

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: P533141

Luminaire Tested: **GALN-SA8C-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-740-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42350 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

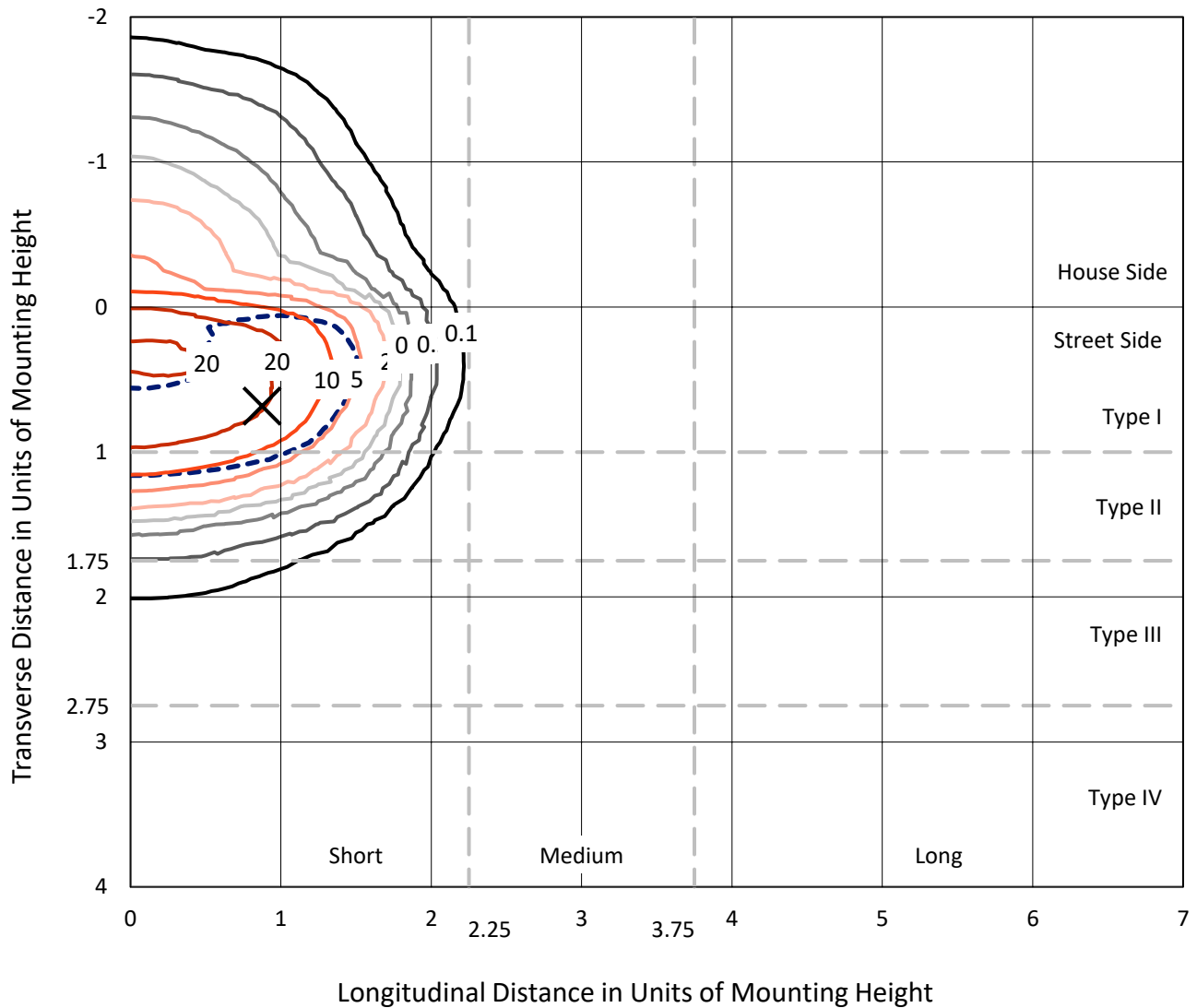
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

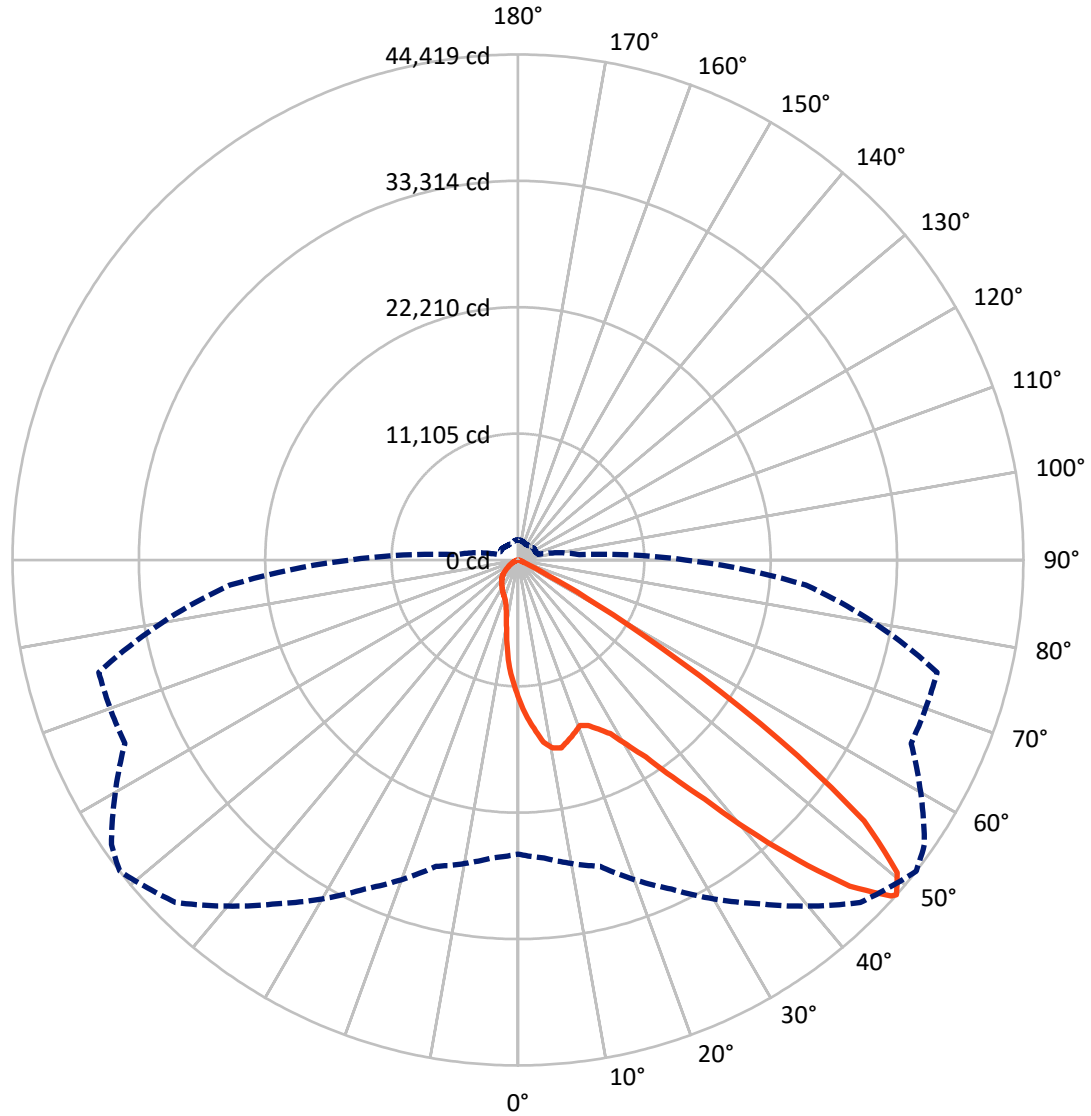
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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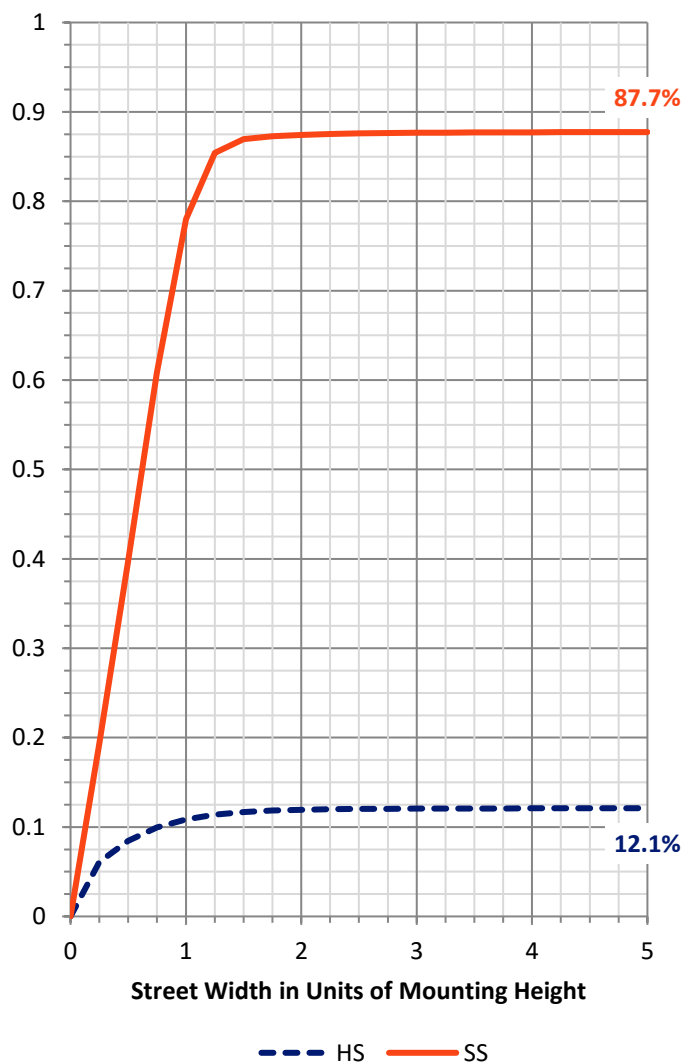
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5156.4	0.0	5156.4
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	37193.5	0.0	37193.5
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	42350.0	0.0	42350.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1119.4	2.6
10°-20°	2925.4	6.9
20°-30°	4994.8	11.8
30°-40°	9197.9	21.7
40°-50°	14284.4	33.7
50°-60°	8596.8	20.3
60°-70°	994.3	2.3
70°-80°	192.5	0.5
80°-90°	44.5	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°	42350.0	100.0
0°-180°	42350.0	100.0

**Coefficient of Utilization**



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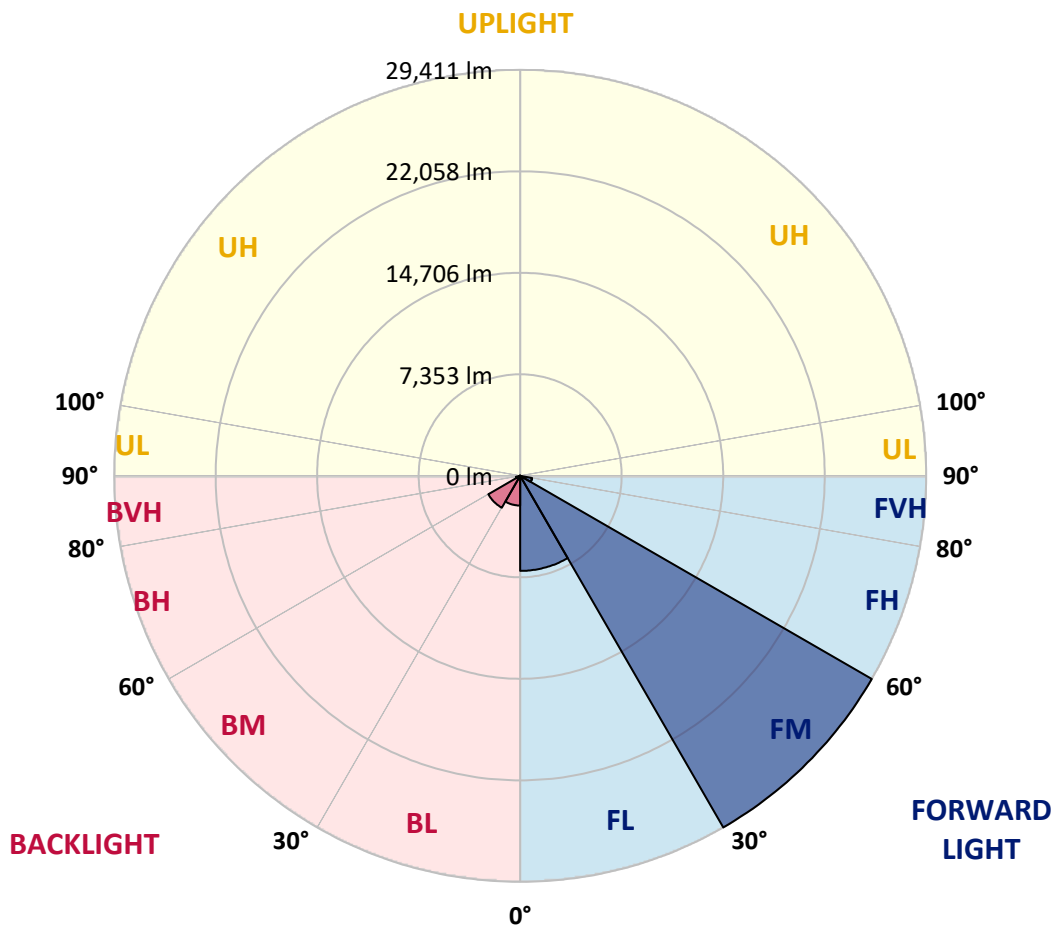
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6885.6	16.3			
