

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: P533095

Luminaire Tested: **GALN-SA8C-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533095  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-730-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30235 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

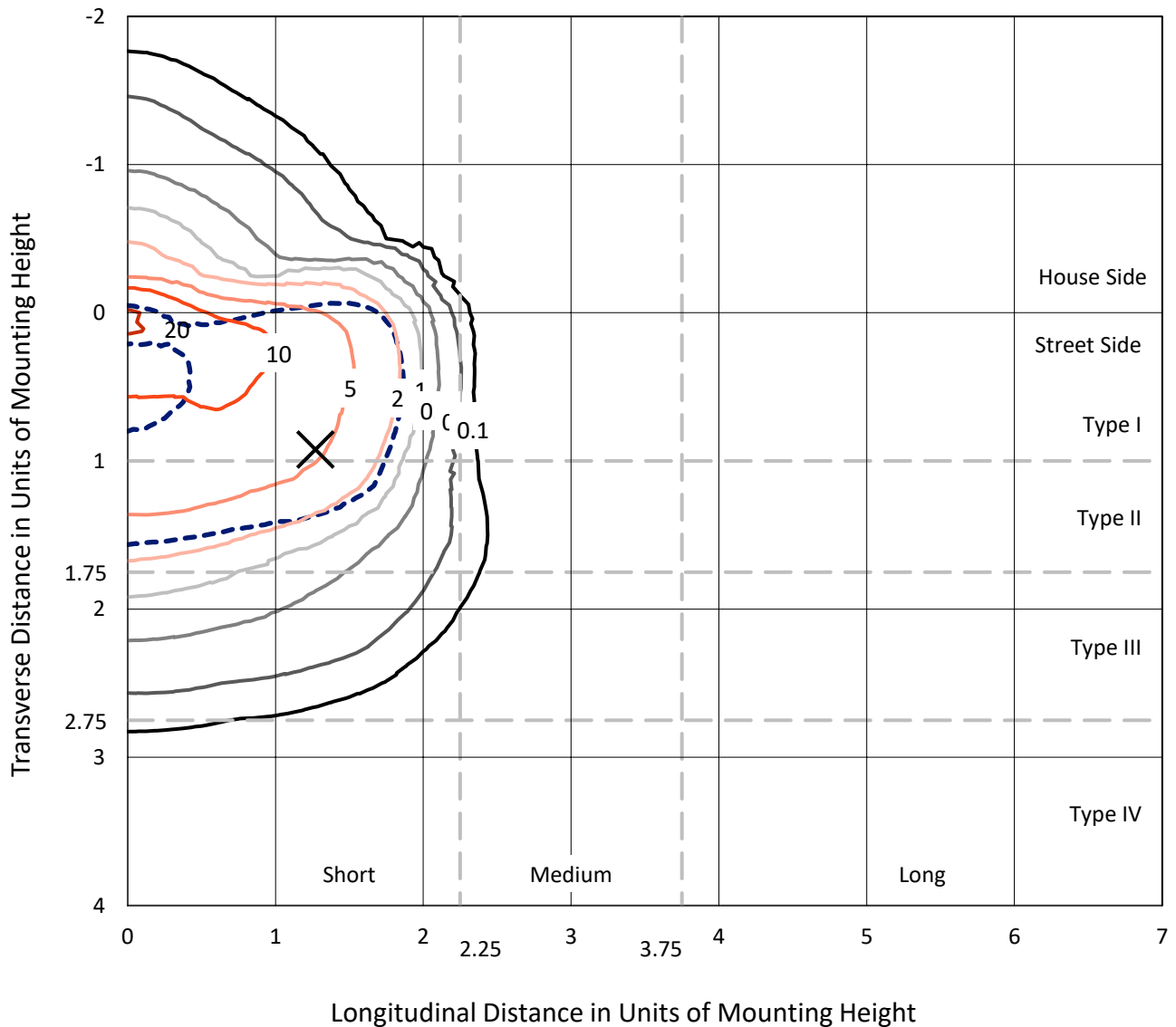
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

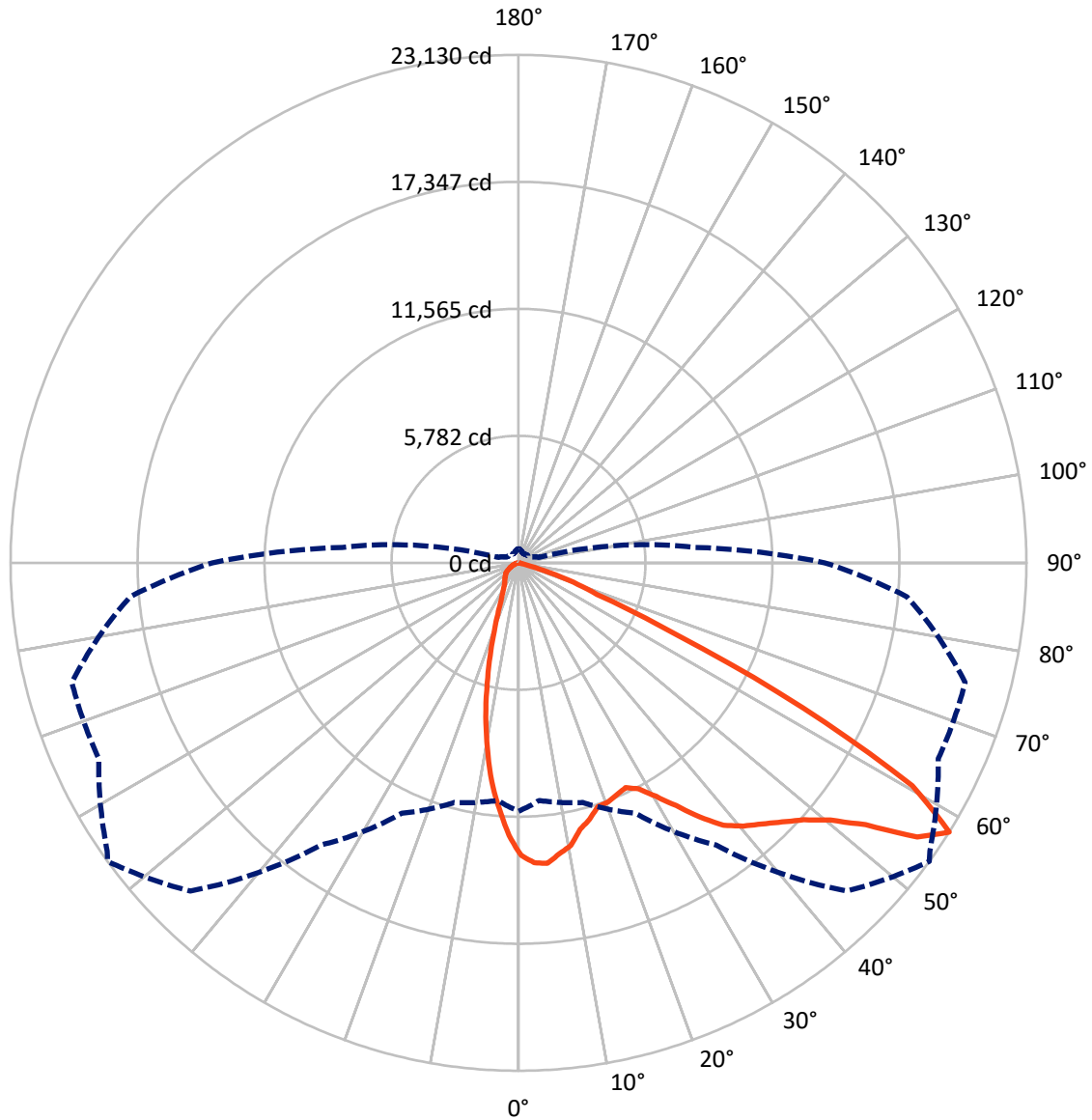
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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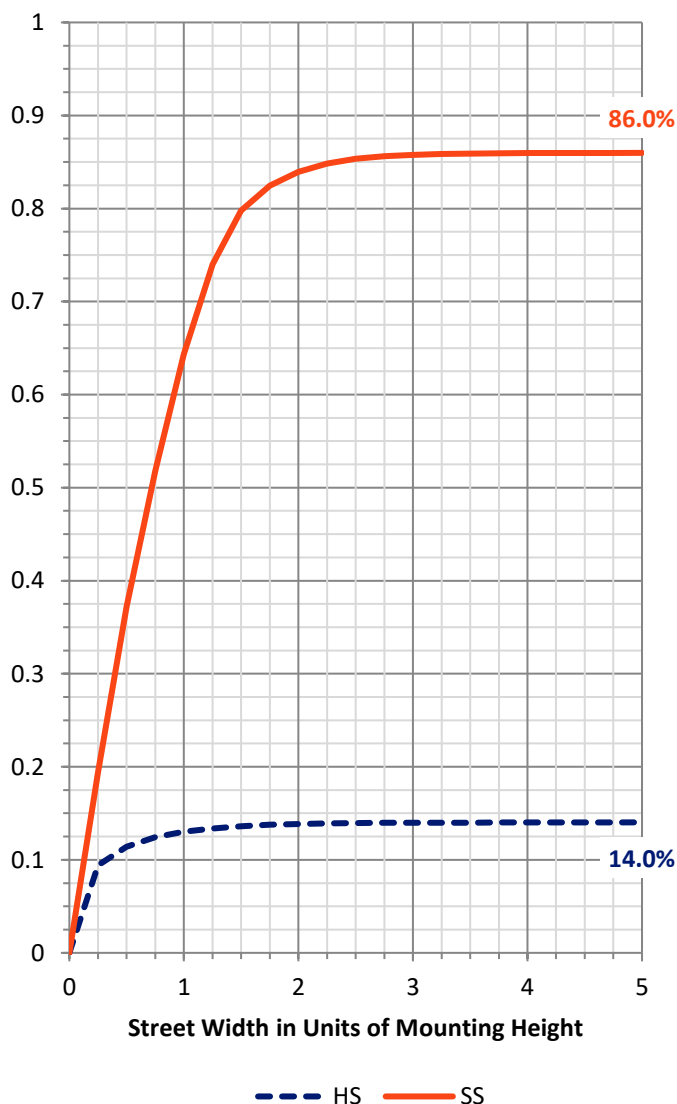
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4272.7	0.0	4272.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	25962.3	0.0	25962.3
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	30235.0	0.0	30235.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1114.6	3.7
10°-20°	2379.5	7.9
20°-30°	3153.4	10.4
30°-40°	4582.7	15.2
40°-50°	6795.6	22.5
50°-60°	8497.6	28.1
60°-70°	3351.9	11.1
70°-80°	333.7	1.1
80°-90°	25.9	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°	30235.0	100.0
0°-180°	30235.0	100.0

**Coefficient of Utilization**



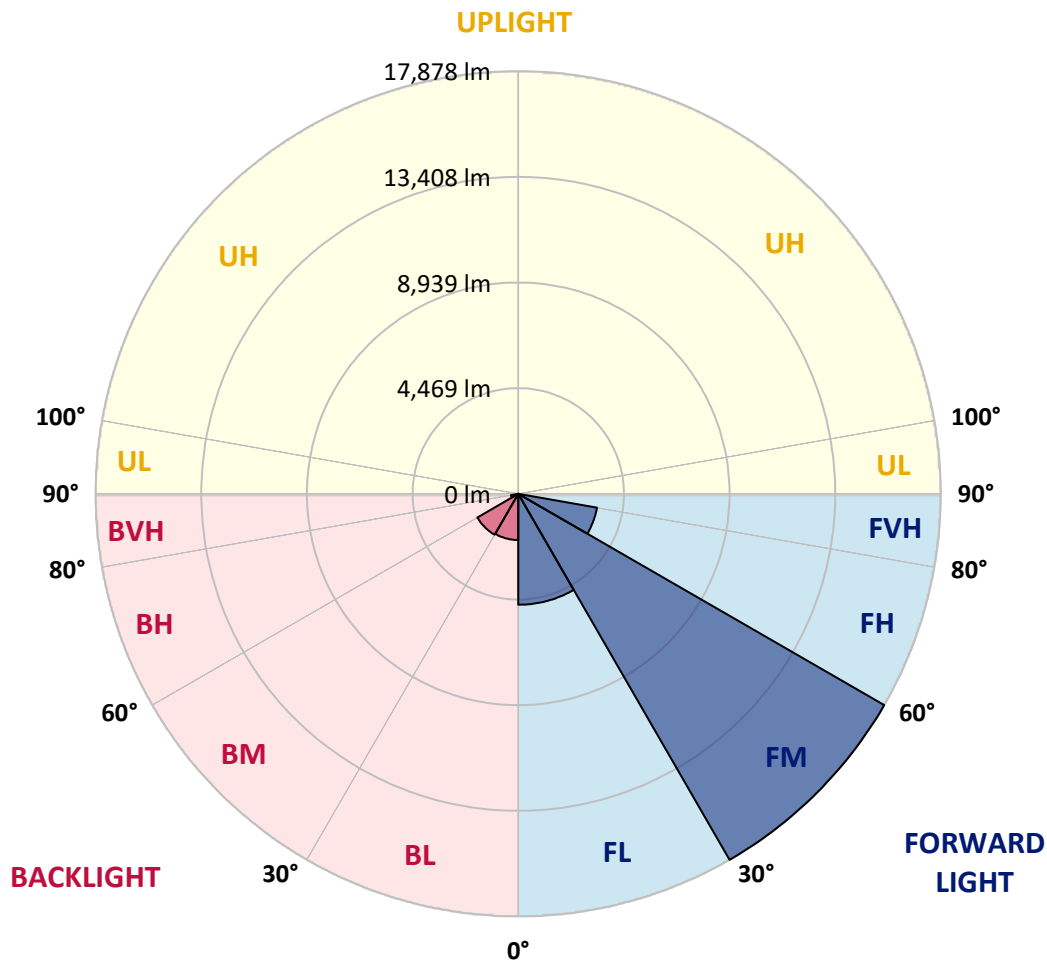
