

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: P531507

Luminaire Tested: **GALN-SA6D-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531507  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-740-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26776 lumens  
Efficiency: N/A  
Efficacy: 72.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

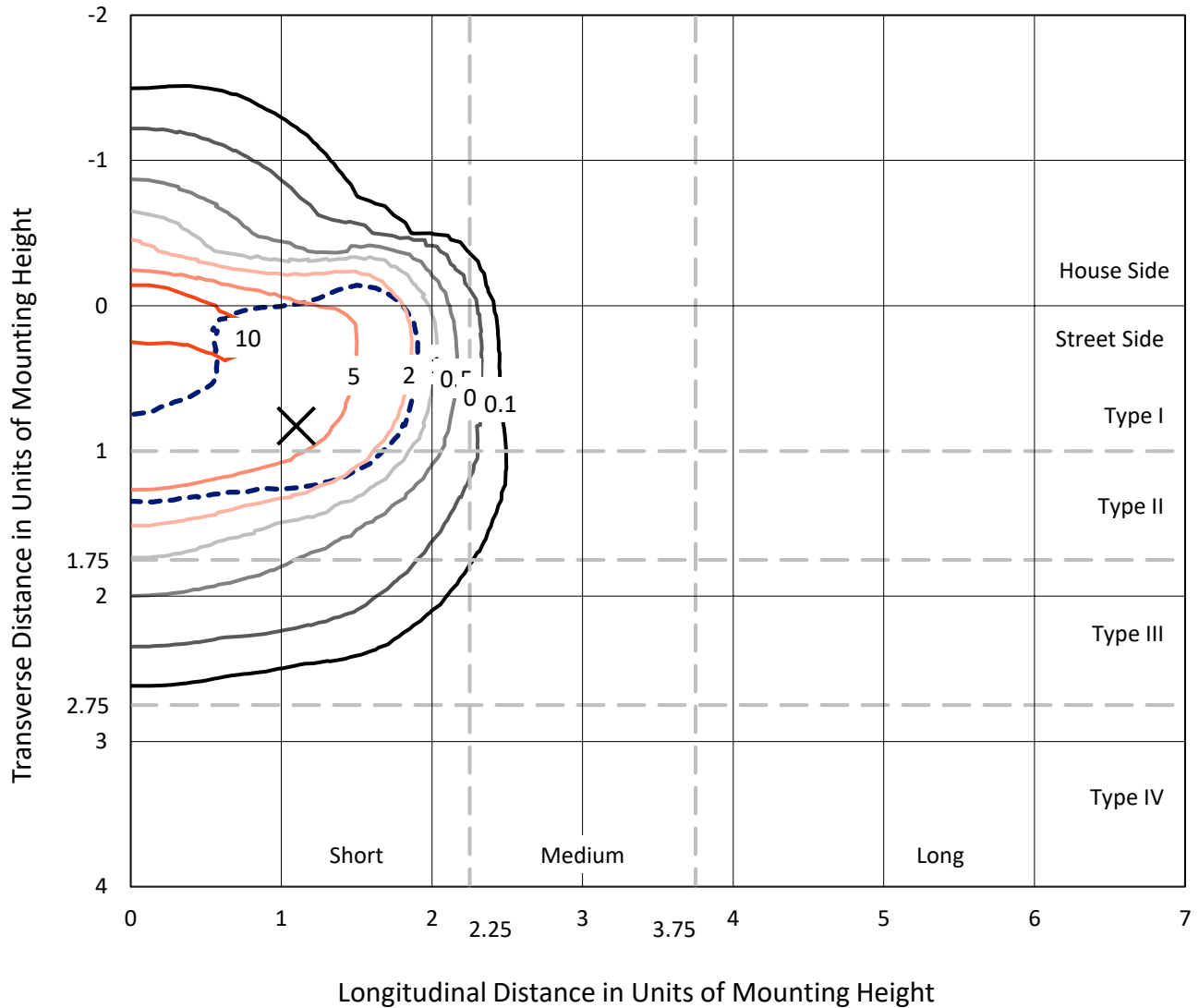
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

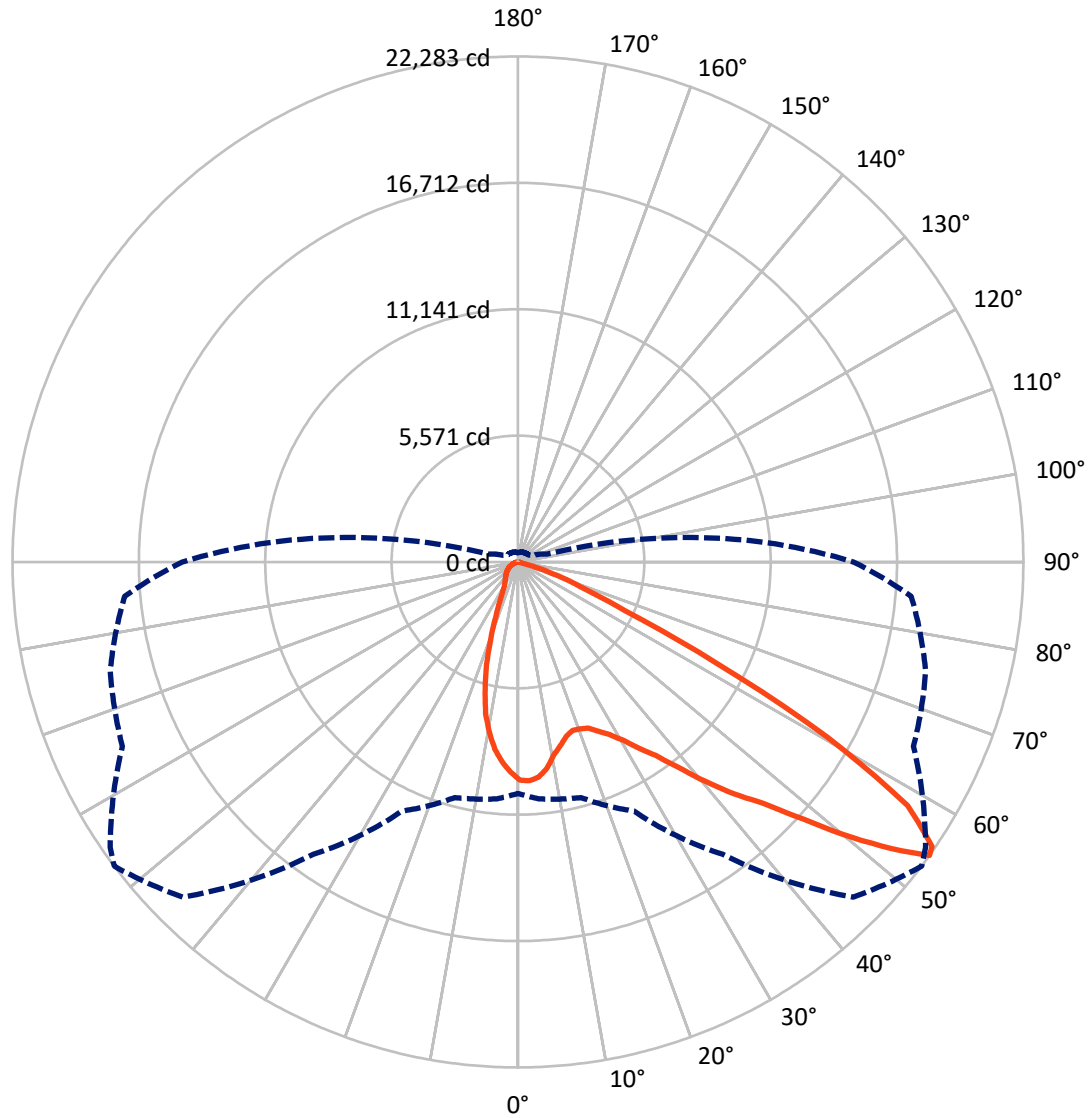
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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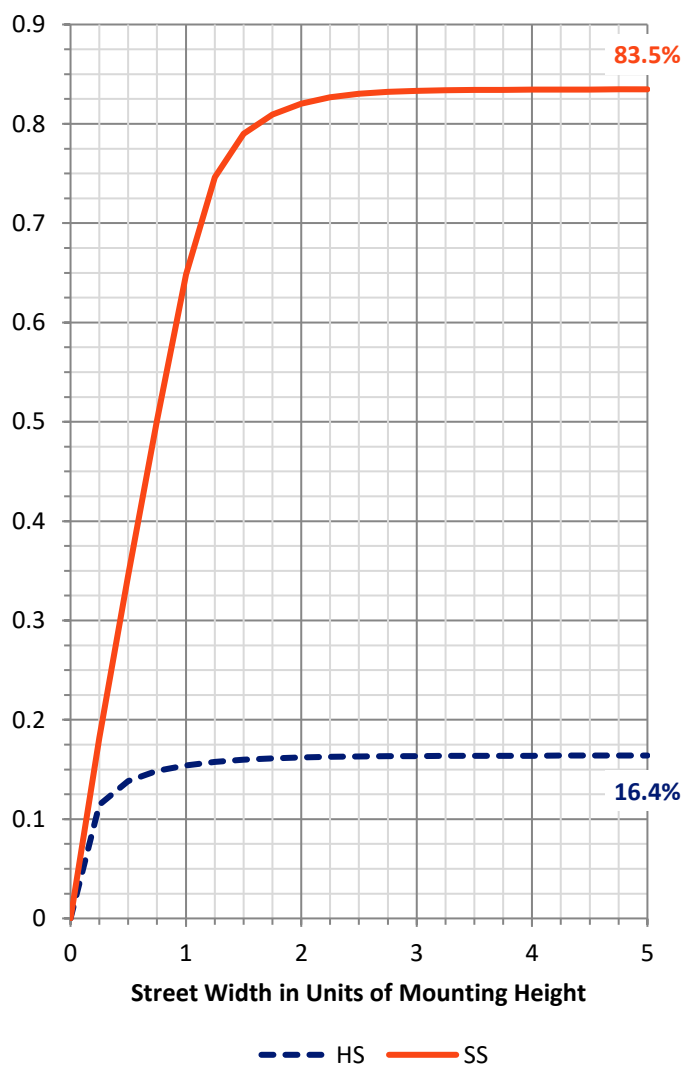
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4430.2	0.0	4430.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	22345.8	0.0	22345.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	26776.0	0.0	26776.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	825.2	3.1
10°-20°	1891.8	7.1
20°-30°	2688.7	10.0
30°-40°	4149.4	15.5
40°-50°	6505.8	24.3
50°-60°	7557.4	28.2
60°-70°	2855.6	10.7
70°-80°	271.5	1.0
80°-90°	30.6	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°	26776.0	100.0
0°-180°	26776.0	100.0

**Coefficient of Utilization**

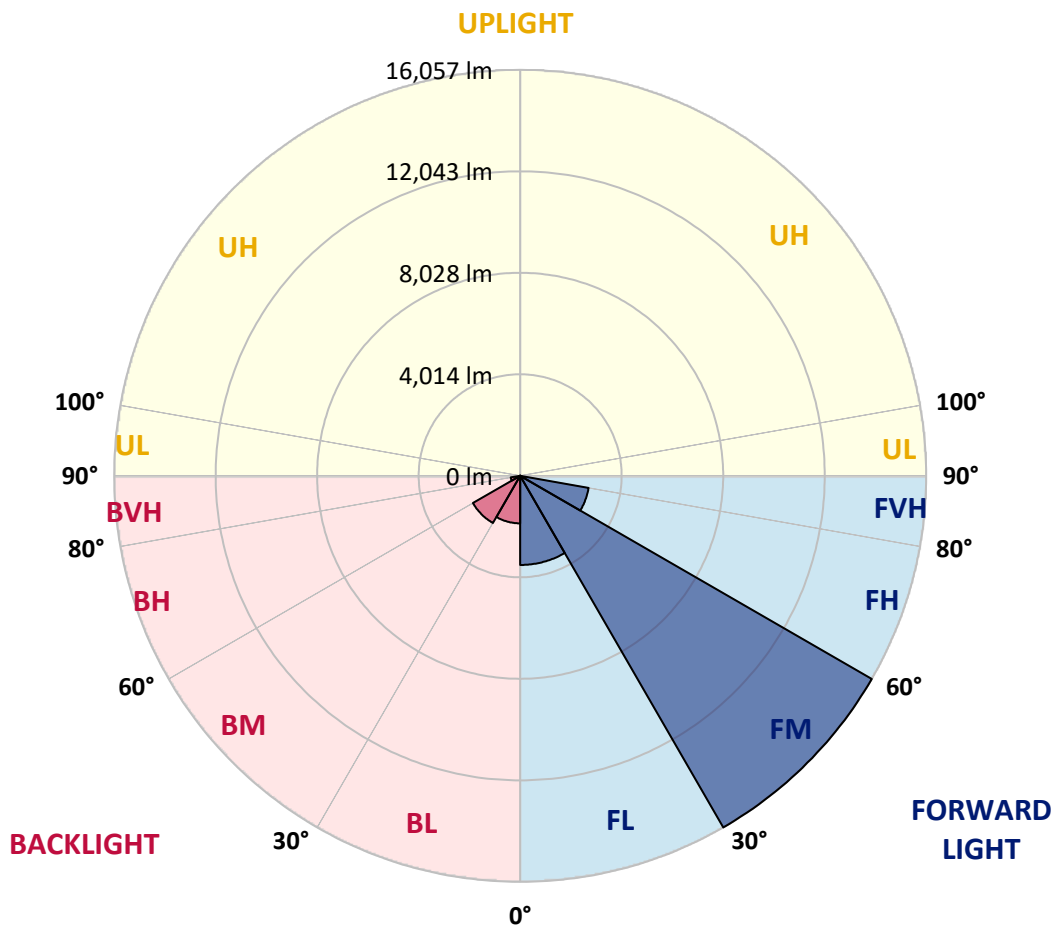


