

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: P638362

Luminaire Tested: GWS-SA4E-760-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-760-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

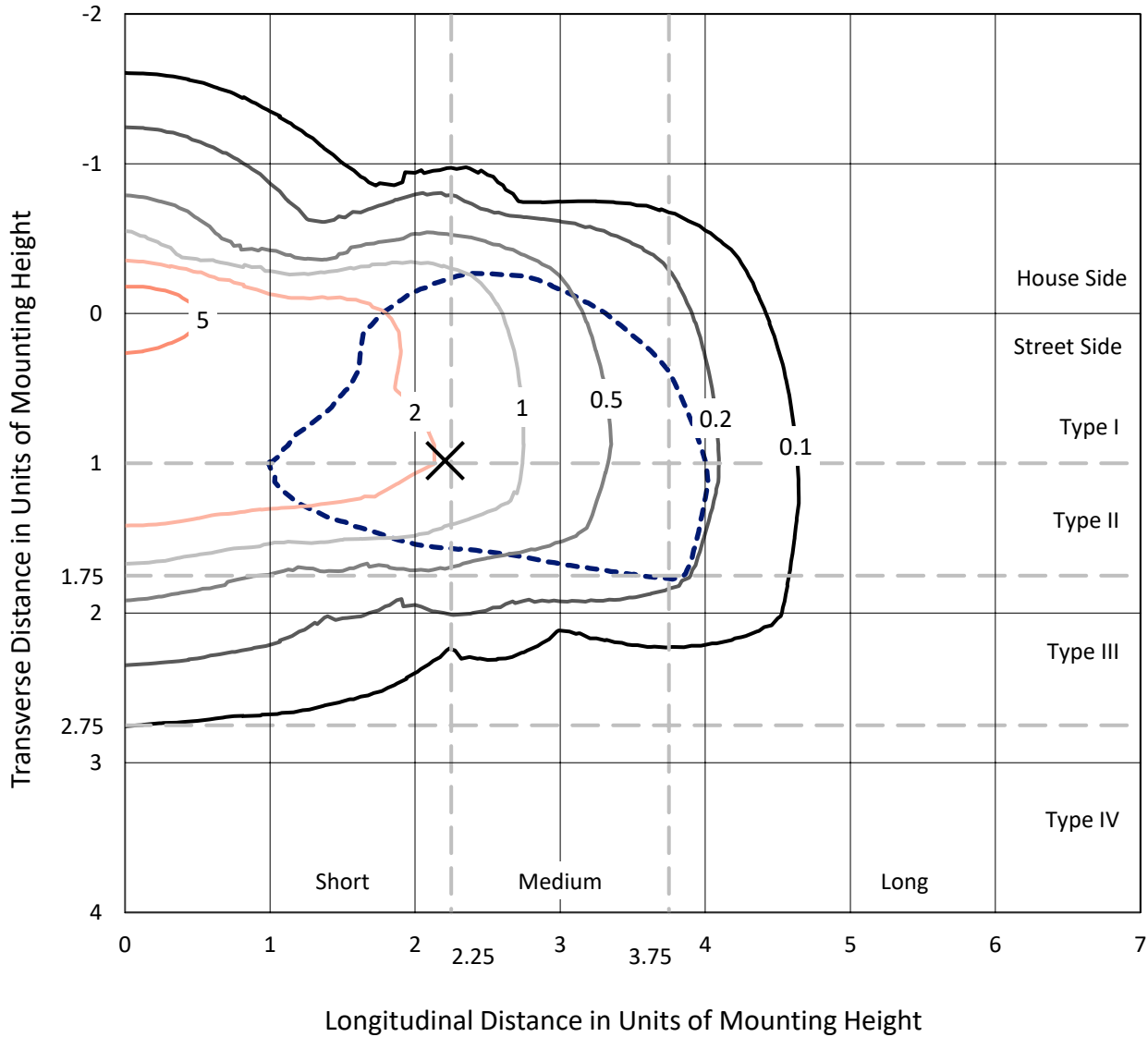
Lumens per Lamp: N/A  
Luminaire Lumens: 30340.3 lumens  
Efficiency: N/A  
Efficacy: 149.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

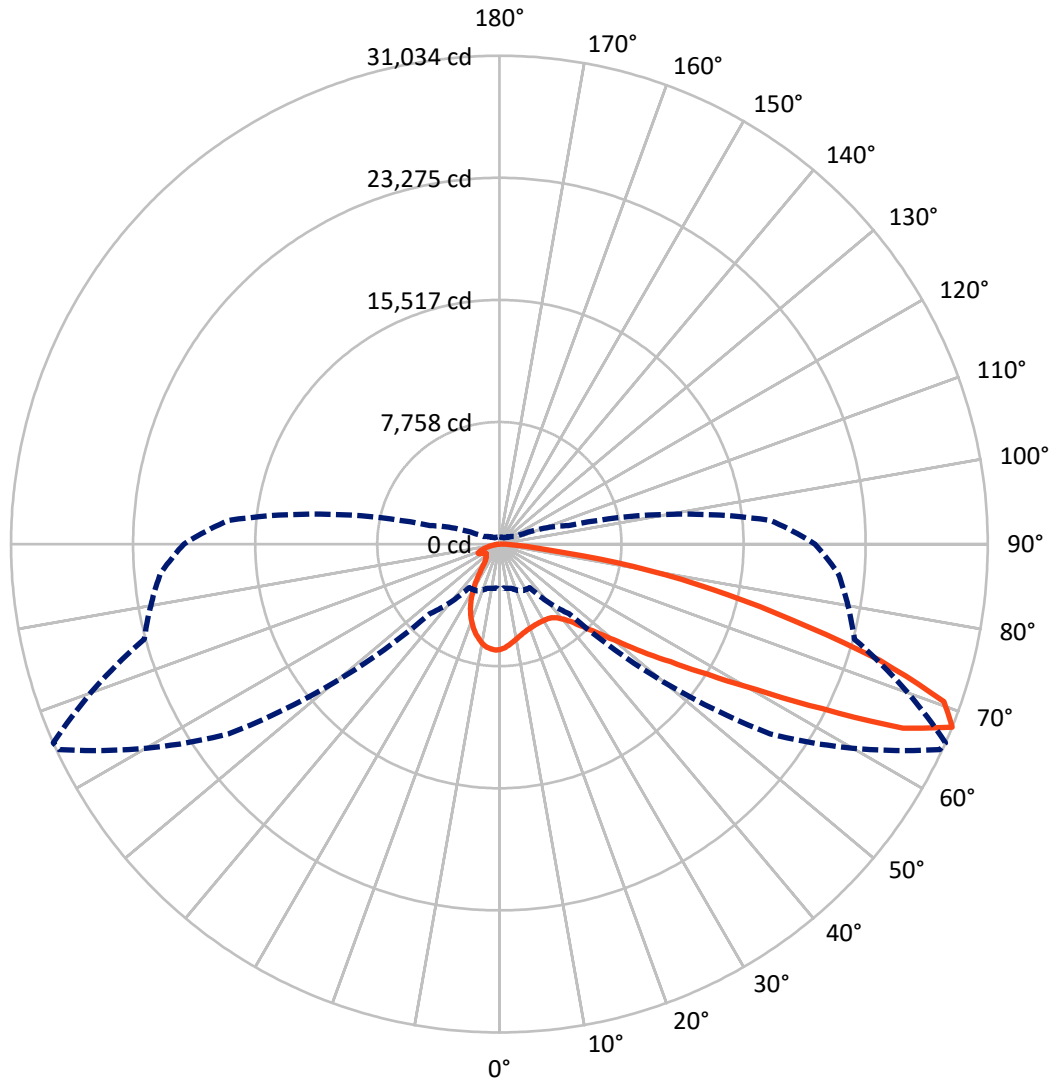
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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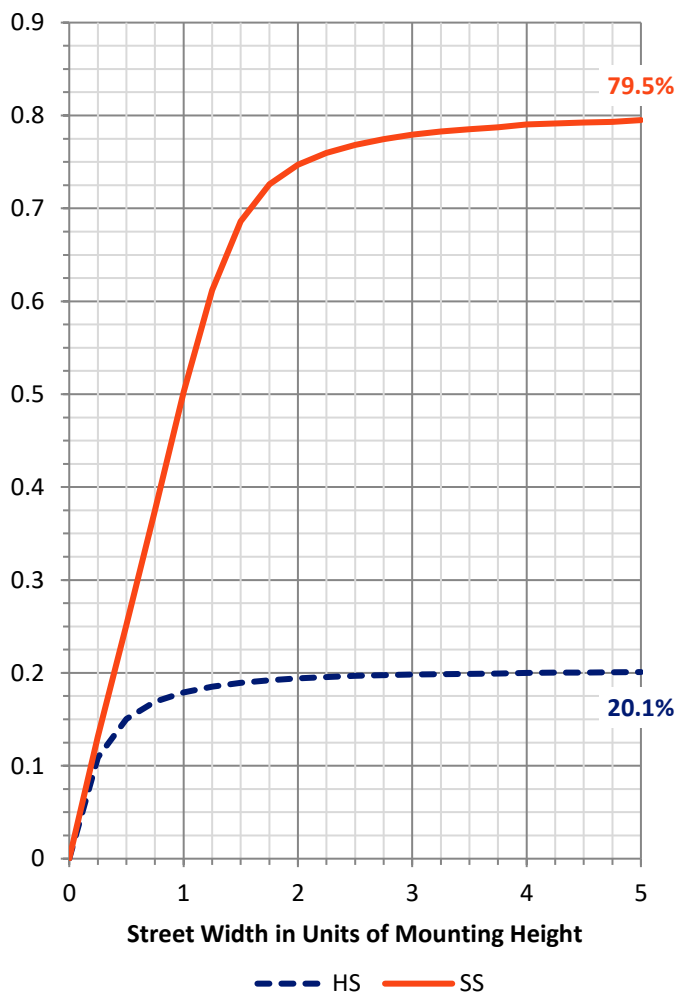
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6156.8	0.0	6156.8
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	24183.5	0.0	24183.5
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	30340.3	0.0	30340.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	588.4	1.9
10°-20°	1446.0	4.8
20°-30°	1987.6	6.6
30°-40°	2717.4	9.0
40°-50°	4117.6	13.6
50°-60°	6400.9	21.1
60°-70°	7793.0	25.7
70°-80°	4747.1	15.6
80°-90°	542.2	1.8
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°	30340.3	100.0
0°-180°	30340.3	100.0

**Coefficient of Utilization**



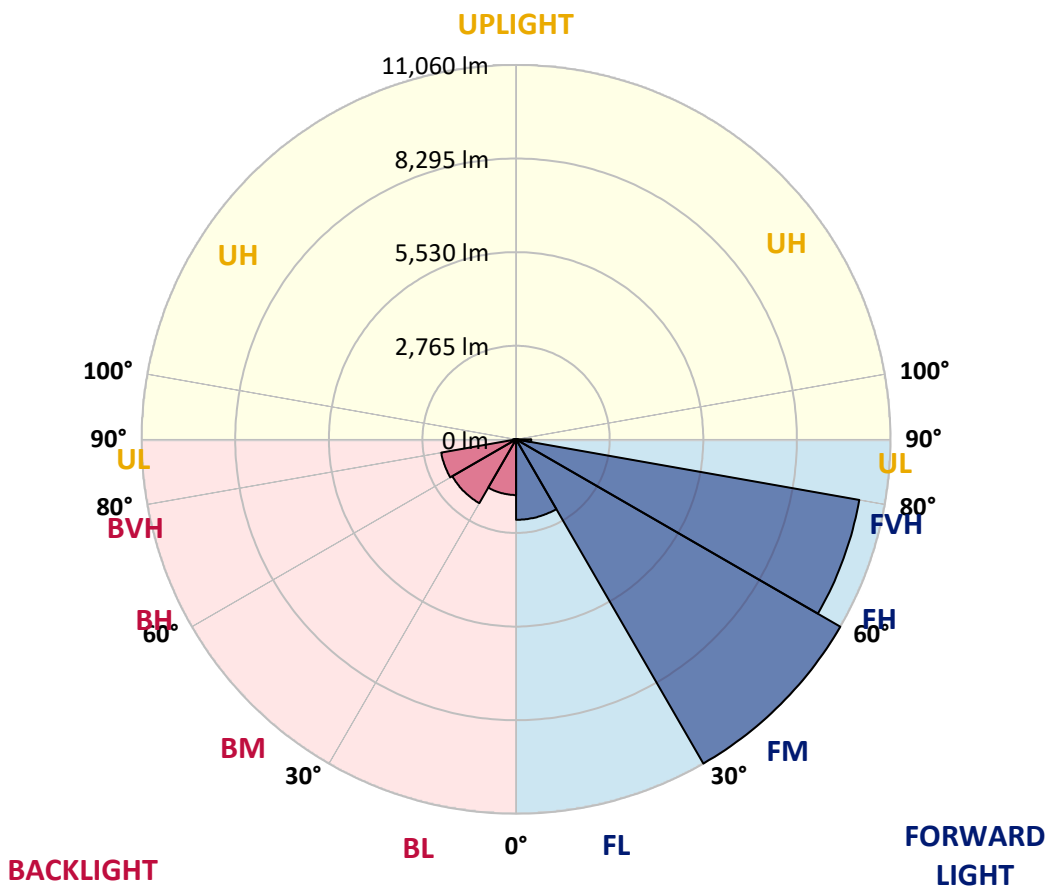
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2377.3	7.8			