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4693.4	15.5			
FM (30°-60°)	17877.9	59.1			
FH (60°-80°)	3379.3	11.2			G2/5000
FVH (80°-90°)	11.8	0.0			G1/100
BL (0°-30°)	1954.1	6.5	B3/2500		
BM (30°-60°)	1998.0	6.6	B2/2500		
BH (60°-80°)	306.4	1.0	B1/500		G1/500
BVH (80°-90°)	14.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13318.9	13318.9	13318.9	13318.9	13318.9	13318.9	13318.9	13318.9	13318.9	13318.9	13318.9
2.5°	14094.8	13948.6	13959.9	13909.3	13841.8	13892.4	13673.1	13723.7	13718.1	13420.1	13223.3
5°	13740.6	13898.0	13735.0	13869.9	13740.6	13881.1	13746.2	13645.0	13482.0	13262.7	12897.3
7.5°	13139.0	12987.2	13032.2	13200.9	13229.0	13543.8	13375.1	13504.5	13437.0	13004.1	12503.7
10°	11930.2	11896.5	12121.4	12346.3	12621.8	12959.1	13088.4	13015.3	12964.7	12801.7	12132.6
12.5°	11002.6	11098.2	11092.5	11463.6	11930.2	12121.4	12458.7	12447.5	12728.6	12425.0	11784.1
15°	10119.9	10170.5	10406.6	10637.1	11154.4	11699.7	12115.8	12172.0	12509.3	12295.7	11514.2
17.5°	9580.2	9507.1	9692.6	9968.1	10496.6	11210.6	11671.6	11806.6	12267.6	12222.6	11205.0
20°	9046.1	9046.1	9197.9	9524.0	10007.5	10811.4	11632.3	11592.9	12267.6	12138.3	10873.3
22.5°	8866.2	8956.1	8995.5	9242.9	9816.3	10507.8	11463.6	11536.7	12363.2	12098.9	10727.1