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3525.7	13.2			
FM (30°-60°)	16056.7	60.0			
FH (60°-80°)	2747.6	10.3			G2/5000
FVH (80°-90°)	15.8	0.1			G1/100
BL (0°-30°)	1880.0	7.0	B3/2500		
BM (30°-60°)	2155.9	8.1	B2/2500		
BH (60°-80°)	379.6	1.4	B1/500		G1/500
BVH (80°-90°)	14.8	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9617.5	9617.5	9617.5	9617.5	9617.5	9617.5	9617.5	9617.5	9617.5	9617.5	9617.5
2.5°	9567.6	9482.8	9567.6	9577.6	9637.4	9692.3	9657.4	9737.2	9692.3	9642.4	9627.5
5°	8794.4	8909.1	8914.1	9093.7	9053.8	9383.0	9527.7	9487.8	9732.2	9717.3	9682.3
7.5°	8101.0	8056.1	8116.0	8325.5	8589.9	8969.0	9178.5	9173.5	9522.7	9772.1	9747.2
10°	7457.5	7452.6	7577.3	7741.9	7966.4	8365.4	8654.7	8799.4	9343.1	9722.2	9777.1
12.5°	7023.6	7003.6	7138.3	7273.0	7627.1	7936.4	8305.6	8375.4	8998.9	9547.7	9637.4
15°	6739.2	6784.1	6794.1	7053.5	7278.0	7687.0	7976.3	8121.0	8839.3	9408.0	9752.2
17.5°	6689.3	6749.2	6754.2	6968.7	7208.1	7552.3	7806.7	8001.3	8704.6	9477.8	9757.2
20°	6789.1	6754.2	6784.1	6918.8	7153.3	7482.5	7851.6	7916.5	8659.7	9512.7	9812.0
22.5°	7073.4	7063.5	6988.6	7098.4	7263.0	7607.2	7956.4	8056.1	8789.4	9692.3	9856.9
25°	7387.7	7442.6	7372.7	7357.8	7472.5	7811.7	8275.6	8405.3	9223.4	10016.6	9996.6