FM (30°-60°)	29411.2	69.4			
FH (60°-80°)	875.6	2.1			G1/1800
FVH (80°-90°)	21.2	0.0			G1/100
BL (0°-30°)	2154.0	5.1	B3/2500		
BM (30°-60°)	2667.9	6.3	B3/5000		
BH (60°-80°)	311.2	0.7	B1/500		G1/500
BVH (80°-90°)	23.3	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	12230.0	12230.0	12230.0	12230.0	12230.0	12230.0	12230.0	12230.0	12230.0	12230.0	12230.0
2.5°	14822.9	14483.4	14514.2	14292.0	14162.3	13952.4	13668.4	13612.9	13304.2	12884.4	12458.4
5°	16156.4	16076.2	16181.1	15860.1	15872.4	15526.7	14859.9	14872.3	14162.3	13477.1	12816.5
7.5°	16242.8	16057.6	16162.6	16446.6	16613.3	16551.5	16174.9	15847.7	15174.8	14168.5	13205.4
10°	14545.1	14897.0	15008.1	15477.3	16144.1	16847.9	16804.6	16823.2	16261.4	14946.4	13538.8
12.5°	13526.4	13291.8	13668.4	13952.4	14958.7	16323.1	16946.6	17082.5	17125.7	15699.6	13872.2
15°	13063.4	13063.4	13125.2	13205.4	13933.9	15193.3	16465.1	16860.2	17792.4	16687.3	14396.9
17.5°	13353.6	13341.2	13427.7	13261.0	13532.6	14501.9	16020.6	16471.3	18539.4	17656.6	14810.6
20°	14236.4	14279.6	14224.1	13742.5	13761.0	14489.5	15526.7	16236.7	19045.7	18496.2	15360.0
22.5°	15465.0	15489.7	15174.8	14650.0	14495.7	14853.8	15810.7	16354.0	19453.1	19502.5	15526.7
25°	16884.9	16786.1	16724.4	15983.5	15514.4	15823.0	16452.7	16767.6	19706.3	20366.8	16002.1