25°	9113.5	8995.5	9006.7	9203.5	9743.2	10361.7	11339.9	11503.0	12537.4	12295.7	10609.0
27.5°	9152.9	9271.0	9304.7	9439.6	9799.4	10406.6	11649.1	11980.8	12970.3	12756.7	10642.8
30°	9495.8	9613.9	9608.3	9838.8	10086.2	10772.1	12340.7	12408.1	13864.3	13335.8	10850.8
32.5°	9911.9	10035.6	10074.9	10344.8	10541.6	11441.1	13184.0	13358.3	14724.5	14246.6	11396.1
35°	10429.1	10384.2	10564.1	10833.9	11255.6	12419.4	14212.8	14505.2	15652.1	15427.2	11958.4
37.5°	11075.7	11019.5	11193.7	11632.3	12205.7	13577.5	15163.0	15354.2	16326.8	16523.6	12998.5
40°	11531.1	11553.6	12082.0	12672.4	13279.6	14679.5	15764.6	15950.1	16799.0	17546.8	13785.6
42.5°	12290.1	12430.6	13065.9	13785.6	14420.9	15505.9	16253.7	16433.6	17018.3	18367.6	14848.2
45°	13392.0	13330.2	14032.9	14836.9	15539.7	16366.1	16832.8	16770.9	17147.6	19182.8	15517.2
47.5°	14808.8	14820.0	15286.7	15972.6	16703.5	17113.9	17479.3	17260.1	17417.5	20043.0	16411.1
50°	15775.8	15860.1	16236.8	16939.6	17305.0	17934.7	18401.4	18266.4	18215.8	20560.3	16973.3
52.5°	16023.2	16276.2	16478.6	17355.6	18210.2	19205.3	19801.3	20088.0	19188.5	20734.6	17687.4
55°	14156.6	14381.5	15095.5	16298.7	18553.2	21218.1	22038.9	22044.5	20459.1	21510.4	18187.7