27.5°	7976.3	7921.5	7921.5	7851.6	7821.7	7986.3	8619.8	8834.3	9707.3	10435.6	10156.2
30°	8540.0	8599.9	8555.0	8579.9	8380.4	8365.4	9108.7	9373.1	10565.3	11074.1	10495.4
32.5°	9432.9	9353.1	9427.9	9363.1	9098.7	8829.3	9772.1	10046.5	11602.8	11807.4	11004.2
35°	10176.2	10141.3	10460.5	10450.5	10021.5	9757.2	10475.5	10884.5	12326.1	12685.3	11602.8
37.5°	11233.7	11168.9	11533.0	11707.6	11323.5	10929.4	11483.1	11957.0	12999.6	13388.7	12216.4
40°	12321.2	12485.8	12974.6	13264.0	12854.9	12331.1	12715.2	12859.9	13448.5	13847.6	12635.4
42.5°	13697.9	13937.4	14436.2	14685.6	14650.7	14082.0	13967.3	13962.3	13772.8	13717.9	12944.7
45°	15019.8	14930.1	15698.3	16242.0	16681.0	16516.3	15174.5	15024.8	14286.6	13912.4	13024.5
47.5°	15598.5	15568.6	16092.3	17060.1	18556.6	18761.1	16930.4	16351.7	15154.5	14730.5	13458.5
50°	14850.2	15004.9	15523.7	16596.2	18890.8	20452.1	19085.3	18307.1	16167.2	15728.2	14486.1
52.5°	12406.0	12510.7	13004.6	14366.4	17753.4	21449.8	21150.5	20701.5	18027.8	17299.5	16276.9
54°	10201.1	10480.5	10749.8	12116.6	15728.2	20896.1	22282.8	21938.6	19240.0	18606.4	17404.3
55°	8884.2	9048.8	9243.4	10605.2	14326.5	19958.3	22153.1	22183.1	20053.1	19015.5	18162.5
57.5°	6489.8	6604.5	6405.0	7008.6	9837.0	16207.1	20262.6	21070.7	21150.5	19629.1	18626.4