FM (30°-60°)	11060.2	36.5			
FH (60°-80°)	10295.2	33.9			G4/12000
FVH (80°-90°)	450.8	1.5			G3/500
BL (0°-30°)	1644.8	5.4	B3/2500		
BM (30°-60°)	2175.7	7.2	B2/2500		
BH (60°-80°)	2244.9	7.4	B3/2500		G3/2500
BVH (80°-90°)	91.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6704.3	6704.3	6704.3	6704.3	6704.3	6704.3	6704.3	6704.3	6704.3	6704.3	6704.3
2.5°	6279.4	6301.5	6288.2	6372.3	6376.8	6483.0	6542.8	6593.7	6598.1	6664.5	6708.8
5°	5850.0	5863.3	5863.3	5942.9	5996.1	6137.7	6274.9	6421.0	6432.1	6591.5	6713.2
7.5°	5502.5	5515.8	5506.9	5613.1	5681.8	5838.9	6013.8	6237.3	6259.5	6516.2	6728.7
10°	5230.2	5225.8	5247.9	5345.3	5433.9	5622.0	5816.8	6071.3	6104.5	6429.9	6746.4
12.5°	5044.3	5048.7	5062.0	5163.8	5259.0	5444.9	5646.3	5923.0	5958.4	6330.3	6737.5
15°	4955.8	4946.9	4958.0	5050.9	5141.7	5305.5	5513.5	5799.1	5834.5	6241.7	6739.8
17.5°	4935.8	4929.2	4927.0	4993.4	5062.0	5214.7	5413.9	5703.9	5741.5	6184.2	6753.0
20°	4997.8	4989.0	4964.6	4993.4	5022.2	5150.5	5343.1	5635.3	5677.3	6146.6	6779.6
22.5°	5168.3	5152.8	5115.1	5079.7	5042.1	5119.6	5298.8	5584.4	5626.4	6122.2	6806.2
25°	5427.2	5413.9	5374.1	5294.4	5157.2	5143.9	5290.0	5562.2	5604.3	6104.5	6817.2
