

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P635988

Luminaire Tested: GWS-SA3E-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635988  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3E-830-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

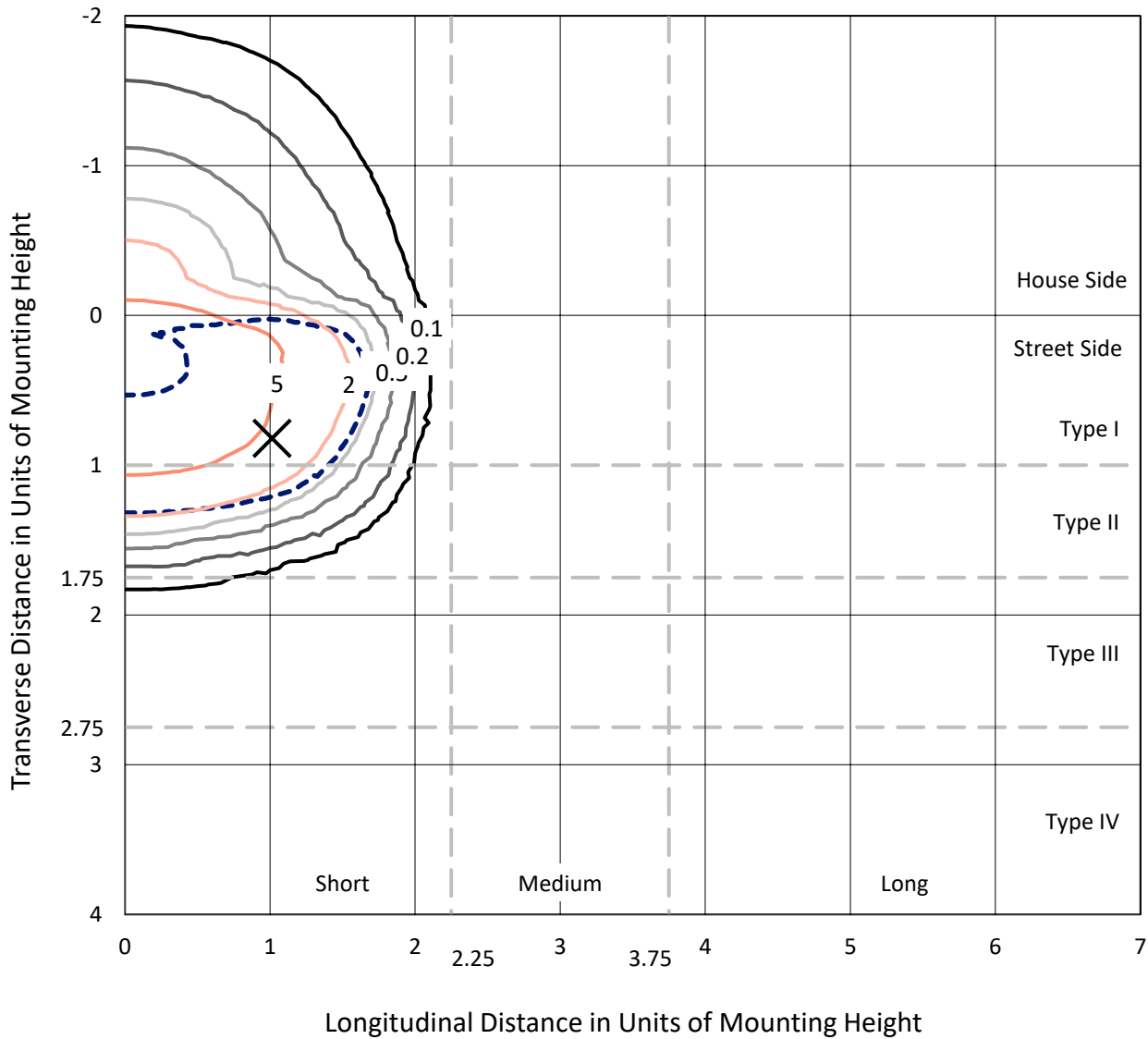
Lumens per Lamp: N/A  
Luminaire Lumens: 15848.6 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

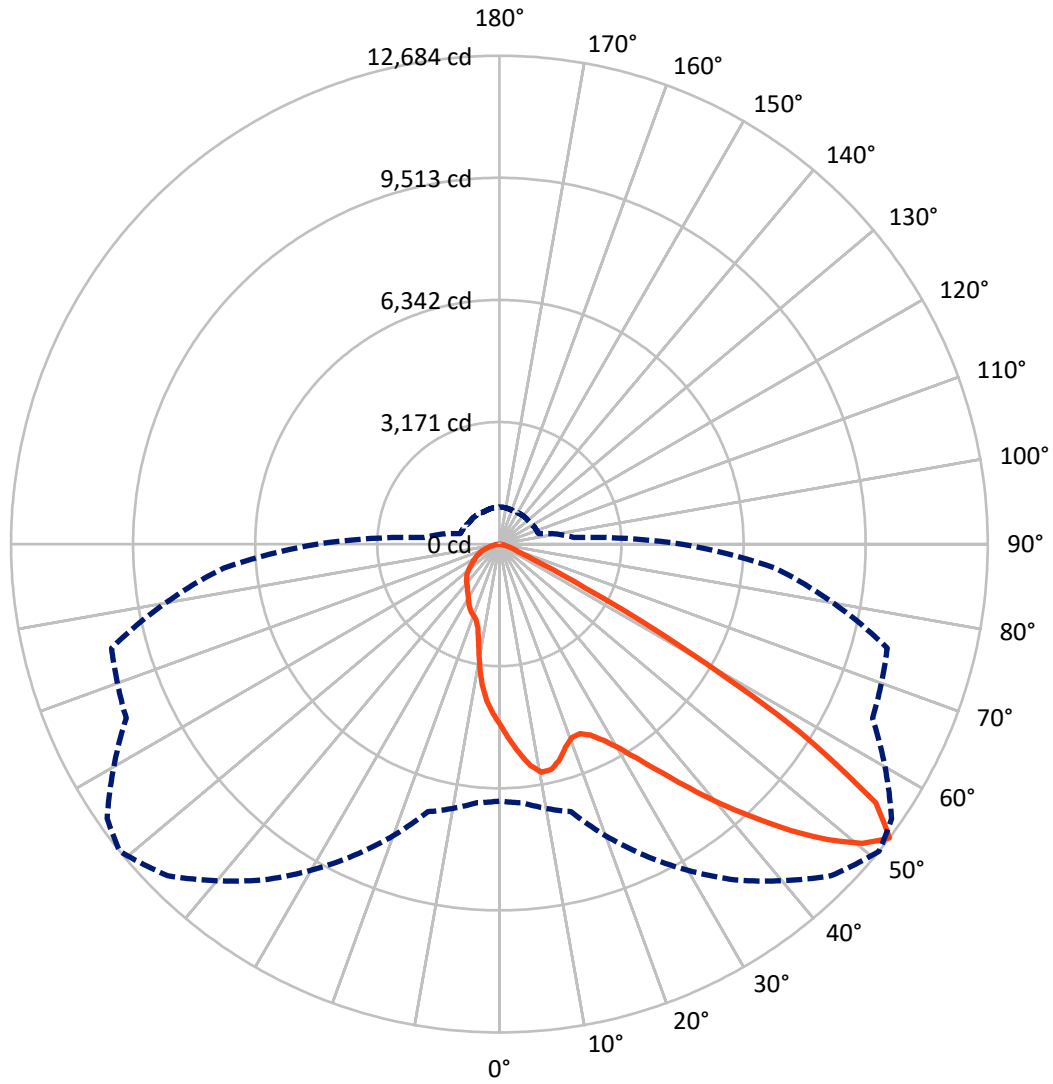
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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CATALOG NUMBER: GWS-SA3E-830-U-AFL-W-GRSWH

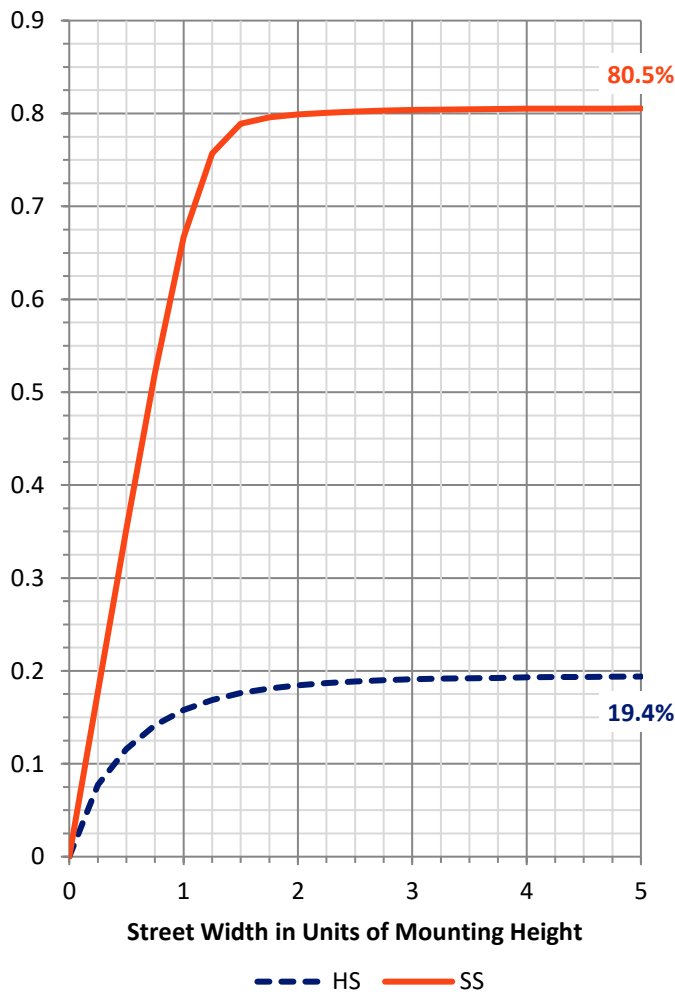
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3088.0	0.0	3088.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	12760.6	0.0	12760.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	15848.6	0.0	15848.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.3	2.8
10°-20°	1144.2	7.2
20°-30°	1860.3	11.7
30°-40°	2948.2	18.6
40°-50°	4446.6	28.1
50°-60°	3846.6	24.3
60°-70°	872.1	5.5
70°-80°	257.1	1.6
80°-90°	33.1	0.2
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°	15848.6	100.0
0°-180°	15848.6	100.0

**Coefficient of Utilization**



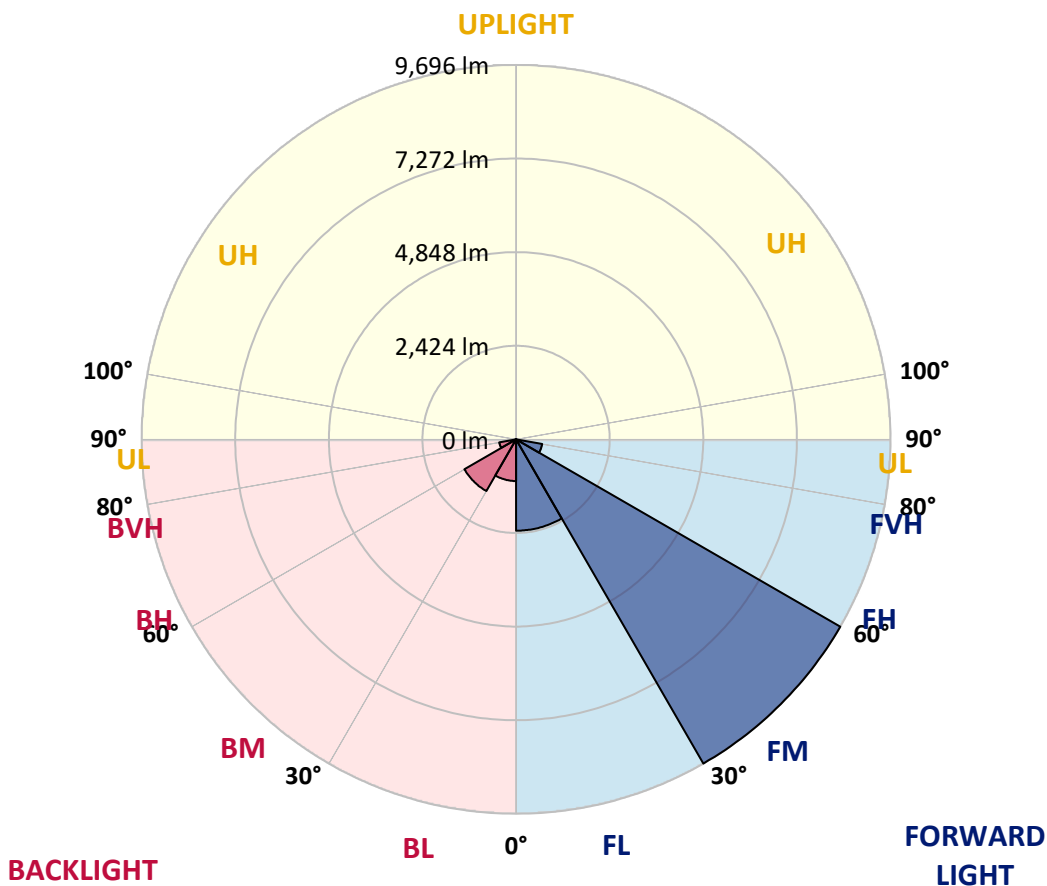