60°	4958.4	5008.3	4783.8	4878.6	6115.7	11124.0	15673.3	16646.0	19080.3	17154.8	15778.1
62.5°	3846.0	3856.0	3851.0	4015.6	4215.1	6544.7	9802.1	10665.0	13154.2	12181.5	10714.9
65°	2833.4	2788.5	2868.3	3367.1	3596.6	4115.4	5162.9	5791.4	7148.3	6035.9	4314.9
67.5°	1835.7	1850.7	1930.5	2504.1	3082.8	3157.6	3177.6	3127.7	3132.7	1726.0	1082.5
70°	1102.4	1127.4	1102.4	1416.7	2204.8	2264.7	2070.2	2020.3	1576.3	409.0	404.1
72.5°	653.5	618.6	553.7	608.6	917.9	1097.4	987.7	982.7	618.6	239.4	239.4
75°	274.4	249.4	204.5	184.6	244.4	234.5	234.5	209.5	164.6	159.6	149.6
77.5°	54.9	54.9	39.9	44.9	59.9	69.8	84.8	84.8	99.8	99.8	94.8
80°	0.0	5.0	15.0	29.9	44.9	64.8	74.8	74.8	84.8	84.8	69.8
82.5°	0.0	5.0	15.0	29.9	39.9	59.9	74.8	74.8	84.8	89.8	74.8
85°	0.0	5.0	15.0	24.9	39.9	49.9	49.9	44.9	34.9	29.9	20.0
87.5°	0.0	0.0	5.0	10.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0
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°	9617.5	9617.5	9617.5	9617.5	9617.5	9617.5	9617.5	9617.5	9617.5	9617.5	9617.5
2.5°	9662.4	9657.4	9537.7	9343.1	9298.2	9133.6	9113.7	9013.9	9068.8	8884.2	8864.3
5°	9582.6	9522.7	9378.0	9253.3	8889.2	8629.8	8425.3	8175.9	8031.2	8056.1	7961.4
7.5°	9697.3	9542.7	9288.3	8854.3	8410.3	7956.4	7711.9	7203.1	7018.6	6744.2	6704.3