57.5°	11317.4	10862.0	11300.6	12576.8	15685.9	21133.7	23129.6	22865.4	21094.4	21055.0	17754.8
60°	7826.1	7713.6	7741.7	8247.7	10856.4	16810.3	20610.9	20953.8	19424.6	18249.6	14055.4
62.5°	6201.3	6105.7	5982.0	5925.8	6741.0	10474.1	14538.9	15022.4	13583.2	11834.7	8332.1
65°	4857.6	4801.3	4818.2	5043.1	5037.5	5942.6	7949.8	7753.0	6206.9	4587.7	2619.9
67.5°	3277.7	3362.1	3429.5	4109.8	4458.4	4137.9	3839.9	3727.5	2018.4	848.9	579.1
70°	1844.1	1855.3	1928.4	2569.3	3384.5	3210.3	2648.0	2648.0	1006.4	309.2	331.7
72.5°	1006.4	972.6	905.2	1107.6	1506.7	1529.2	1180.7	1028.9	298.0	202.4	185.5
75°	489.1	483.5	416.0	343.0	326.1	269.9	208.0	191.2	134.9	129.3	112.4
77.5°	101.2	95.6	50.6	50.6	56.2	61.8	78.7	78.7	95.6	95.6	78.7
80°	0.0	0.0	5.6	22.5	39.4	56.2	67.5	67.5	78.7	78.7	61.8
82.5°	0.0	0.0	5.6	16.9	33.7	50.6	61.8	67.5	78.7	84.3	67.5
85°	0.0	0.0	0.0	11.2	28.1	39.4	33.7	33.7	28.1	22.5	11.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13318.9	13318.9	13318.9	13318.9	13318.9	13318.9	13318.9	13318.9	13318.9	13318.9	13318.9
2.5°	13122.1	13110.9	12852.3	12706.1	12441.9	12211.4	12025.8	11890.9	11890.9	11806.6	11727.8
5°	12751.1	12655.5	12104.5	11750.3	11250.0	10878.9	10625.9	10429.1	10119.9	10204.2	9872.5