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2365.4	14.9			
FM (30°-60°)	9696.4	61.2			
FH (60°-80°)	686.3	4.3			G1/1800
FVH (80°-90°)	12.5	0.1			G1/100
BL (0°-30°)	1079.4	6.8	B3/2500		
BM (30°-60°)	1545.0	9.7	B2/2500		
BH (60°-80°)	442.9	2.8	B1/500		G1/500
BVH (80°-90°)	20.6	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°	51°	55°	65°	75°	85°
0°	4718.9	4718.9	4718.9	4718.9	4718.9	4718.9	4718.9	4718.9	4718.9	4718.9	4718.9
2.5°	5258.7	5288.7	5242.4	5224.9	5196.1	5146.0	5088.4	5072.1	4948.1	4866.7	4775.3
5°	5787.2	5803.5	5765.9	5728.3	5656.9	5568.0	5456.6	5432.8	5207.3	5020.7	4826.6
7.5°	5904.9	5898.6	5931.2	5952.5	5943.7	5908.7	5809.7	5763.4	5494.1	5198.6	4911.8
10°	5439.0	5404.0	5524.2	5667.0	5838.5	6036.4	6025.1	6021.4	5787.2	5437.8	5020.7
12.5°	4821.6	4804.1	4901.8	5080.9	5405.2	5843.5	6007.6	6135.3	6051.4	5665.7	5142.2
15°	4468.4	4462.2	4528.6	4657.6	4915.5	5469.1	5819.7	6072.7	6278.1	5909.9	5271.2
17.5°	4404.6	4408.3	4430.9	4504.8	4690.1	5146.0	5551.7	5904.9	6454.7	6177.9	5432.8
20°	4591.2	4616.2	4577.4	4588.7	4688.9	5029.5	5368.9	5735.8	6567.4	6447.2	5606.8
22.5°	5005.7	4996.9	4911.8	4861.7	4862.9	5100.9	5348.9	5656.9	6641.3	6708.9	5764.6