10°	9577.6	9462.8	9068.8	8350.5	7736.9	7083.4	6509.8	5946.1	5517.1	5332.5	5292.6
12.5°	9567.6	9368.1	8709.6	7911.5	7023.6	6085.8	5252.7	4549.4	4125.3	3885.9	3831.0
15°	9413.0	9173.5	8305.6	7233.1	6005.9	4838.7	3930.8	3252.4	2928.1	2788.5	2828.4
17.5°	9427.9	9068.8	7901.5	6514.8	5003.3	3551.7	2683.7	2334.5	2249.7	2284.7	2284.7
20°	9413.0	8834.3	7412.6	5686.7	3831.0	2464.2	1970.4	1845.7	1900.6	2010.3	1985.4
22.5°	9333.2	8724.6	6963.7	4813.7	2818.4	1825.7	1581.3	1586.3	1671.1	1805.8	1835.7
25°	9393.0	8480.1	6395.0	3930.8	2055.2	1456.6	1371.8	1406.7	1496.5	1596.3	1616.2
27.5°	9348.1	8305.6	5801.4	3052.9	1501.5	1252.1	1247.1	1287.0	1326.9	1401.7	1401.7
30°	9398.0	8145.9	5217.8	2269.7	1237.1	1147.3	1127.4	1157.3	1197.2	1212.2	1207.2
32.5°	9582.6	8026.2	4544.4	1696.0	1092.4	1047.5	1047.5	1047.5	1042.6	1062.5	1067.5
35°	9986.6	8046.2	3950.8	1311.9	997.7	962.7	947.8	927.8	917.9	927.8	932.8
37.5°	10425.6	8036.2	3337.2	1117.4	927.8	897.9	863.0	833.1	828.1	838.0	823.1
40°	10620.1	8131.0	2768.5	1002.7	863.0	828.1	773.2	748.2	753.2	763.2	753.2
42.5°	10884.5	8160.9	2399.4	912.9	803.1	748.2	713.3	683.4	678.4	693.4	688.4
45°	10879.5	7991.3	2010.3	863.0	748.2	688.4	643.5	618.6	618.6	628.5	633.5
