

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533366

Luminaire Tested: **GALN-SA8D-735-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-735-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49613 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G4

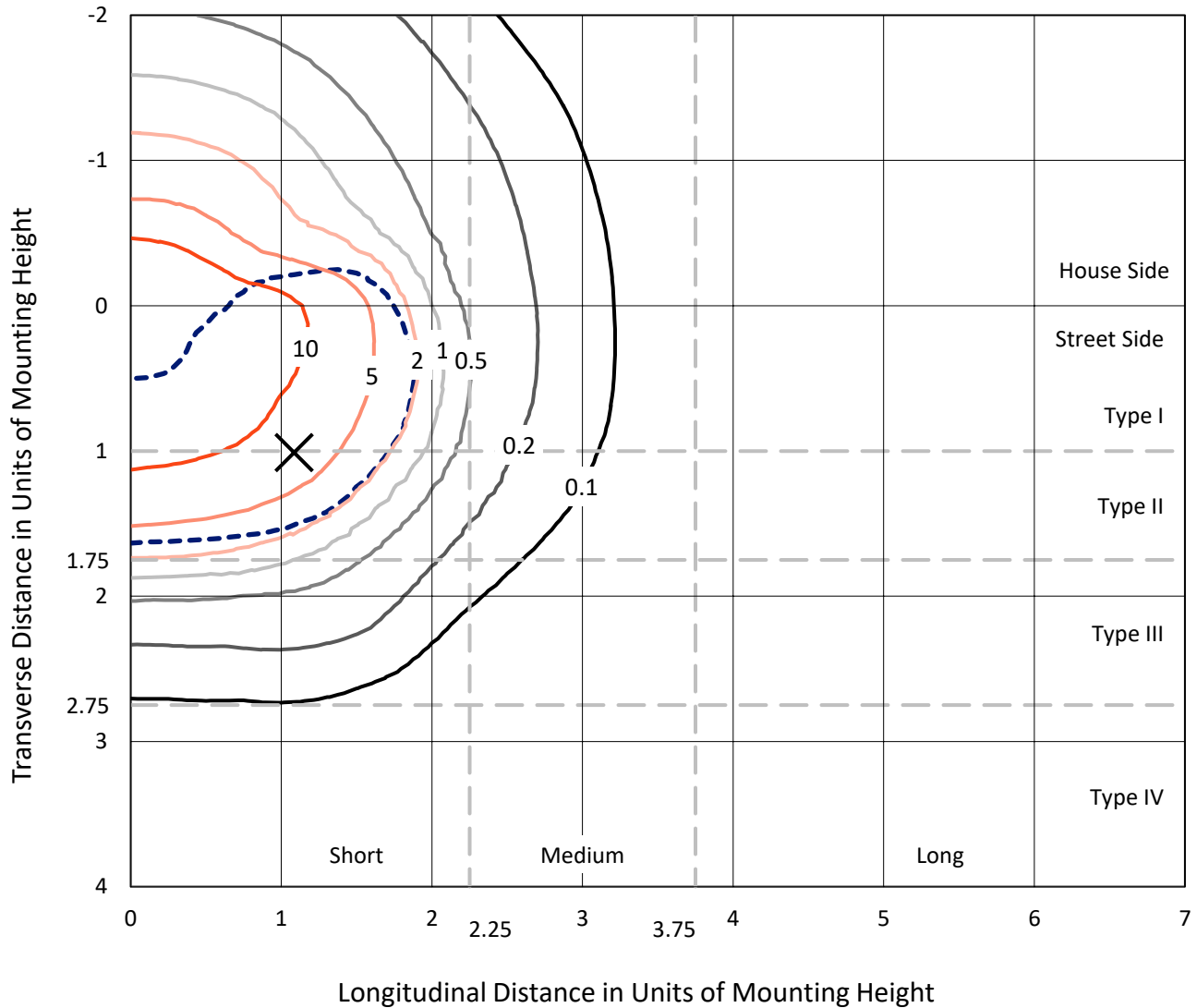
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

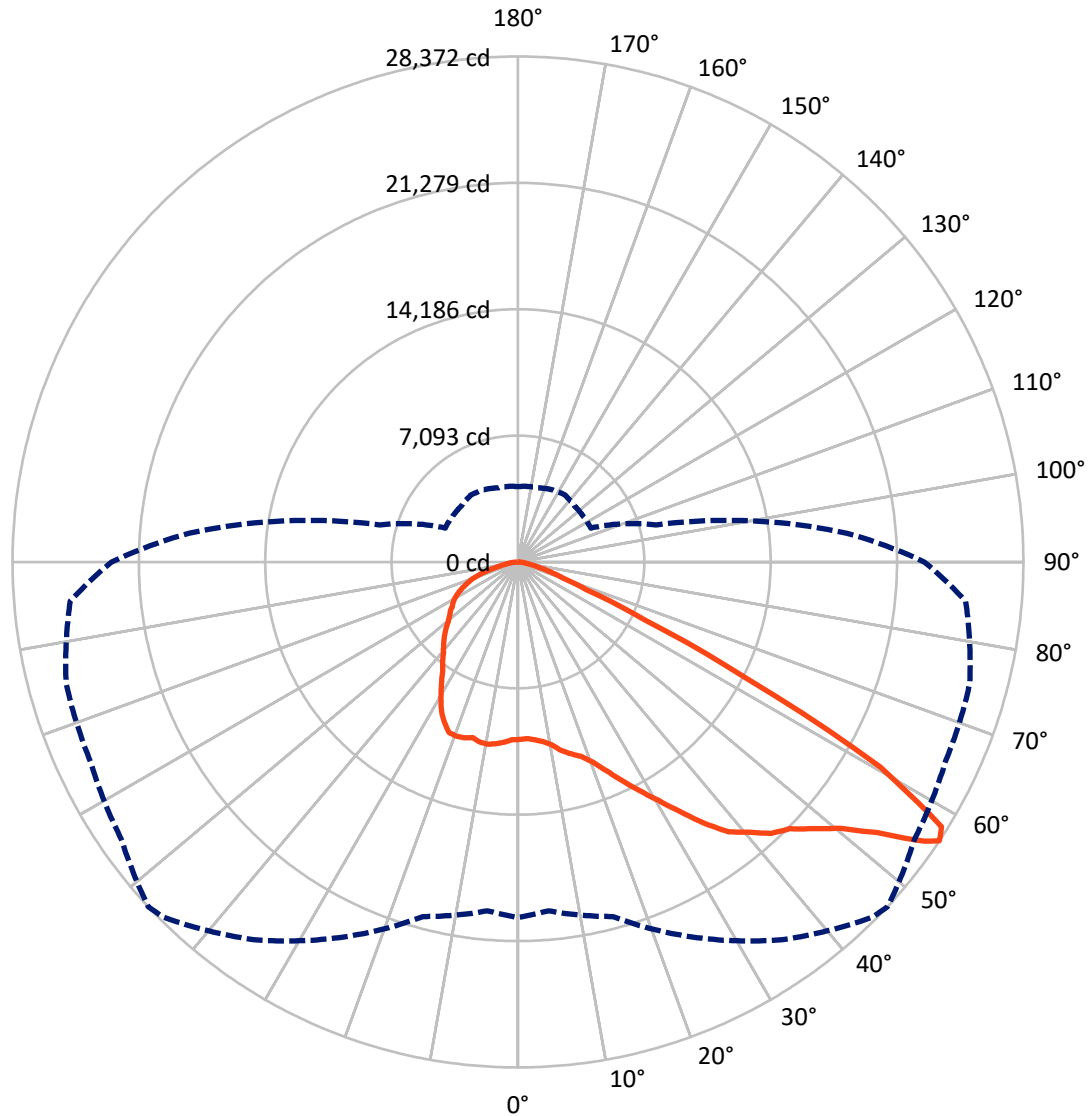
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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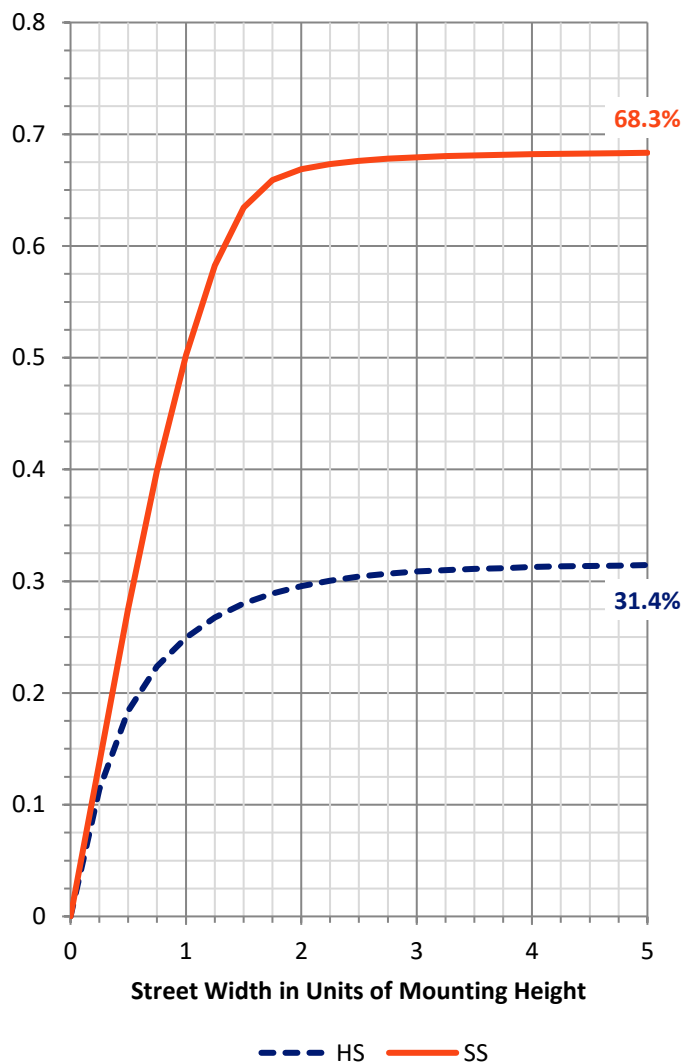
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15721.8	0.0	15721.8
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	33891.2	0.0	33891.2
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	49613.0	0.0	49613.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	971.0	2.0
10°-20°	3063.1	6.2
20°-30°	5414.8	10.9
30°-40°	8132.9	16.4
40°-50°	11161.6	22.5
50°-60°	13297.6	26.8
60°-70°	5690.6	11.5
70°-80°	1610.4	3.2
80°-90°	271.0	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	49613.0	100.0
0°-180°	49613.0	100.0



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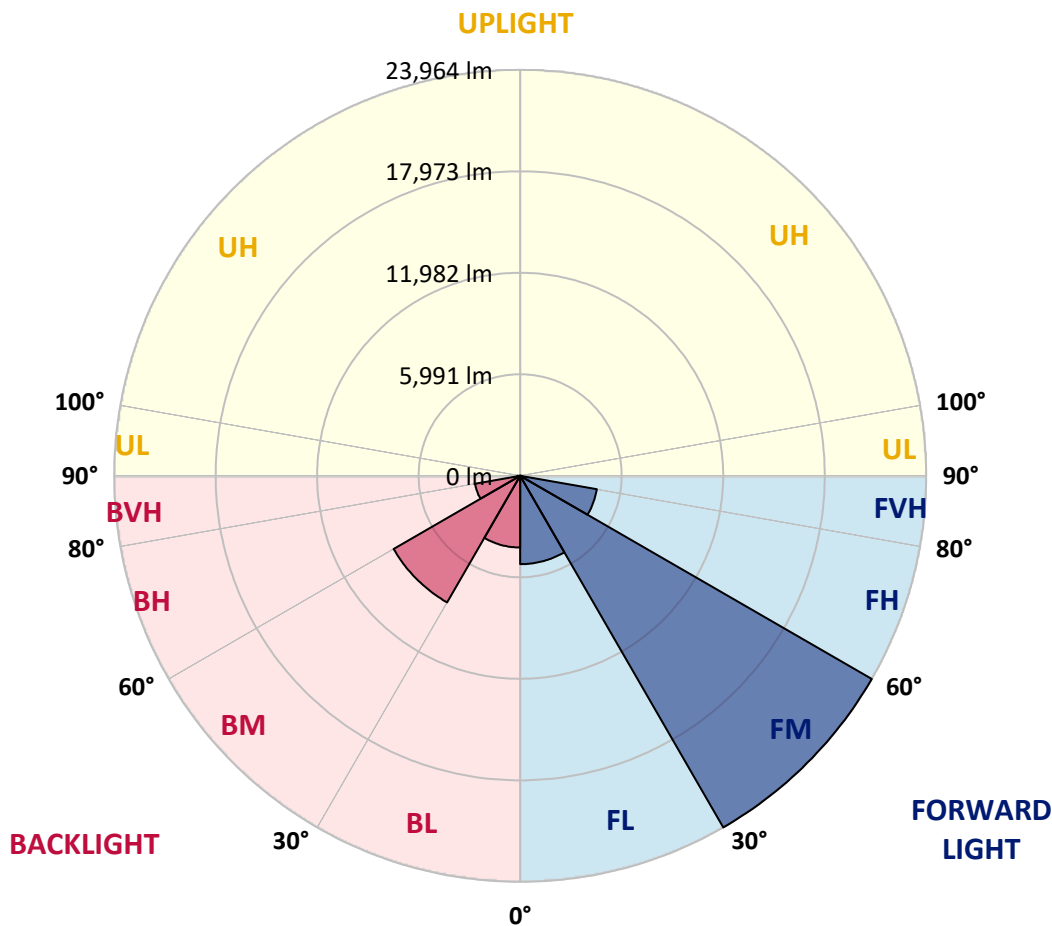
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5216.0	10.5			
FM (30°-60°)	23964.2	48.3			
FH (60°-80°)	4596.0	9.3			G2/5000
