

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: P533389

Luminaire Tested: **GALN-SA8D-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533389  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-740-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

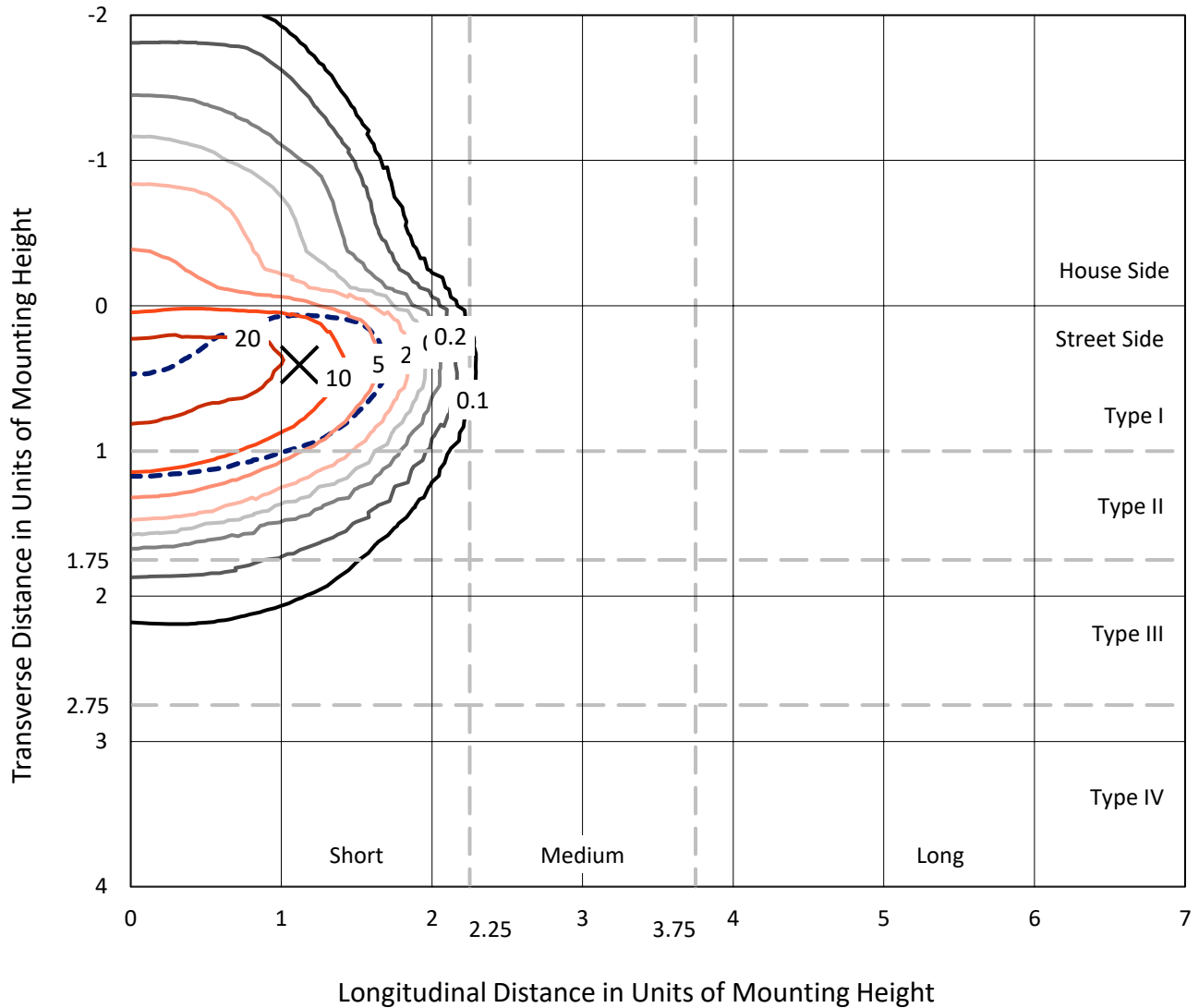
Lumens per Lamp: N/A  
Luminaire Lumens: 41314 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

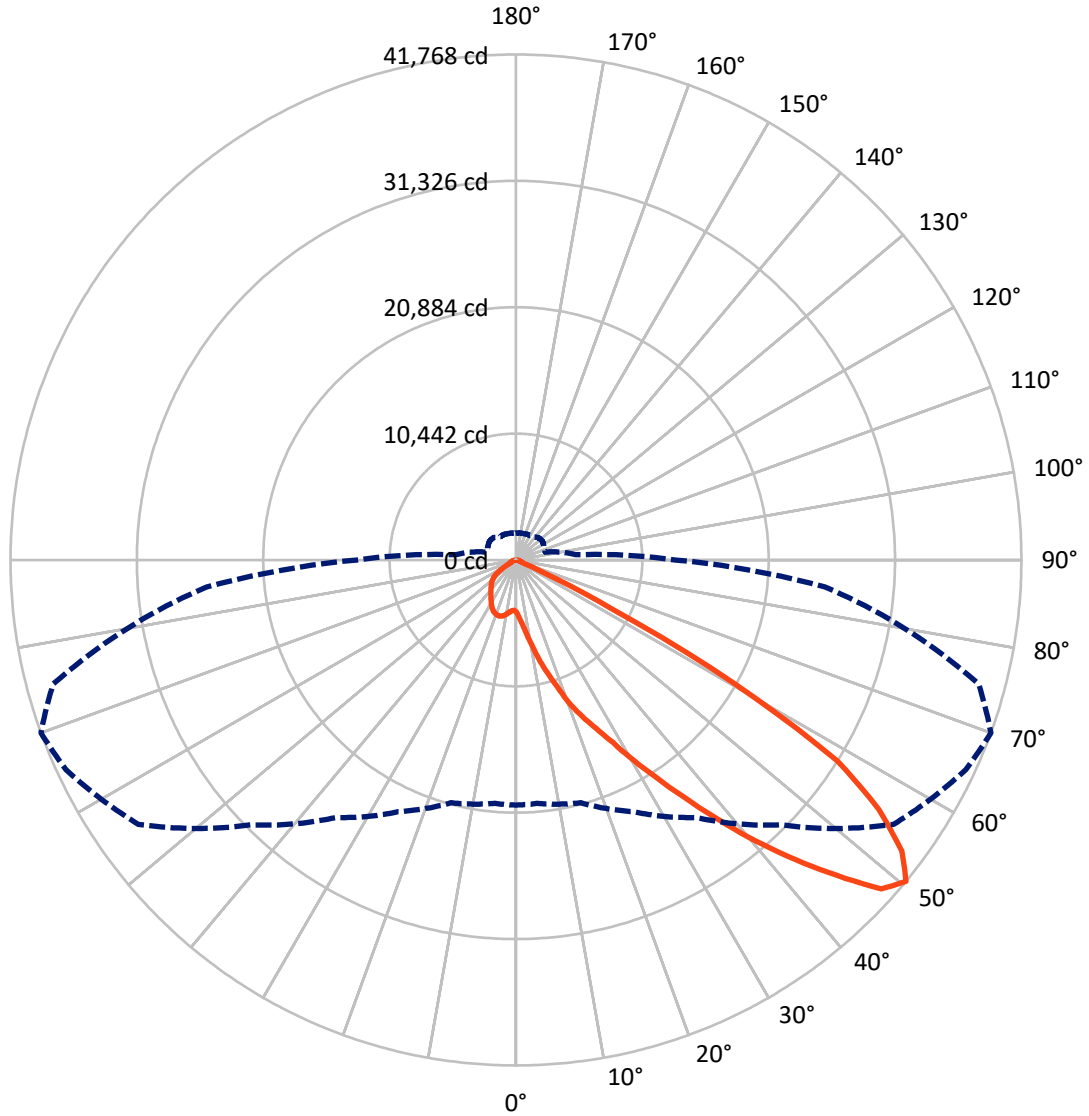
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.5 fc  
 Type I - Short - N/A

REPORT NUMBER: P533389  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GALN-SA8D-740-U-T2R-GRSBK

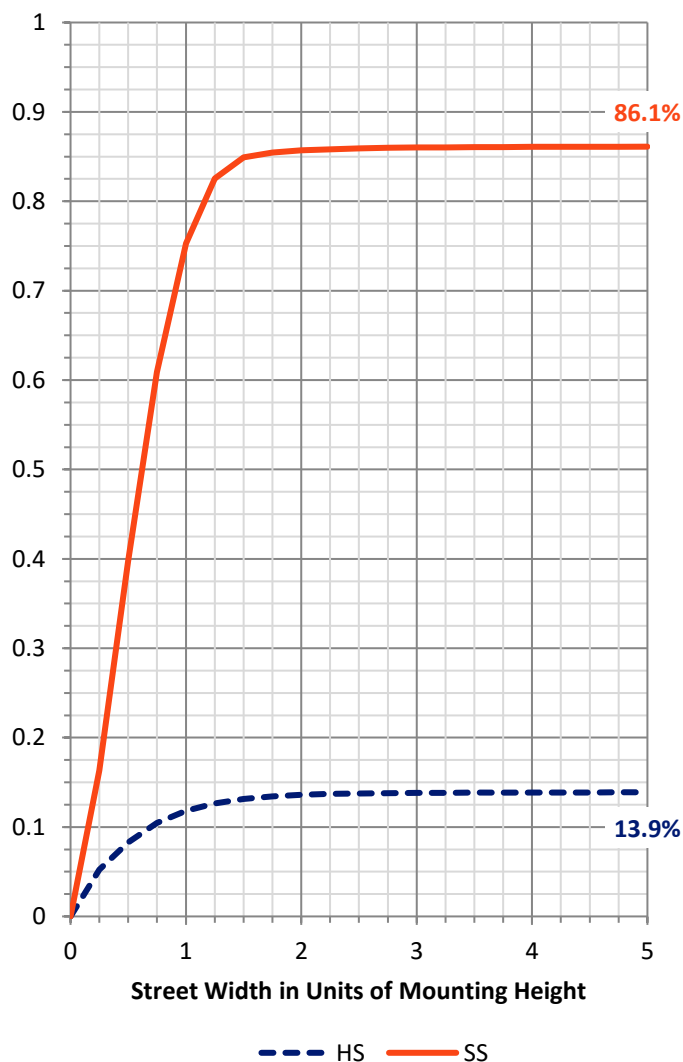
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5769.8	0.0	5769.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	35544.2	0.0	35544.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	41314.0	0.0	41314.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.5	1.3
10°-20°	2407.1	5.8
20°-30°	5049.7	12.2
30°-40°	8703.9	21.1
40°-50°	12720.7	30.8
50°-60°	9907.3	24.0
60°-70°	1678.6	4.1
70°-80°	230.6	0.6
80°-90°	59.7	0.1
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°	41314.0	100.0
0°-180°	41314.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P533389

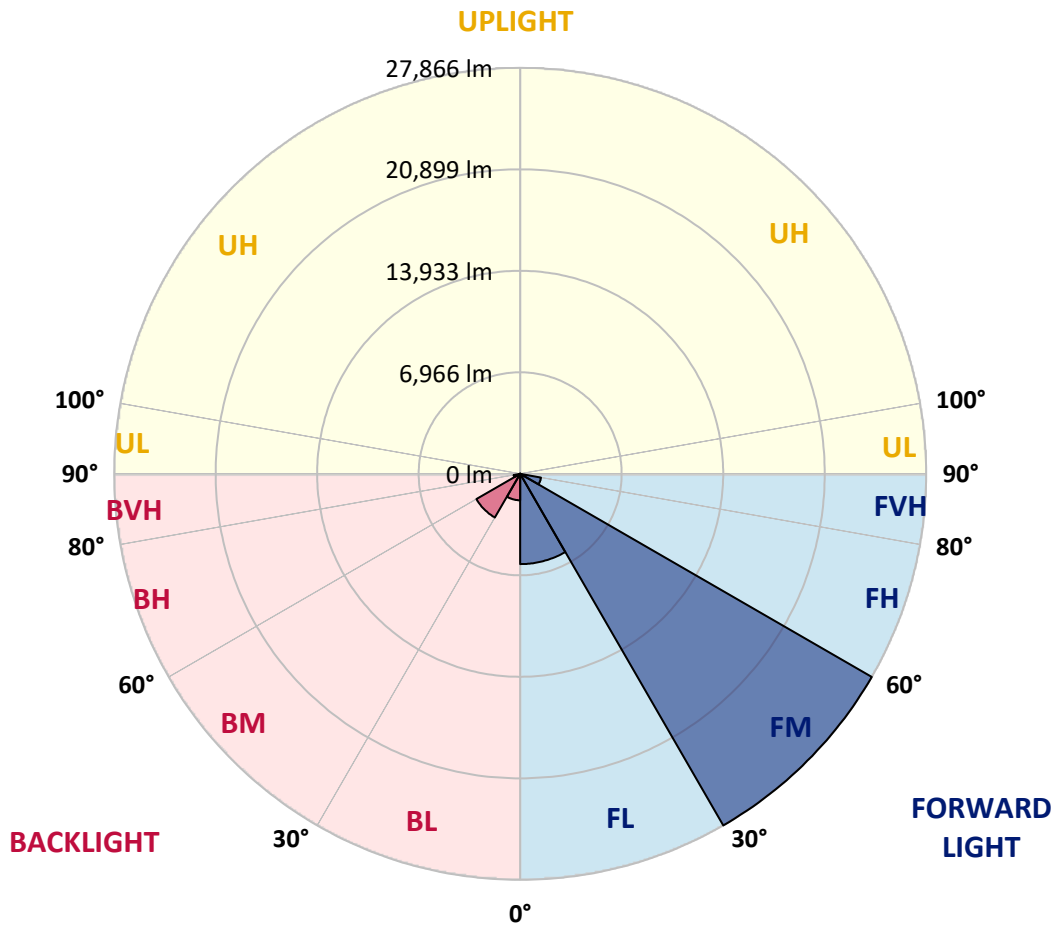