27.5°	5783.6	5763.7	5723.8	5608.7	5385.2	5234.7	5323.2	5560.0	5599.9	6084.6	6806.2
30°	6206.3	6193.1	6170.9	6031.5	5732.7	5427.2	5398.4	5577.7	5608.7	6073.5	6784.0
32.5°	6635.7	6622.4	6640.2	6573.8	6206.3	5745.9	5562.2	5626.4	5648.6	6071.3	6764.1
35°	7014.2	7029.7	7158.1	7169.2	6808.4	6177.6	5821.2	5739.3	5743.7	6115.6	6773.0
37.5°	7410.4	7470.2	7638.4	7782.3	7481.2	6748.6	6206.3	5951.8	5947.4	6228.5	6828.3
40°	7935.0	7961.5	8176.2	8446.3	8258.1	7532.2	6753.0	6299.3	6268.3	6458.7	6976.6
42.5°	8446.3	8510.5	8853.5	9163.4	9101.4	8415.3	7441.4	6819.4	6764.1	6865.9	7282.0
45°	9097.0	9159.0	9544.1	9942.5	10055.4	9413.5	8322.3	7558.7	7503.4	7479.0	7842.0
47.5°	9747.8	9811.9	10157.2	10732.7	11128.9	10661.9	9468.9	8534.8	8444.1	8348.9	8687.5
50°	10186.0	10261.3	10591.0	11281.6	12211.2	12220.1	10827.9	9814.2	9699.1	9548.5	9878.3
52.5°	10170.5	10219.2	10533.5	11330.3	12990.4	14010.7	12647.3	11443.2	11350.2	11022.7	11310.4
55°	9371.5	9444.5	9761.0	10757.1	13074.5	15708.4	15321.1	13364.4	13198.4	12611.9	12928.4
57.5°	7766.8	7828.7	8147.5	9375.9	12328.6	16578.3	18716.4	15812.4	15584.4	14342.7	14707.9
60°	5863.3	5788.0	5938.5	7014.2	10544.6	16600.4	21713.3	19132.5	18751.8	16193.1	16498.6
62.5°	4400.2	4325.0	4358.2	4661.4	7149.2	15259.1	23422.0	23674.4	23045.8	18282.6	18222.8