FVH (80°-90°)	115.0	0.2			G2/225
BL (0°-30°)	4232.9	8.5	B4/5000		
BM (30°-60°)	8627.8	17.4	B5		
BH (60°-80°)	2705.0	5.5	B4/5000		G4/5000
BVH (80°-90°)	156.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7
2.5°	9927.8	9908.8	9896.1	9997.4	9959.4	9965.7	9927.8	9965.7	9991.1	9934.1	10016.4
5°	9908.8	9965.7	9915.1	9946.8	10029.0	10003.7	10029.0	10104.9	10086.0	10067.0	10041.7
7.5°	10086.0	10092.3	10130.3	10142.9	10168.2	10142.9	10180.9	10250.5	10231.5	10123.9	10136.6
10°	10339.1	10351.7	10358.0	10427.6	10471.9	10478.3	10434.0	10370.7	10364.4	10509.9	10408.7
12.5°	10630.1	10598.5	10674.4	10699.7	10750.3	10807.3	10864.2	10731.4	10813.6	10820.0	10699.7
15°	11054.1	11085.7	10997.1	10997.1	11016.1	11022.4	11180.6	11117.3	11104.7	11035.1	11085.7
17.5°	11686.8	11471.7	11465.4	11376.8	11364.1	11414.7	11471.7	11522.3	11693.1	11553.9	11281.9
20°	12148.7	12199.3	12015.8	11908.3	11927.3	12041.2	11984.2	12212.0	12332.2	12104.4	11838.7
22.5°	12965.0	12794.1	12838.4	12598.0	12616.9	12737.2	12730.8	12965.0	13034.6	12673.9	12287.9
25°	13515.4	13471.2	13509.1	13319.3	13344.6	13439.5	13591.4	13977.4	13863.5	13464.8	12572.7
27.5°	14319.0	14230.5	14198.8	14129.2	14103.9	14357.0	14534.2	14945.5	14863.2	14281.1	13078.9
30°	15141.6	15084.7	15116.3	14831.6	14932.8	15470.6	15521.3	16084.4	16046.4	15021.4	13642.0