47.5°	11198.8	7966.4	1726.0	818.1	708.3	648.5	593.6	573.7	568.7	568.7	558.7
50°	11942.0	8315.5	1506.5	768.2	658.5	603.6	558.7	533.8	513.8	503.8	498.8
52.5°	13393.6	9403.0	1336.9	708.3	603.6	558.7	518.8	498.8	473.9	448.9	444.0
54°	14800.4	10525.4	1326.9	658.5	558.7	528.8	493.8	483.9	453.9	419.0	409.0
55°	15433.9	11178.8	1361.8	618.6	528.8	508.8	478.9	468.9	439.0	399.1	394.1
57.5°	15957.6	11433.2	1341.9	513.8	478.9	473.9	448.9	434.0	399.1	344.2	334.2
60°	12844.9	8644.8	962.7	453.9	439.0	429.0	409.0	399.1	354.2	294.3	289.3
62.5°	8116.0	4973.4	613.6	399.1	384.1	369.1	344.2	334.2	294.3	234.5	219.5
65°	3456.9	2060.2	414.0	354.2	329.2	304.3	284.3	269.4	234.5	174.6	169.6
67.5°	897.9	733.3	344.2	309.3	274.4	239.4	224.5	199.5	159.6	119.7	114.7
70°	404.1	369.1	289.3	259.4	219.5	184.6	164.6	139.7	104.8	79.8	74.8
72.5°	239.4	234.5	219.5	194.5	164.6	139.7	119.7	94.8	69.8	44.9	44.9
75°	149.6	144.7	149.6	134.7	114.7	104.8	89.8	64.8	39.9	20.0	20.0
77.5°	89.8	89.8	89.8	84.8	79.8	79.8	64.8	39.9	20.0	5.0	5.0
80°	69.8	69.8	74.8	69.8	69.8	69.8	54.9	29.9	10.0	0.0	0.0
82.5°	69.8	74.8	84.8	79.8	69.8	59.9	49.9	29.9	10.0	0.0	0.0
85°	20.0	15.0	24.9	34.9	49.9	44.9	34.9	24.9	10.0	0.0	0.0
87.5°	10.0	10.0	10.0	10.0	5.0	5.0	5.0	5.0	5.0	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)