

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: P635849

Luminaire Tested: GWS-SA3E-750-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635849  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3E-750-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

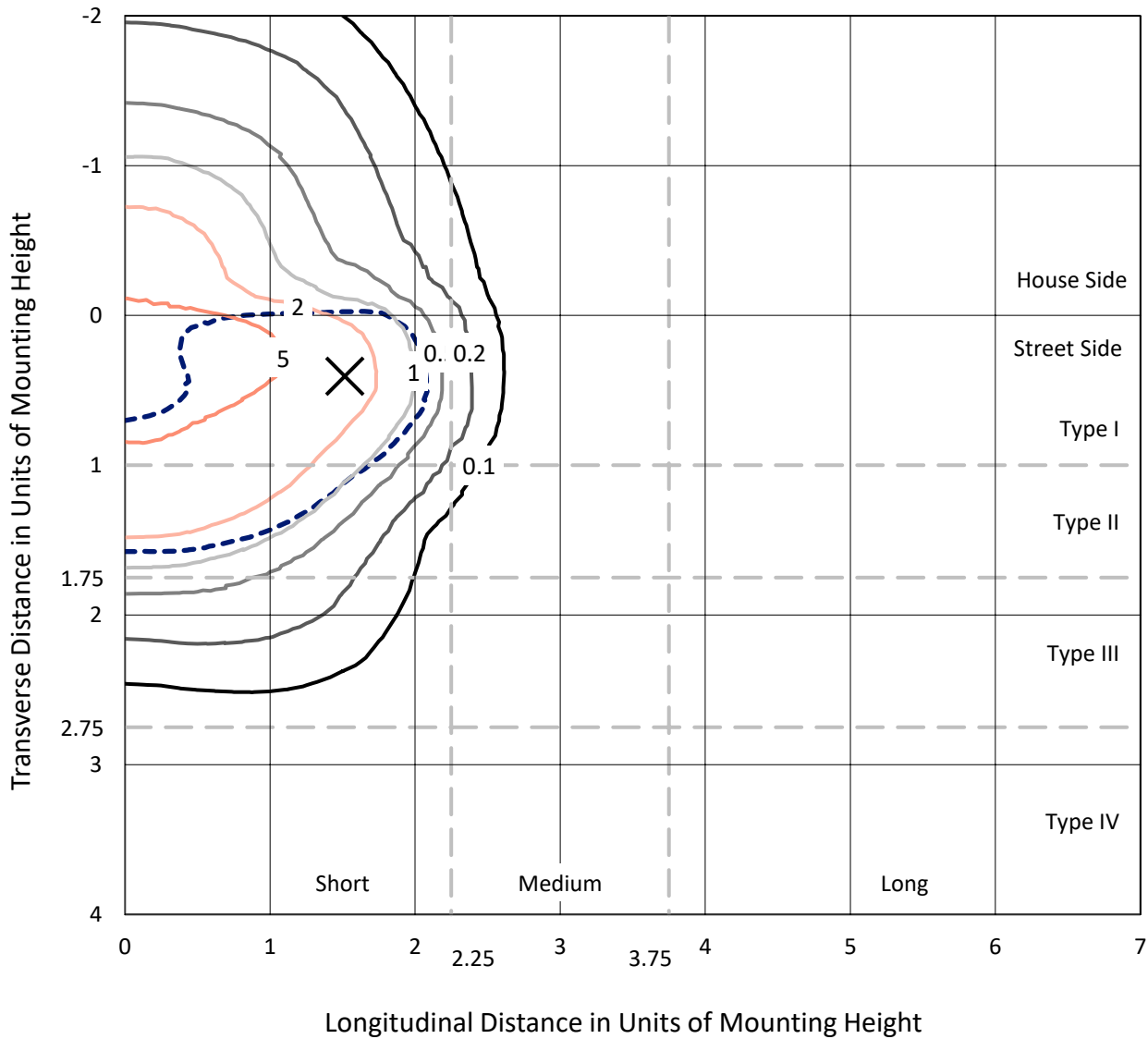
Lumens per Lamp: N/A  
Luminaire Lumens: 18755 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

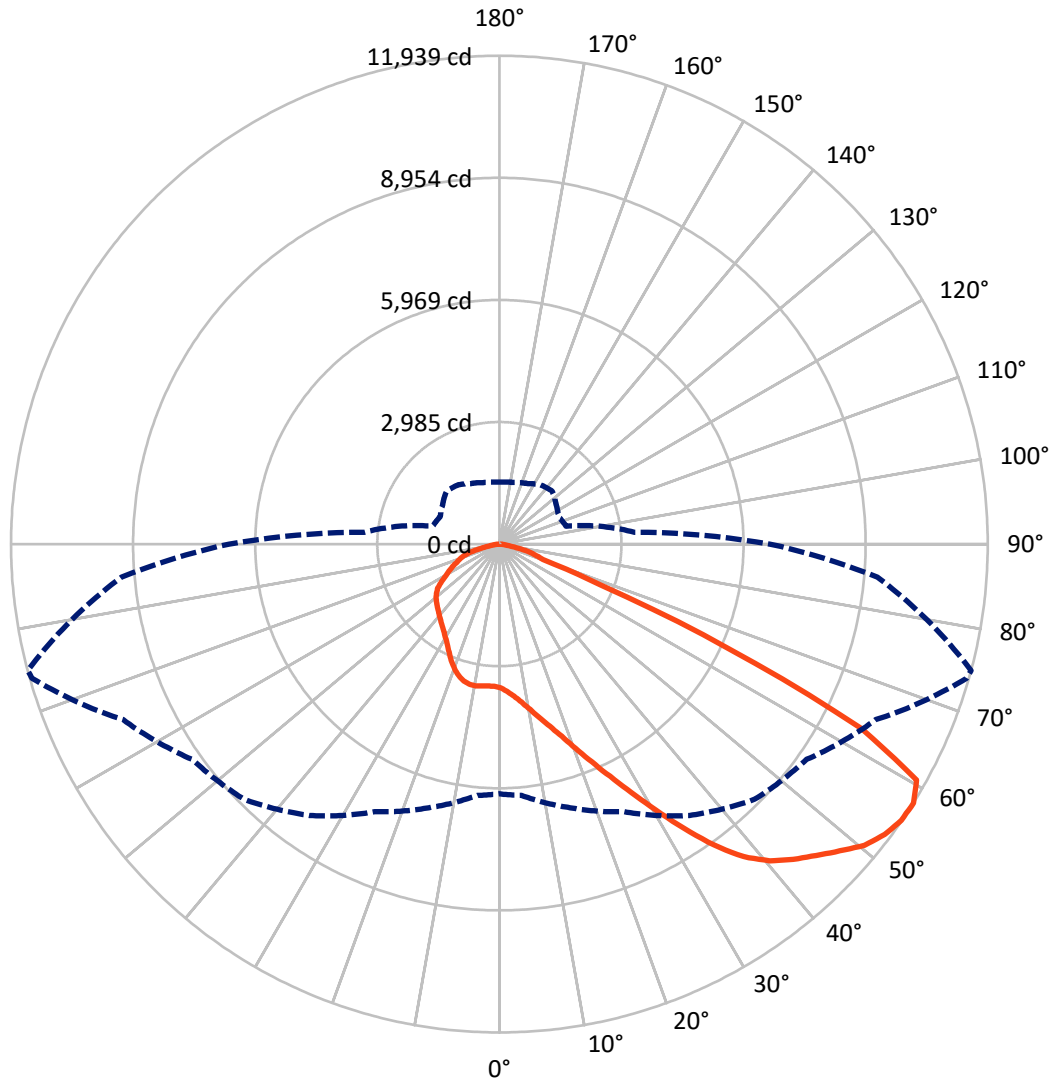
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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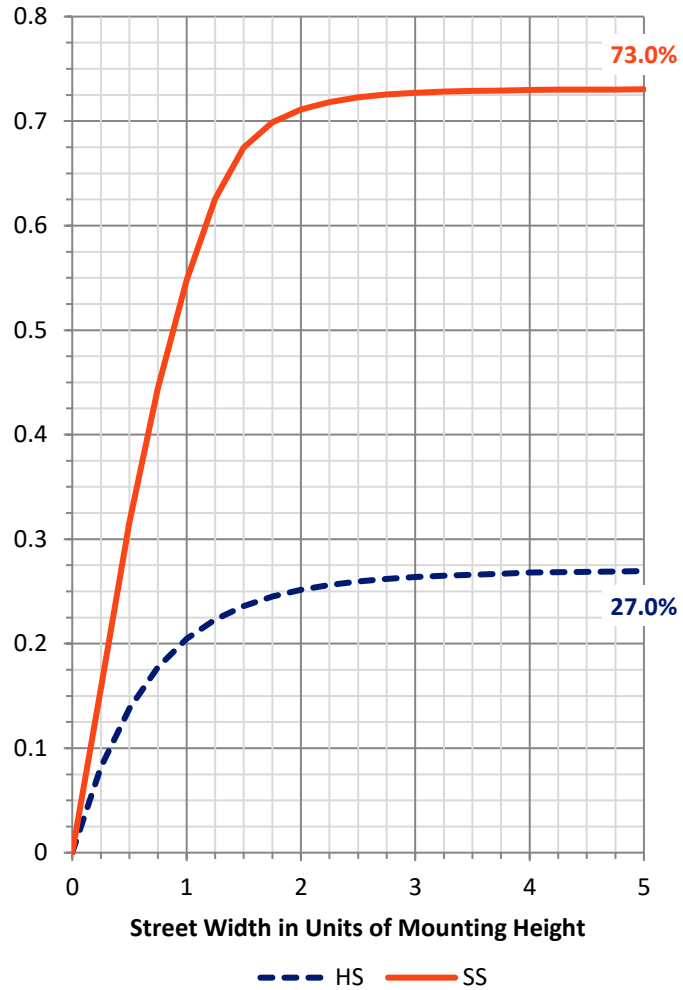
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5073.6	0.0	5073.6
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	13681.4	0.0	13681.4
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	18755.0	0.0	18755.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.5	1.9
10°-20°	1119.0	6.0
20°-30°	1984.6	10.6
30°-40°	3038.1	16.2
40°-50°	4230.2	22.6
50°-60°	4847.1	25.8
60°-70°	2490.5	13.3
70°-80°	627.0	3.3
80°-90°	67.0	0.4
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°	18755.0	100.0
0°-180°	18755.0	100.0

**Coefficient of Utilization**



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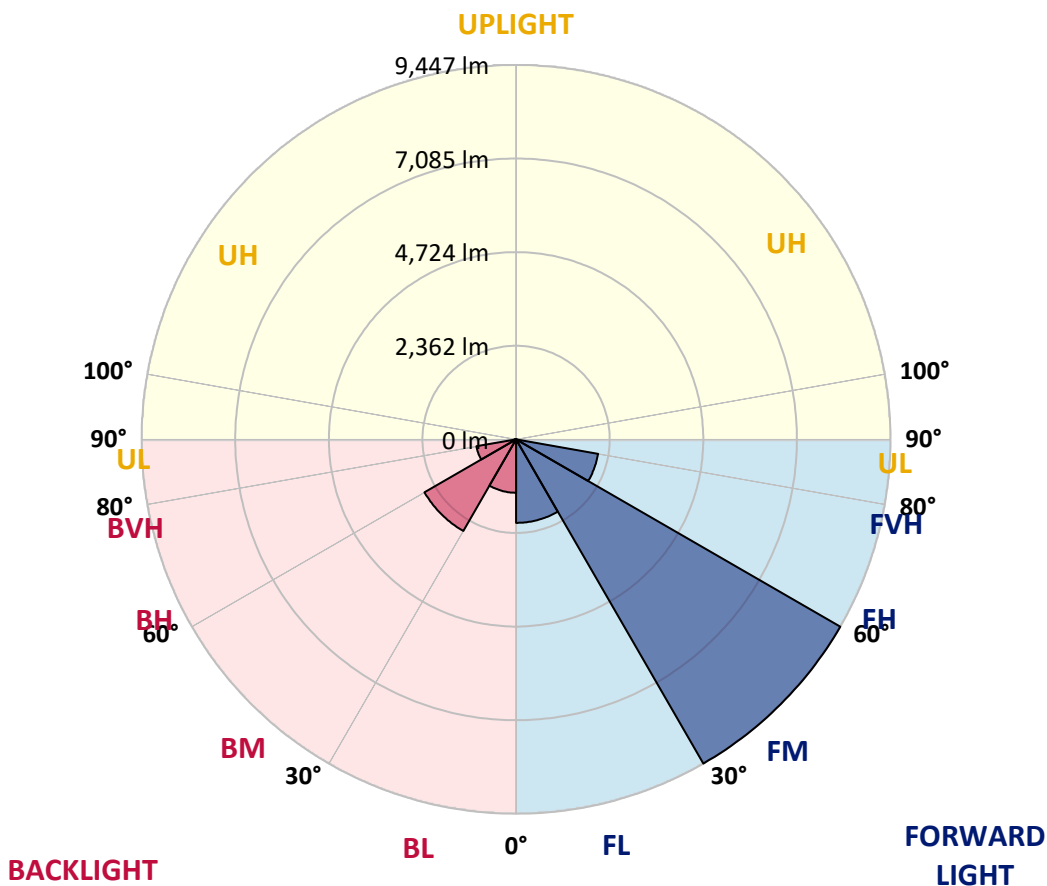