32.5°	15711.1	15742.7	15799.7	15641.5	16090.7	16521.0	16691.8	17330.9	17362.5	16293.2	14730.3
35°	16628.6	16521.0	16552.6	16736.1	16944.9	17729.5	18007.9	18431.9	18697.6	17628.3	15774.3
37.5°	17204.4	17318.2	17185.4	17476.4	18020.6	18963.4	19216.5	19653.1	19931.5	18944.4	17198.0
40°	18102.9	17919.4	18014.3	18223.1	18779.9	20007.4	19937.8	20387.1	20475.6	20064.4	18526.8
42.5°	19071.0	18982.4	18849.5	19324.1	19792.3	20684.5	20823.7	20614.9	21064.1	21159.0	20425.0
45°	20228.9	20336.4	20355.4	20368.1	20779.4	21557.6	21367.8	21184.3	21703.2	22392.9	21601.9
47.5°	21304.5	20962.9	21209.6	21551.3	22133.4	22139.8	22361.2	21924.6	22475.1	23088.9	22664.9
50°	21665.2	21500.7	21829.7	22475.1	23373.6	23468.5	23493.8	22873.8	23158.5	23645.7	23031.9
52.5°	21526.0	21469.1	22310.6	23310.4	24626.5	25107.3	25233.9	24468.3	24626.5	24405.0	23841.9
55°	20861.6	21032.5	21880.3	23917.8	25936.2	27423.2	27663.6	26695.5	25689.5	25860.3	25240.2
56°	19950.5	19653.1	20602.2	23228.1	25879.3	28176.2	28372.3	27163.8	26480.4	26258.9	25227.6
57.5°	16925.9	16540.0	17786.5	20899.6	24443.0	27891.4	28037.0	27359.9	26347.5	25898.3	23386.3
60°	9908.8	10098.6	11680.5	14413.9	18855.8	22867.4	23354.6	23848.2	23171.1	21159.0	17406.8
62.5°	4783.6	4663.3	5796.0	8263.7	11490.7	14597.4	14451.9	15837.6	16596.9	15034.0	10990.8