27.5°	18854.3	18656.7	18280.1	17619.6	17273.8	16835.5	17286.2	17804.8	20428.6	21576.9	16520.7
30°	21762.1	21589.2	20854.5	20002.6	19095.1	18662.9	18804.9	19088.9	21731.2	22978.3	17205.9
32.5°	26139.2	25774.9	24713.1	23089.4	21854.7	20663.2	20626.1	20928.6	22898.0	24916.8	18020.8
35°	30960.8	30849.7	29287.7	27614.7	25225.5	23385.7	23416.6	23577.1	25132.9	27460.3	19088.9
37.5°	34164.9	34776.1	33782.1	31985.6	29979.2	27349.2	26682.5	26738.0	28201.2	30473.1	21015.1
40°	36640.5	36122.0	36239.3	35819.4	34448.9	32658.5	31183.0	30892.9	31751.0	33806.8	22928.9
42.5°	35560.2	35584.8	36307.2	37301.1	37640.7	37511.0	36004.7	35455.2	34788.4	36535.6	24750.1
45°	32510.4	33146.3	34084.7	36714.6	39023.6	41190.5	40894.2	39980.5	36887.5	38696.4	25799.6
47.5°	27645.6	27620.9	29158.1	32578.3	37708.6	42783.3	44129.2	43487.1	38375.3	38455.6	25583.6
48°	25849.0	26293.5	27880.1	31905.4	36875.1	42548.7	44419.3	43610.6	38122.2	38134.6	25398.3
50°	19107.4	19027.2	21002.7	25941.6	32936.4	39980.5	43196.9	43826.7	38116.0	36510.9	24101.9
52.5°	10093.9	10439.6	11878.1	16310.8	23287.0	32720.3	38103.7	39085.3	36770.2	33856.2	22237.4
55°	4290.7	3877.0	4982.1	7365.1	13100.5	21860.9	27954.2	30139.7	31090.4	29960.7	19453.1
57.5°	1531.1	1673.1	1926.2	2772.0	5506.9	11964.5	16668.8	18366.6	21539.8	21984.3	13254.8