7.5°	12290.1	12048.3	11317.4	10777.7	10086.2	9557.7	9018.0	8540.1	8079.1	7871.0	7983.5
10°	11795.3	11373.7	10389.8	9535.2	8675.0	7708.0	7078.3	6313.7	5841.4	5813.3	5689.6
12.5°	11272.5	10794.6	9597.0	8416.4	7286.3	6122.5	5161.2	4447.1	4126.7	3772.5	3839.9
15°	10878.9	10170.5	8714.4	7292.0	5790.8	4615.8	3648.8	3097.8	2794.2	2709.9	2681.8
17.5°	10451.6	9692.6	7814.8	6094.4	4542.7	3322.7	2625.6	2361.3	2243.2	2243.2	2226.4
20°	10007.5	9152.9	6920.9	4981.2	3407.0	2479.4	2102.7	2018.4	2012.7	2007.1	2007.1
22.5°	9715.1	8534.5	6111.3	3958.0	2569.3	1984.6	1827.2	1793.5	1816.0	1883.4	1883.4
25°	9405.9	7938.5	5217.4	3052.8	1990.2	1703.5	1613.6	1636.1	1692.3	1754.1	1731.6
27.5°	9091.1	7550.6	4374.0	2395.0	1630.4	1489.9	1456.1	1506.7	1568.6	1624.8	1607.9
30°	9018.0	7134.5	3575.7	1816.0	1399.9	1298.7	1321.2	1366.2	1428.0	1450.5	1473.0
32.5°	9130.4	6808.4	2929.2	1489.9	1220.0	1191.9	1191.9	1214.4	1253.7	1304.3	1287.5
35°	9450.9	6622.9	2316.3	1293.1	1118.8	1090.7	1085.1	1107.6	1130.1	1146.9	1130.1
37.5°	9940.0	6476.7	1894.7	1146.9	1051.3	1006.4	995.1	989.5	1012.0	1017.6	1028.9
40°	10564.1	6555.5	1607.9	1057.0	983.9	933.3	899.5	899.5	899.5	916.4	922.0
42.5°	11238.7	6662.3	1388.7	1006.4	922.0	860.2	826.5	815.2	826.5	848.9	843.3