25°	5475.3	5465.3	5363.9	5252.4	5182.3	5295.0	5492.9	5740.9	6707.7	6948.1	5891.1
27.5°	6030.1	5998.8	5886.1	5743.4	5588.1	5636.9	5770.9	5967.5	6810.4	7183.6	5975.0
30°	6567.4	6603.7	6442.2	6273.1	6109.0	6079.0	6156.6	6334.5	7019.5	7459.1	6075.2
32.5°	7280.0	7267.5	7088.4	6868.0	6633.8	6611.2	6672.6	6835.4	7395.2	7839.8	6228.0
35°	8142.9	8145.4	7891.2	7593.1	7260.0	7199.9	7302.6	7460.4	7955.0	8355.8	6469.7
37.5°	9039.6	9035.8	8814.2	8476.0	8021.4	7936.2	8054.0	8171.7	8655.1	9058.4	6845.4
40°	9668.3	9693.3	9589.4	9411.5	8980.7	8772.8	8876.8	8958.2	9416.5	9884.9	7340.1
42.5°	10025.2	10062.8	10085.3	10191.8	9965.1	9743.4	9705.8	9748.4	10096.6	10652.6	7804.8
45°	10101.6	10151.7	10315.7	10710.2	10797.9	10735.3	10612.6	10509.9	10603.8	11197.4	8109.1
47.5°	9764.7	9852.4	10203.0	10893.1	11405.3	11601.9	11465.4	11308.9	10896.8	11337.7	8077.8
50°	8429.7	8532.4	9322.6	10519.9	11491.7	12208.1	12220.6	11988.9	10861.8	10933.2	7684.5
52.5°	6673.9	6744.0	7196.1	8918.1	10643.9	12183.0	12684.0	12436.0	10692.7	10427.2	7192.3
55°	3988.8	4101.5	4523.5	5883.6	8291.9	10797.9	11864.9	11985.2	10610.1	10002.7	6856.7
57.5°	1346.3	1401.4	1804.7	2598.7	4886.7	7906.2	9167.3	9655.7	9632.0	9353.9	6201.7