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2107.2	11.2			
FM (30°-60°)	9447.1	50.4			
FH (60°-80°)	2102.2	11.2			G2/5000
FVH (80°-90°)	24.8	0.1			G1/100
BL (0°-30°)	1347.9	7.2	B3/2500		
BM (30°-60°)	2668.3	14.2	B3/5000		
BH (60°-80°)	1015.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	42.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4
2.5°	3773.6	3783.3	3773.6	3789.7	3757.5	3743.0	3707.5	3654.3	3612.3	3605.9	3559.1
5°	4067.1	4088.1	4075.2	4068.7	4025.2	3992.9	3939.7	3833.3	3746.2	3733.3	3641.4
7.5°	4255.8	4270.3	4270.3	4275.1	4259.0	4221.9	4165.5	4039.7	3917.1	3897.8	3759.1
10°	4318.7	4330.0	4350.9	4391.3	4423.5	4434.8	4397.7	4276.8	4126.8	4107.4	3913.9
12.5°	4333.2	4346.1	4378.4	4452.5	4541.2	4621.9	4628.3	4539.6	4371.9	4350.9	4092.9
15°	4360.6	4373.5	4417.1	4509.0	4639.6	4794.4	4889.6	4828.3	4642.8	4620.3	4296.1
17.5°	4357.4	4371.9	4436.4	4559.0	4734.8	4958.9	5142.8	5168.6	4976.7	4937.9	4526.7
20°	4349.3	4362.2	4431.6	4581.6	4799.3	5107.3	5439.5	5573.3	5366.9	5331.4	4796.0
22.5°	4413.8	4428.3	4481.6	4605.7	4833.1	5221.8	5713.6	6036.2	5829.7	5779.8	5105.7
25°	4559.0	4579.9	4612.2	4697.7	4894.4	5323.4	5994.2	6560.3	6349.0	6289.4	5442.7