CATALOG NUMBER: GALN-SA8D-740-U-T2R-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6197.6	15.0			
FM (30°-60°)	27865.6	67.4			
FH (60°-80°)	1453.4	3.5			G1/1800
FVH (80°-90°)	27.6	0.1			G1/100
BL (0°-30°)	1815.6	4.4	B3/2500		
BM (30°-60°)	3466.3	8.4	B3/5000		
BH (60°-80°)	455.8	1.1	B1/500		G1/500
BVH (80°-90°)	32.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





REPORT NUMBER: P533389

CATALOG NUMBER: GALN-SA8D-740-U-T2R-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4279.3	4279.3	4279.3	4279.3	4279.3	4279.3	4279.3	4279.3	4279.3	4279.3	4279.3
2.5°	5603.9	5563.1	5474.8	5311.8	5243.9	5080.8	4985.7	4802.3	4686.9	4557.8	4415.2
5°	7893.0	7682.4	7553.3	7369.9	6833.3	6500.5	5950.3	5481.6	5264.2	5026.5	4700.5
7.5°	10256.8	10120.9	9944.3	9550.3	9183.5	8490.7	7546.5	6514.1	6072.6	5665.0	5019.7
10°	12213.0	11832.7	11812.3	11520.2	11119.4	10290.7	9156.4	7872.6	7084.6	6486.9	5474.8
12.5°	13578.3	13231.9	13388.1	13354.2	12980.6	12219.8	10908.9	9210.7	8388.8	7458.2	5943.5
15°	14821.4	14678.7	14631.2	14590.4	14441.0	13877.2	12702.1	10840.9	9652.2	8531.5	6473.3
17.5°	16037.2	15670.5	15847.1	15881.0	15867.4	15358.0	14257.6	12389.6	10990.4	9665.8	7030.3
20°	17117.3	17151.2	16913.5	16865.9	16825.2	16804.8	15731.6	13924.8	12634.2	10854.5	7757.1