65°	3477.2	3435.2	3530.3	3738.4	4167.8	11620.3	23435.3	28585.9	28189.7	20704.0	19991.3
67.5°	2833.1	2806.6	2904.0	3289.1	3379.8	6244.0	21013.9	30878.9	31033.9	23355.6	21631.4
70°	2282.0	2242.2	2394.9	2901.7	3143.0	3778.2	15053.2	29710.3	29960.4	24936.0	21168.8
72.5°	1575.9	1578.1	1655.6	2350.6	3034.6	3262.5	8514.9	24739.0	25281.3	23503.9	18610.1
75°	1062.4	1071.3	1093.4	1551.6	2795.5	3165.1	4537.4	18729.7	19112.6	19426.9	15383.0
77.5°	641.9	646.3	697.2	938.5	1927.9	2954.9	3074.4	13576.9	13877.9	12806.6	9535.3
80°	371.8	387.3	433.8	628.6	1301.5	2220.0	2379.4	8324.5	8665.4	5692.8	3030.1
82.5°	163.8	174.9	236.8	365.2	759.2	1888.0	1857.0	3289.1	3240.4	1587.0	1051.4
85°	28.8	35.4	50.9	115.1	278.9	996.0	1440.9	1452.0	1365.7	602.0	436.0
87.5°	0.0	0.0	0.0	0.0	0.0	6.6	216.9	389.6	387.3	170.4	150.5
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°	6704.3	6704.3	6704.3	6704.3	6704.3	6704.3	6704.3	6704.3	6704.3	6704.3	6704.3
2.5°	6737.5	6677.8	6730.9	6737.5	6726.5	6717.6	6651.2	6593.7	6587.0	6525.1	6525.1
5°	6761.9	6706.6	6733.1	6682.2	6602.5	6520.6	6379.0	6281.6	6237.3	6157.6	6157.6
7.5°	6795.1	6737.5	6706.6	6580.4	6394.5	6215.2	5987.2	5796.9	5719.4	5606.5	5602.1