60°	981.6	1000.1	1080.4	1271.8	2068.2	4611.7	7908.4	9260.5	10698.9	11044.6	6186.0
62.5°	759.4	765.5	802.6	833.4	981.6	1790.4	2969.5	3519.0	3654.8	3142.4	1623.7
65°	635.9	642.1	654.4	654.4	697.6	839.6	1037.2	1142.1	1111.3	1098.9	919.9
67.5°	487.7	500.1	524.8	524.8	549.5	512.4	574.1	611.2	691.4	839.6	784.1
70°	382.8	388.9	407.5	419.8	419.8	370.4	413.6	450.7	506.2	623.5	617.4
72.5°	296.3	308.7	321.0	321.0	302.5	253.1	296.3	327.2	364.2	432.2	419.8
75°	228.4	228.4	234.6	191.4	148.2	129.6	179.0	216.1	271.6	284.0	234.6
77.5°	61.7	67.9	61.7	55.6	61.7	92.6	117.3	135.8	172.9	172.9	154.3
80°	0.0	6.2	18.5	37.0	61.7	86.4	105.0	117.3	135.8	148.2	142.0
82.5°	0.0	6.2	18.5	37.0	55.6	67.9	92.6	98.8	111.1	129.6	129.6
85°	0.0	6.2	12.3	24.7	37.0	43.2	43.2	37.0	37.0	30.9	24.7
87.5°	0.0	0.0	6.2	12.3	12.3	18.5	18.5	18.5	18.5	18.5	18.5
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°	12230.0	12230.0	12230.0	12230.0	12230.0	12230.0	12230.0	12230.0	12230.0	12230.0	12230.0
2.5°	12291.7	12100.3	11810.2	11353.3	10915.0	10631.0	10359.4	10056.9	9890.2	9877.8	9785.2
5°	12439.9	12007.7	11316.3	10532.2	9692.6	8970.3	8241.8	7766.4	7340.5	7105.9	7062.6
7.5°	12520.1	11958.3	10840.9	9525.9	8093.6	6914.5	6099.6	5500.7	5266.1	5093.3	5087.1