22.5°	18503.0	18265.2	18475.8	18339.9	18075.0	17912.0	17090.1	15283.3	14060.6	12287.8	8497.5
25°	20140.0	20330.2	19834.3	19780.0	19487.9	18924.1	18183.7	16804.8	15432.7	13619.1	9299.0
27.5°	22157.4	21824.5	21695.5	21396.6	20866.8	20629.0	19759.6	18373.9	17090.1	15018.4	10073.4
30°	23889.5	23801.2	23155.9	22802.6	22340.8	22334.0	21118.1	20500.0	19250.1	17212.4	11139.8
32.5°	25302.3	24915.1	24677.4	24432.9	24059.3	24161.2	23135.5	22809.4	21552.8	19250.1	12396.4
35°	26246.5	25968.0	25825.3	25451.7	25343.1	25798.2	25370.2	25234.4	24201.9	22116.6	13870.4
37.5°	26545.3	26633.7	26606.5	26137.8	26368.7	27598.2	28148.4	27795.2	27251.8	25139.3	15466.7
40°	26810.3	26871.4	26735.5	27285.7	27944.6	29343.9	31334.1	30749.9	30546.2	28202.7	17687.8
42.5°	26959.7	26912.1	26912.1	27863.1	28861.6	31673.7	34411.1	34024.0	33867.7	31463.2	20255.4
45°	26314.4	25852.5	26348.4	27639.0	29649.6	32821.7	36870.1	37406.7	37182.5	35341.7	23257.7
47.5°	23903.0	24188.3	24466.8	26192.1	28691.8	32468.5	38378.0	40205.2	40619.5	38602.2	25227.6
50°	20255.4	20194.3	20771.7	22945.3	25981.6	30946.9	38085.9	41013.5	41767.5	39580.3	25641.9
52.5°	14733.1	15181.4	15806.3	17966.3	21566.4	27007.2	34316.0	38928.2	39933.5	38378.0	25370.2
55°	8579.0	8083.2	9489.2	11316.4	14712.7	20370.9	29011.1	34506.2	36367.4	36190.8	23998.1