10°	6826.1	6753.0	6646.8	6401.1	6104.5	5819.0	5487.0	5216.9	5033.2	4898.2	4898.2
12.5°	6823.9	6728.7	6518.4	6155.4	5745.9	5332.0	4889.4	4482.1	4238.6	4028.4	4015.1
15°	6819.4	6688.9	6354.6	5869.9	5327.6	4754.4	4152.3	3621.1	3260.3	3054.5	3036.8
17.5°	6815.0	6637.9	6170.9	5544.5	4818.5	4037.2	3242.6	2667.1	2366.1	2239.9	2244.4
20°	6815.0	6580.4	5973.9	5170.5	4232.0	3178.4	2379.4	1961.1	1885.8	1892.4	1899.1
22.5°	6795.1	6509.6	5754.8	4763.2	3579.0	2337.3	1755.2	1613.6	1653.4	1715.4	1724.2
25°	6748.6	6392.3	5500.3	4311.7	2802.1	1702.1	1432.1	1405.5	1478.5	1556.0	1578.1
27.5°	6675.6	6257.2	5214.7	3782.7	2062.9	1367.9	1259.4	1257.2	1314.8	1372.3	1392.2
30°	6598.1	6106.7	4913.7	3193.9	1494.0	1190.8	1148.7	1148.7	1177.5	1212.9	1208.5
32.5°	6507.4	5954.0	4590.6	2580.8	1217.4	1091.2	1077.9	1071.3	1075.7	1089.0	1089.0
35°	6429.9	5819.0	4258.6	1932.3	1091.2	1035.9	1022.6	1007.1	1000.5	991.6	996.0
37.5°	6401.1	5712.7	3915.5	1456.4	1029.2	996.0	973.9	951.8	936.3	931.8	929.6
40°	6447.6	5668.5	3572.4	1199.7	985.0	954.0	929.6	900.8	887.6	887.6	887.6
42.5°	6629.1	5701.7	3222.7	1084.6	954.0	918.6	883.1	856.6	852.2	856.6	858.8
45°	6961.1	5830.1	2859.7	1027.0	927.4	883.1	841.1	821.2	821.2	825.6	825.6
47.5°	7554.3	6166.5	2501.1	991.6	900.8	854.4	810.1	790.2	788.0	792.4	792.4