10°	12686.8	11871.9	10130.9	8192.4	6420.6	5229.1	4667.3	4395.6	4266.0	4216.6	4142.5
12.5°	12810.3	11711.4	9402.5	6821.9	5074.7	4333.9	4086.9	4025.2	4031.4	4056.1	4025.2
15°	12983.2	11569.4	8420.8	5599.5	4259.8	3901.7	3901.7	3914.1	4000.5	4012.9	4006.7
17.5°	12970.8	11291.6	7408.4	4611.7	3765.9	3716.5	3735.1	3852.4	3907.9	3926.4	3883.2
20°	13119.0	11032.3	6365.0	3938.8	3488.1	3562.2	3685.7	3716.5	3784.4	3796.8	3747.4
22.5°	13075.8	10384.1	5395.8	3407.8	3278.2	3420.2	3543.7	3580.7	3562.2	3525.1	3519.0
25°	12995.5	9828.4	4506.8	3056.0	3123.9	3278.2	3395.5	3327.6	3290.5	3296.7	3302.9
27.5°	12853.5	9124.6	3772.1	2809.0	2914.0	3142.4	3136.2	3111.5	3148.6	3117.7	3148.6
30°	12828.8	8420.8	3167.1	2586.8	2759.6	2926.3	2938.7	2981.9	3025.1	2969.5	3025.1
32.5°	12865.9	7649.1	2734.9	2450.9	2667.0	2673.2	2809.0	2852.2	2821.4	2697.9	2710.2
35°	13149.8	7056.5	2420.1	2376.9	2518.8	2525.0	2654.7	2599.1	2463.3	2389.2	2432.4
37.5°	13748.7	6562.6	2271.9	2308.9	2321.3	2401.5	2407.7	2296.6	2308.9	2302.8	2327.5
40°	14514.2	6186.0	2166.9	2247.2	2234.9	2290.4	2068.2	2129.9	2185.5	2204.0	2216.3
42.5°	15039.0	5914.3	2099.0	2148.4	2123.7	2025.0	1901.5	1963.2	2006.4	2074.3	2086.7
45°	15273.6	5698.3	2018.8	1975.6	1975.6	1796.5	1747.1	1759.5	1858.3	1932.3	1920.0
47.5°	14890.8	5488.4	1876.8	1747.1	1790.4	1642.2	1586.6	1586.6	1691.6	1784.2	1765.7