27.5°	4783.1	4808.9	4854.1	4894.4	5031.5	5452.4	6273.2	7147.3	6936.0	6873.1	5799.1
30°	5057.3	5091.1	5149.2	5176.6	5270.2	5642.7	6576.4	7752.0	7629.5	7542.4	6200.7
32.5°	5436.3	5483.0	5537.9	5545.9	5602.4	5931.3	6876.4	8351.9	8350.3	8289.0	6657.0
35°	5929.7	5979.7	5991.0	6002.3	6029.7	6328.1	7239.2	8898.6	9109.9	9038.9	7153.7
37.5°	6468.4	6540.9	6558.7	6508.7	6547.4	6805.4	7647.2	9337.3	9771.1	9695.3	7634.3
40°	7044.1	7073.1	7121.5	7042.5	7090.8	7352.1	8047.1	9617.9	10264.5	10183.9	8013.3
42.5°	7456.9	7510.1	7582.7	7553.7	7581.1	7819.8	8327.7	9753.3	10616.1	10535.5	8285.8
45°	7905.2	7921.4	7968.1	7961.7	7977.8	8200.3	8529.3	9813.0	10930.6	10858.0	8518.0
47.5°	8295.5	8319.7	8350.3	8314.8	8279.4	8424.5	8693.8	9864.6	11293.4	11206.3	8761.6
50°	8671.2	8692.2	8729.3	8626.1	8493.9	8530.9	8774.5	9935.6	11633.7	11572.4	8953.5
52.5°	8740.6	8763.2	8937.3	8958.3	8789.0	8658.3	8916.4	10092.0	11833.7	11795.0	9022.8
55°	7868.1	7908.5	8255.2	8653.5	9071.2	9029.3	9143.8	10174.2	11912.7	11922.4	9147.0
57.5°	6107.1	6165.2	6671.6	7218.2	8097.1	8824.4	9172.8	10153.3	11885.3	11938.5	9274.4
60°	4005.8	4039.7	4639.6	5252.4	6163.6	7169.9	8210.0	9775.9	11641.8	11717.5	9242.1
62.5°	2419.0	2457.7	2939.9	3404.3	3941.3	4613.8	5568.5	7856.9	9758.2	9927.5	7402.1