45°	11947.1	6870.3	1248.1	927.7	865.8	787.1	742.1	730.9	759.0	804.0	798.3
47.5°	12610.5	7168.3	1141.3	877.1	809.6	736.5	680.3	669.0	719.6	781.5	787.1
50°	13273.9	7685.5	1101.9	837.7	770.2	685.9	635.3	624.1	680.3	759.0	775.9
52.5°	14038.6	8242.1	1073.8	787.1	725.3	646.5	590.3	579.1	640.9	742.1	747.7
55°	14538.9	8714.4	1051.3	697.1	640.9	584.7	539.7	534.1	601.6	691.5	714.0
57.5°	13954.2	8056.6	972.6	607.2	545.4	517.2	477.9	477.9	534.1	618.4	635.3
60°	10580.9	5301.7	691.5	489.1	461.0	444.2	427.3	427.3	472.3	534.1	539.7
62.5°	6195.6	2856.1	444.2	393.6	393.6	376.7	348.6	348.6	393.6	427.3	432.9
65°	1838.5	916.4	359.8	337.3	331.7	303.6	275.5	269.9	303.6	320.5	314.8
67.5°	528.5	421.7	298.0	281.1	275.5	230.5	213.6	208.0	213.6	202.4	196.8
70°	314.8	286.7	230.5	236.1	208.0	168.7	151.8	146.2	134.9	118.1	106.8
72.5°	174.3	174.3	168.7	179.9	146.2	112.4	95.6	78.7	61.8	50.6	45.0
75°	106.8	112.4	118.1	123.7	95.6	73.1	61.8	39.4	22.5	11.2	11.2
77.5°	73.1	78.7	84.3	90.0	78.7	67.5	50.6	28.1	5.6	0.0	0.0
80°	56.2	61.8	73.1	78.7	84.3	90.0	67.5	28.1	5.6	0.0	0.0
82.5°	61.8	67.5	84.3	78.7	78.7	78.7	61.8	28.1	5.6	0.0	0.0
85°	11.2	16.9	28.1	28.1	39.4	50.6	39.4	11.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)