48°	14742.6	5401.9	1883.0	1697.8	1728.6	1617.5	1561.9	1549.6	1666.9	1753.3	1753.3
50°	14008.0	5080.9	1722.4	1561.9	1500.2	1487.8	1450.8	1463.2	1537.2	1617.5	1617.5
52.5°	12575.7	4389.5	1457.0	1339.7	1228.6	1302.6	1321.2	1296.5	1333.5	1407.6	1401.4
55°	10495.2	3370.8	1166.8	1111.3	1024.8	1105.1	1142.1	1111.3	1074.2	1129.8	1129.8
57.5°	6723.1	1815.0	932.2	944.6	858.1	938.4	969.3	895.2	827.3	870.5	864.3
60°	3031.3	1086.6	765.5	747.0	691.4	784.1	833.4	747.0	654.4	685.3	716.1
62.5°	1135.9	771.7	580.3	568.0	555.6	642.1	666.8	598.8	506.2	524.8	530.9
65°	833.4	679.1	463.0	419.8	444.5	506.2	493.9	426.0	364.2	364.2	376.6
67.5°	710.0	592.7	376.6	327.2	327.2	333.4	308.7	271.6	253.1	265.5	277.8
70°	555.6	469.2	296.3	253.1	228.4	203.7	179.0	172.9	154.3	172.9	166.7
72.5°	358.1	314.9	228.4	191.4	172.9	142.0	117.3	111.1	92.6	86.4	86.4
75°	191.4	191.4	179.0	154.3	135.8	111.1	92.6	74.1	49.4	37.0	37.0
77.5°	135.8	148.2	160.5	148.2	123.5	92.6	74.1	49.4	24.7	12.3	12.3
80°	129.6	148.2	160.5	142.0	123.5	92.6	67.9	37.0	18.5	6.2	6.2
82.5°	117.3	135.8	148.2	129.6	111.1	80.3	61.7	37.0	18.5	6.2	6.2
85°	24.7	30.9	37.0	37.0	43.2	55.6	43.2	30.9	12.3	6.2	6.2
87.5°	18.5	18.5	18.5	18.5	18.5	18.5	12.3	12.3	6.2	6.2	6.2
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)