65°	1688.4	1740.1	2162.6	2544.8	2730.2	2591.5	2820.5	4388.0	6079.7	6150.7	4523.5
67.5°	1224.0	1259.5	1606.2	2061.0	2265.8	1830.4	1394.9	1943.2	2648.0	2673.8	1865.8
70°	801.5	841.8	1156.3	1569.1	1849.7	1483.6	1043.4	1051.5	1114.3	1127.2	1083.7
72.5°	440.3	464.4	714.4	1041.8	1093.4	887.0	814.4	874.1	917.6	917.6	928.9
75°	227.4	248.3	291.9	343.5	414.5	485.4	587.0	675.7	722.5	725.7	720.9
77.5°	116.1	124.2	156.4	169.3	185.5	216.1	280.6	359.6	401.6	417.7	414.5
80°	54.8	58.1	66.1	77.4	95.1	120.9	151.6	180.6	206.4	209.6	227.4
82.5°	29.0	32.3	35.5	41.9	51.6	64.5	88.7	106.4	122.6	125.8	140.3
85°	11.3	12.9	14.5	16.1	22.6	27.4	37.1	50.0	61.3	61.3	72.6
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	6.5	8.1	11.3	11.3	19.4
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°	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4
2.5°	3547.8	3501.1	3480.1	3446.2	3418.8	3388.2	3364.0	3346.3	3335.0	3328.5	3322.1
5°	3605.9	3534.9	3478.5	3410.8	3364.0	3318.8	3281.8	3255.9	3243.0	3233.4	3226.9
7.5°	3696.2	3601.1	3494.6	3389.8	3307.6	3235.0	3188.2	3160.8	3143.1	3136.6	3131.8
10°	3820.4	3688.1	3512.4	3346.3	3223.7	3144.7	3112.4	3099.5	3101.1	3097.9	3096.3