57.5°	3437.0	3328.4	3810.6	5135.2	7675.6	12627.4	21097.7	28352.2	31334.1	33147.7	21090.9
60°	1507.9	1474.0	1732.1	2092.1	3138.2	5821.2	11540.6	17633.5	20744.5	23162.7	14515.7
62.5°	1086.8	1073.2	1202.3	1331.3	1657.4	2533.6	4849.9	7105.0	8857.5	10698.3	6500.5
65°	876.2	910.2	998.5	1066.4	1222.7	1406.1	1711.7	1976.6	2424.9	2513.2	1433.2
67.5°	713.2	740.4	821.9	896.6	923.8	760.8	787.9	692.8	692.8	618.1	495.9
70°	523.0	529.8	624.9	713.2	570.6	305.7	536.6	536.6	482.3	461.9	421.1
72.5°	387.2	394.0	468.7	441.5	224.2	190.2	394.0	434.7	394.0	373.6	339.6
75°	285.3	292.1	244.5	101.9	95.1	122.3	230.9	298.9	285.3	278.5	258.1
77.5°	54.3	40.8	34.0	47.5	67.9	101.9	149.4	183.4	190.2	203.8	190.2
80°	6.8	6.8	20.4	40.8	74.7	108.7	156.2	176.6	183.4	190.2	176.6
82.5°	0.0	6.8	20.4	40.8	74.7	101.9	135.9	156.2	169.8	176.6	169.8
85°	0.0	6.8	13.6	34.0	61.1	74.7	67.9	47.5	40.8	47.5	34.0
87.5°	0.0	0.0	6.8	6.8	13.6	13.6	13.6	13.6	13.6	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P533389

CATALOG NUMBER: GALN-SA8D-740-U-T2R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4279.3	4279.3	4279.3	4279.3	4279.3	4279.3	4279.3	4279.3	4279.3	4279.3	4279.3
2.5°	4333.7	4306.5	4211.4	4109.5	4021.2	4062.0	4021.2	3987.2	4000.8	3987.2	3973.7
5°	4571.4	4449.1	4245.4	4157.1	4082.3	4075.5	4055.2	4048.4	4055.2	4055.2	3994.0