60°	641.2	653.7	735.1	985.6	1956.2	4131.6	5426.5	5990.1	6503.5	6554.9	3858.5
62.5°	488.4	495.9	537.3	591.1	786.5	1740.8	2487.2	2918.0	3117.1	2675.1	1405.2
65°	408.3	414.5	445.8	479.7	534.8	753.9	954.3	1100.8	991.9	772.7	670.0
67.5°	340.6	345.7	369.4	405.8	443.3	504.7	529.8	544.8	571.1	641.2	616.2
70°	266.8	271.8	296.8	328.1	364.4	379.5	403.3	418.3	470.9	561.1	558.6
72.5°	205.4	211.7	225.4	245.5	275.5	290.5	316.8	334.4	364.4	437.1	467.1
75°	150.3	154.0	166.6	172.8	176.6	172.8	199.1	219.2	259.2	286.8	294.3
77.5°	61.4	68.9	66.4	66.4	78.9	95.2	109.0	121.5	149.0	165.3	166.6
80°	25.0	27.6	32.6	36.3	43.8	56.4	65.1	70.1	82.7	92.7	100.2
82.5°	15.0	16.3	18.8	20.0	25.0	32.6	37.6	41.3	51.3	61.4	65.1
85°	7.5	7.5	8.8	10.0	12.5	15.0	17.5	20.0	26.3	32.6	36.3
87.5°	1.3	1.3	1.3	2.5	3.8	5.0	6.3	7.5	8.8	10.0	12.5
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°	4718.9	4718.9	4718.9	4718.9	4718.9	4718.9	4718.9	4718.9	4718.9	4718.9	4718.9
2.5°	4721.4	4653.8	4574.9	4512.3	4439.6	4385.8	4309.4	4261.8	4216.7	4179.1	4151.6
5°	4726.4	4612.5	4448.4	4303.1	4152.8	4010.1	3863.6	3744.6	3638.1	3549.2	3541.7
7.5°	4755.2	4591.2	4334.4	4080.2	3787.2	3504.1	3221.1	2990.7	2815.3	2723.9	2705.1
10°	4804.1	4588.7	4218.0	3812.2	3312.5	2856.6	2521.0	2345.7	2244.2	2207.9	2195.4