12.5°	3960.7	3780.1	3507.5	3268.9	3133.4	3086.6	3088.2	3109.2	3133.4	3139.8	3141.5
15°	4112.3	3870.4	3460.8	3168.9	3062.4	3067.3	3109.2	3159.2	3204.3	3222.1	3225.3
17.5°	4276.8	3946.2	3375.3	3059.2	3004.4	3056.0	3133.4	3215.6	3281.8	3310.8	3318.8
20°	4460.6	4010.7	3254.3	2951.2	2949.5	3035.0	3147.9	3255.9	3339.8	3378.5	3385.0
22.5°	4655.7	4051.0	3106.0	2851.2	2893.1	3007.6	3136.6	3249.5	3338.2	3376.9	3385.0
25°	4852.5	4063.9	2943.1	2759.3	2835.0	2964.1	3081.8	3172.1	3255.9	3289.8	3296.3
27.5°	5036.3	4026.8	2788.3	2680.2	2781.8	2899.6	2978.6	3027.0	3085.0	3110.8	3115.6
30°	5223.4	3952.6	2657.7	2617.3	2722.2	2810.9	2846.3	2849.6	2872.1	2872.1	2875.4
32.5°	5412.1	3843.0	2543.2	2556.1	2648.0	2706.0	2710.9	2673.8	2646.4	2601.2	2599.6
35°	5629.8	3731.7	2449.6	2486.7	2560.9	2596.4	2581.9	2510.9	2444.8	2370.6	2367.4
37.5°	5831.4	3617.2	2370.6	2415.8	2462.5	2488.3	2454.5	2369.0	2314.2	2238.4	2227.1
40°	5997.5	3514.0	2294.8	2341.6	2364.2	2386.7	2331.9	2262.6	2270.6	2228.7	2227.1
42.5°	6094.2	3414.0	2223.9	2259.3	2273.8	2290.0	2241.6	2190.0	2233.5	2201.3	2202.9
45°	6165.2	3326.9	2159.3	2172.2	2207.7	2231.9	2186.8	2128.7	2138.4	2014.2	1985.2
47.5°	6245.8	3278.5	2098.1	2085.2	2148.1	2190.0	2120.6	2036.8	1978.7	1856.2	1844.9