50°	8581.3	6773.0	2178.0	967.2	880.9	832.2	788.0	761.4	754.8	752.6	752.6
52.5°	9876.1	7824.3	1972.1	949.5	856.6	807.9	763.6	728.2	714.9	708.3	708.3
55°	11441.0	9225.4	1972.1	936.3	825.6	779.1	728.2	692.8	672.9	664.0	664.0
57.5°	13213.9	10856.7	2313.0	925.2	801.2	745.9	690.6	655.2	633.0	619.7	619.7
60°	15017.8	12580.9	3156.3	909.7	779.1	703.9	648.5	615.3	586.5	571.1	568.8
62.5°	16888.1	14480.0	4267.4	918.6	763.6	664.0	604.3	566.6	542.3	526.8	524.6
65°	18601.3	16288.3	5239.1	987.2	765.8	628.6	553.3	520.1	500.2	480.3	478.1
67.5°	20055.5	17286.5	4557.4	1126.6	812.3	586.5	502.4	469.2	451.5	438.3	436.0
70°	19037.3	15763.7	2585.2	1212.9	876.5	542.3	444.9	422.8	405.0	396.2	394.0
72.5°	16279.5	13346.7	1728.7	1071.3	799.0	484.7	391.8	374.1	360.8	349.7	347.5
75°	13187.4	10584.4	1321.4	878.7	622.0	394.0	336.4	323.2	309.9	298.8	296.6
77.5°	7802.2	6115.6	973.9	695.0	438.3	307.7	278.9	267.8	254.5	245.7	243.5
80°	2490.1	2124.9	617.5	478.1	290.0	236.8	214.7	205.8	192.6	181.5	179.3
82.5°	949.5	821.2	327.6	243.5	192.6	161.6	143.9	135.0	126.2	115.1	112.9
85°	420.5	394.0	181.5	130.6	104.0	79.7	70.8	66.4	55.3	46.5	44.3
87.5°	148.3	148.3	77.5	37.6	22.1	11.1	6.6	2.2	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)