12.5°	4855.4	4582.4	4068.9	3434.0	2740.2	2340.7	2156.6	2135.3	2154.1	2156.6	2155.3
15°	4918.0	4578.7	3881.1	2990.7	2321.9	2101.5	2114.0	2159.1	2202.9	2212.9	2212.9
17.5°	4994.4	4569.9	3625.6	2557.3	2060.1	2055.1	2121.5	2181.6	2223.0	2230.5	2230.5
20°	5074.6	4547.3	3311.3	2204.2	1953.7	2026.3	2097.7	2144.1	2172.9	2182.9	2184.1
22.5°	5129.7	4487.2	2949.3	1942.4	1887.3	1971.2	2022.6	2070.2	2070.2	2045.1	2037.6
25°	5141.0	4358.2	2557.3	1763.3	1808.4	1886.1	1938.7	1911.1	1859.8	1839.7	1838.5
27.5°	5099.6	4170.4	2170.4	1635.6	1713.2	1790.9	1782.1	1742.0	1719.5	1699.5	1707.0
30°	5049.5	3945.0	1834.7	1530.4	1603.0	1679.4	1649.4	1635.6	1619.3	1596.8	1601.8
32.5°	5015.7	3693.2	1576.7	1449.0	1529.1	1541.7	1563.0	1561.7	1546.7	1504.1	1501.6
35°	5025.7	3439.0	1403.9	1382.6	1467.8	1462.8	1502.8	1495.3	1391.4	1332.5	1328.8
37.5°	5105.9	3194.8	1302.5	1330.0	1370.1	1401.4	1436.5	1346.3	1310.0	1272.4	1274.9
40°	5258.7	2968.1	1247.4	1301.2	1311.2	1357.6	1276.2	1274.9	1258.6	1224.8	1223.6
42.5°	5431.5	2776.5	1209.8	1287.4	1273.7	1282.4	1196.0	1206.0	1204.8	1183.5	1177.2
45°	5536.7	2599.9	1179.7	1236.1	1239.8	1152.2	1125.9	1137.1	1143.4	1132.1	1130.9