50°	6331.3	3260.8	2033.6	1998.1	2073.9	2114.2	2033.6	1928.7	1852.9	1786.8	1780.4
52.5°	6360.3	3259.2	1952.9	1893.3	1969.1	2025.5	1957.8	1851.3	1761.0	1696.5	1693.3
55°	6474.8	3305.9	1849.7	1749.7	1820.7	1936.8	1886.8	1733.6	1661.0	1632.0	1628.8
57.5°	6608.7	3314.0	1686.8	1593.3	1691.7	1828.8	1765.9	1633.6	1554.6	1519.1	1515.9
60°	6553.8	3115.6	1512.7	1474.0	1582.0	1727.2	1669.1	1554.6	1462.7	1428.8	1425.6
62.5°	4994.4	2199.7	1385.3	1370.8	1464.3	1580.4	1569.1	1449.8	1362.7	1338.5	1335.3
65°	3004.4	1544.9	1262.7	1261.1	1327.2	1438.5	1453.0	1356.2	1264.3	1230.5	1230.5
67.5°	1485.3	1182.1	1124.0	1116.0	1157.9	1236.9	1298.2	1219.2	1141.8	1109.5	1104.7
70°	1049.8	1041.8	1022.4	999.8	1007.9	1040.2	1066.0	999.8	917.6	885.3	878.9
72.5°	907.9	909.5	896.6	878.9	872.4	849.9	827.3	778.9	728.9	695.1	698.3
75°	704.7	708.0	716.0	709.6	691.8	667.6	643.4	582.2	541.9	509.6	503.1
77.5°	411.2	427.4	453.2	446.7	449.9	416.1	406.4	346.7	309.6	287.1	282.2
80°	232.2	241.9	253.2	261.3	251.6	237.1	216.1	183.8	172.6	156.4	153.2
82.5°	140.3	150.0	154.8	161.3	158.0	138.7	122.6	101.6	91.9	83.9	82.2
85°	71.0	77.4	82.2	85.5	75.8	62.9	56.4	45.2	38.7	33.9	33.9
87.5°	17.7	19.4	22.6	19.4	17.7	8.1	6.5	1.6	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)