65°	2505.7	2493.0	3163.7	4511.5	6314.8	7668.9	7801.8	8548.4	9592.4	7744.8	5580.8
67.5°	1841.3	1891.9	2227.3	3170.1	4062.2	4144.5	4125.5	4498.8	4600.1	3891.4	3429.5
70°	1442.7	1468.0	1714.7	2410.8	3024.5	2708.2	2651.2	2695.5	2992.9	3119.4	2967.6
72.5°	1044.0	1069.3	1278.1	1626.2	1891.9	1847.6	1885.6	2132.4	2499.3	2632.2	2474.0
75°	696.0	715.0	828.9	993.4	1120.0	1208.5	1278.1	1562.9	1904.6	1980.5	1904.6
77.5°	480.9	499.9	575.8	702.3	715.0	771.9	797.3	930.1	1138.9	1233.9	1183.2
80°	272.1	272.1	310.0	360.7	442.9	518.9	531.5	639.1	734.0	797.3	809.9
82.5°	126.5	132.9	164.5	221.5	291.1	360.7	373.3	442.9	512.5	575.8	594.8
85°	63.3	69.6	94.9	132.9	177.2	215.1	208.8	215.1	227.8	215.1	221.5
87.5°	19.0	19.0	25.3	31.6	25.3	31.6	31.6	38.0	44.3	50.6	56.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7
2.5°	10022.7	10041.7	9915.1	10035.3	9991.1	9984.7	10073.3	10060.7	10092.3	10079.6	10003.7
5°	10029.0	9984.7	10117.6	9997.4	10054.3	10174.6	10092.3	10282.1	10187.2	10250.5	10111.3
7.5°	10225.2	10237.8	10212.5	10263.1	10237.8	10294.8	10250.5	10294.8	10218.8	10225.2	10351.7
10°	10396.0	10358.0	10402.3	10339.1	10383.4	10364.4	10263.1	10231.5	10256.8	10225.2	10307.4
12.5°	10712.4	10642.8	10611.1	10535.2	10484.6	10294.8	10136.6	10048.0	10168.2	10187.2	10149.2