47.5°	5427.8	2397.0	1148.4	1157.2	1189.7	1093.3	1060.8	1062.0	1073.3	1074.5	1069.5
50°	5122.2	2170.4	1110.8	1089.6	1068.3	1032.0	1001.9	995.6	1006.9	1018.2	1021.9
52.5°	4727.7	1953.7	1048.2	1015.7	965.6	965.6	951.8	931.8	946.8	961.8	966.8
55°	4438.4	1793.4	959.3	923.0	867.9	886.7	884.2	866.6	886.7	897.9	901.7
57.5°	3846.0	1441.5	844.1	832.8	786.5	809.0	814.0	791.5	781.5	784.0	787.7
60°	2283.1	930.5	761.4	760.2	718.9	745.2	760.2	737.6	707.6	711.3	716.4
62.5°	1024.4	711.3	657.5	652.5	651.2	685.0	701.3	680.0	637.5	641.2	646.2
65°	645.0	614.9	571.1	571.1	591.1	619.9	632.4	614.9	566.1	559.8	564.8
67.5°	598.6	572.3	527.2	518.5	528.5	552.3	553.5	519.7	490.9	485.9	485.9
70°	537.3	517.2	473.4	455.9	452.1	450.9	447.1	438.3	419.5	414.5	417.0
72.5°	444.6	430.8	403.3	384.5	374.5	373.2	358.2	350.7	334.4	331.9	330.6
75°	294.3	298.1	298.1	295.6	286.8	283.0	266.8	259.2	240.5	232.9	231.7
77.5°	174.1	177.8	182.8	184.1	182.8	182.8	167.8	159.1	140.3	130.2	127.7
80°	106.5	109.0	111.5	115.2	110.2	106.5	92.7	83.9	75.1	68.9	67.6
82.5°	68.9	71.4	72.6	75.1	72.6	67.6	56.4	51.3	45.1	40.1	38.8
85°	38.8	40.1	42.6	42.6	38.8	35.1	28.8	25.0	21.3	18.8	18.8
87.5°	13.8	13.8	13.8	15.0	12.5	11.3	7.5	5.0	3.8	3.8	3.8
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)