7.5°	4795.6	4598.6	4381.2	4286.1	4197.8	4204.6	4157.1	4157.1	4150.3	4116.3	4102.7
10°	5135.2	4870.3	4591.8	4422.0	4313.3	4292.9	4245.4	4197.8	4197.8	4197.8	4129.9
12.5°	5508.8	5175.9	4795.6	4598.6	4469.5	4367.6	4292.9	4279.3	4204.6	4191.0	4157.1
15°	5834.8	5413.7	4931.4	4659.7	4496.7	4360.8	4245.4	4170.6	4136.7	4116.3	4089.1
17.5°	6154.1	5617.5	5006.1	4659.7	4483.1	4326.9	4204.6	4136.7	4055.2	4068.7	4014.4
20°	6582.0	5834.8	5026.5	4571.4	4354.0	4204.6	4041.6	4007.6	3960.1	3919.3	3932.9
22.5°	6996.3	5991.0	4965.4	4462.7	4150.3	3973.7	3892.1	3851.4	3831.0	3797.0	3749.5
25°	7369.9	6160.9	4870.3	4265.7	3932.9	3803.8	3729.1	3722.3	3674.8	3674.8	3586.5
27.5°	7750.3	6222.0	4707.2	4034.8	3742.7	3668.0	3634.0	3620.4	3600.1	3552.5	3491.4
30°	8185.0	6242.4	4469.5	3797.0	3572.9	3491.4	3538.9	3572.9	3484.6	3396.3	3423.5
32.5°	8545.0	6194.8	4184.2	3572.9	3450.6	3409.9	3505.0	3538.9	3437.0	3341.9	3294.4
35°	8979.8	6079.3	3905.7	3396.3	3328.4	3409.9	3491.4	3491.4	3287.6	3172.1	3145.0
37.5°	9638.7	5950.3	3647.6	3246.8	3199.3	3369.1	3477.8	3403.1	3083.8	2941.2	2907.2
40°	10345.1	5868.8	3396.3	3097.4	3131.4	3301.2	3362.3	3131.4	2805.3	2717.0	2689.9
42.5°	11370.8	5705.8	3172.1	2968.4	3070.2	3206.1	3206.1	2791.7	2669.5	2621.9	2615.1
45°	12647.8	5590.3	2975.1	2859.7	2981.9	3015.9	2907.2	2615.1	2526.8	2513.2	2520.0