15°	11035.1	11041.4	10895.9	10725.0	10408.7	10123.9	10161.9	10193.5	10193.5	10244.2	10149.2
17.5°	11237.6	11237.6	11104.7	10763.0	10440.3	10275.8	10237.8	10136.6	10048.0	10035.3	10029.0
20°	11591.9	11484.3	11180.6	10756.7	10427.6	10351.7	10067.0	9826.5	9643.0	9579.8	9573.4
22.5°	11996.9	11724.8	11300.8	10769.3	10408.7	10301.1	9769.6	9408.9	9079.9	8940.7	8959.7
25°	12370.2	11933.6	11370.4	10712.4	10339.1	9820.2	9225.4	8725.6	8383.9	8270.0	8213.0
27.5°	12629.6	12155.0	11370.4	10763.0	10079.6	9282.4	8674.9	8035.9	7738.5	7662.6	7675.2
30°	12977.6	12433.5	11566.6	10655.4	9560.8	8586.4	7858.7	7441.1	7263.9	7200.6	7244.9
32.5°	13793.9	13161.1	11838.7	10396.0	8947.0	7890.3	7301.9	7067.8	6808.3	6681.8	6637.5
35°	14679.7	13850.8	12104.4	9959.4	8257.3	7257.6	6890.6	6675.5	6365.4	6226.2	6251.5
37.5°	15932.5	14736.6	12123.4	9238.1	7510.7	6903.3	6567.9	6232.5	5979.4	5764.3	5701.0
40°	17622.0	15945.2	12079.1	8478.8	6909.6	6485.6	6238.9	5821.3	5536.5	5384.7	5416.3
42.5°	19108.9	17362.5	11895.6	7618.3	6365.4	6200.9	5922.5	5511.2	5232.8	5074.6	5062.0
45°	20361.8	18406.6	11547.6	6884.3	5909.8	5884.5	5561.8	5245.5	5024.0	4878.5	4941.7
47.5°	21519.7	19248.1	11022.4	6150.3	5492.2	5542.9	5232.8	5036.7	4897.5	4764.6	4758.2
50°	21937.3	19235.5	10560.5	5542.9	5156.9	5131.6	5118.9	4910.1	4764.6	4650.7	4701.3