47.5°	13272.7	5366.1	2771.4	2730.6	2818.9	2825.7	2540.4	2472.5	2397.8	2377.4	2363.8
50°	13177.6	4965.4	2506.5	2560.8	2683.1	2615.1	2316.3	2329.9	2261.9	2255.1	2221.2
52.5°	12511.9	4333.7	2241.5	2370.6	2506.5	2309.5	2132.9	2119.3	2119.3	2031.0	1997.0
55°	11092.3	3491.4	1922.3	2085.3	2248.3	1942.7	1895.1	1881.5	1847.6	1766.1	1745.7
57.5°	8782.8	2560.8	1446.8	1623.4	1908.7	1650.6	1643.8	1582.7	1494.4	1433.2	1433.2
60°	5223.5	1474.0	910.2	991.7	1263.4	1338.1	1487.6	1460.4	1311.0	1215.9	1188.7
62.5°	2384.2	760.8	577.4	591.0	679.3	869.4	1168.3	1351.7	1141.2	978.1	964.5
65°	801.5	563.8	475.5	455.1	468.7	523.0	699.6	957.8	910.2	754.0	726.8
67.5°	489.1	502.6	448.3	414.3	414.3	407.6	400.8	434.7	536.6	523.0	529.8
70°	421.1	461.9	414.3	373.6	360.0	339.6	285.3	237.7	203.8	237.7	251.3
72.5°	339.6	366.8	353.2	319.3	285.3	258.1	203.8	156.2	115.5	101.9	101.9
75°	251.3	271.7	285.3	244.5	217.4	183.4	149.4	101.9	61.1	40.8	40.8
77.5°	183.4	203.8	210.6	190.2	163.0	129.1	95.1	67.9	34.0	13.6	13.6
80°	156.2	183.4	203.8	190.2	169.8	122.3	88.3	47.5	27.2	6.8	6.8
82.5°	149.4	183.4	203.8	183.4	163.0	115.5	88.3	54.3	20.4	6.8	6.8
85°	34.0	47.5	61.1	74.7	88.3	88.3	67.9	40.8	20.4	6.8	6.8
87.5°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	6.8	6.8	0.0
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)