52.5°	22633.3	19450.6	10060.7	5125.2	4853.2	4859.5	4903.8	4751.9	4587.4	4517.8	4581.1
55°	23633.1	19482.2	8959.7	4638.0	4600.1	4644.4	4644.4	4543.1	4403.9	4347.0	4315.3
56°	22816.8	18539.4	8035.9	4511.5	4473.5	4473.5	4593.7	4479.8	4309.0	4264.7	4226.7
57.5°	21045.1	16242.6	6726.1	4359.6	4302.7	4391.3	4454.5	4334.3	4176.1	4112.8	4150.8
60°	14515.2	10990.8	5055.6	4030.6	4030.6	4176.1	4226.7	4049.6	3980.0	3973.6	3923.0
62.5°	8472.5	6403.4	3954.7	3733.2	3745.9	3866.1	3904.0	3802.8	3714.2	3821.8	3872.4
65°	4492.5	3821.8	3391.5	3416.8	3423.2	3518.1	3682.6	3676.3	3669.9	3701.6	3707.9
67.5°	3252.3	3176.4	3081.5	3056.2	3068.8	3138.4	3302.9	3429.5	3423.2	3347.2	3290.3
70°	2898.0	2790.4	2733.5	2739.8	2689.2	2771.4	2904.3	2986.6	2841.0	2752.4	2714.5
72.5°	2410.8	2379.1	2341.2	2347.5	2246.2	2227.3	2075.4	2075.4	2037.4	2012.1	2056.4
75°	1841.3	1828.6	1847.6	1816.0	1708.4	1594.5	1505.9	1423.7	1297.1	1246.5	1221.2
77.5°	1164.3	1202.2	1246.5	1176.9	1132.6	1050.4	961.8	879.5	778.3	721.3	721.3
80°	790.9	822.6	854.2	841.6	790.9	715.0	645.4	556.8	487.2	442.9	436.6
82.5°	601.1	626.4	670.7	620.1	569.5	506.2	449.2	386.0	322.7	272.1	272.1
85°	215.1	246.8	272.1	297.4	316.4	322.7	278.4	227.8	183.5	145.5	139.2
87.5°	56.9	63.3	69.6	63.3	63.3	63.3	69.6	63.3	56.9	44.3	44.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)