

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: P640193

Luminaire Tested: GWS-SA5D-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-735-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17599.7 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

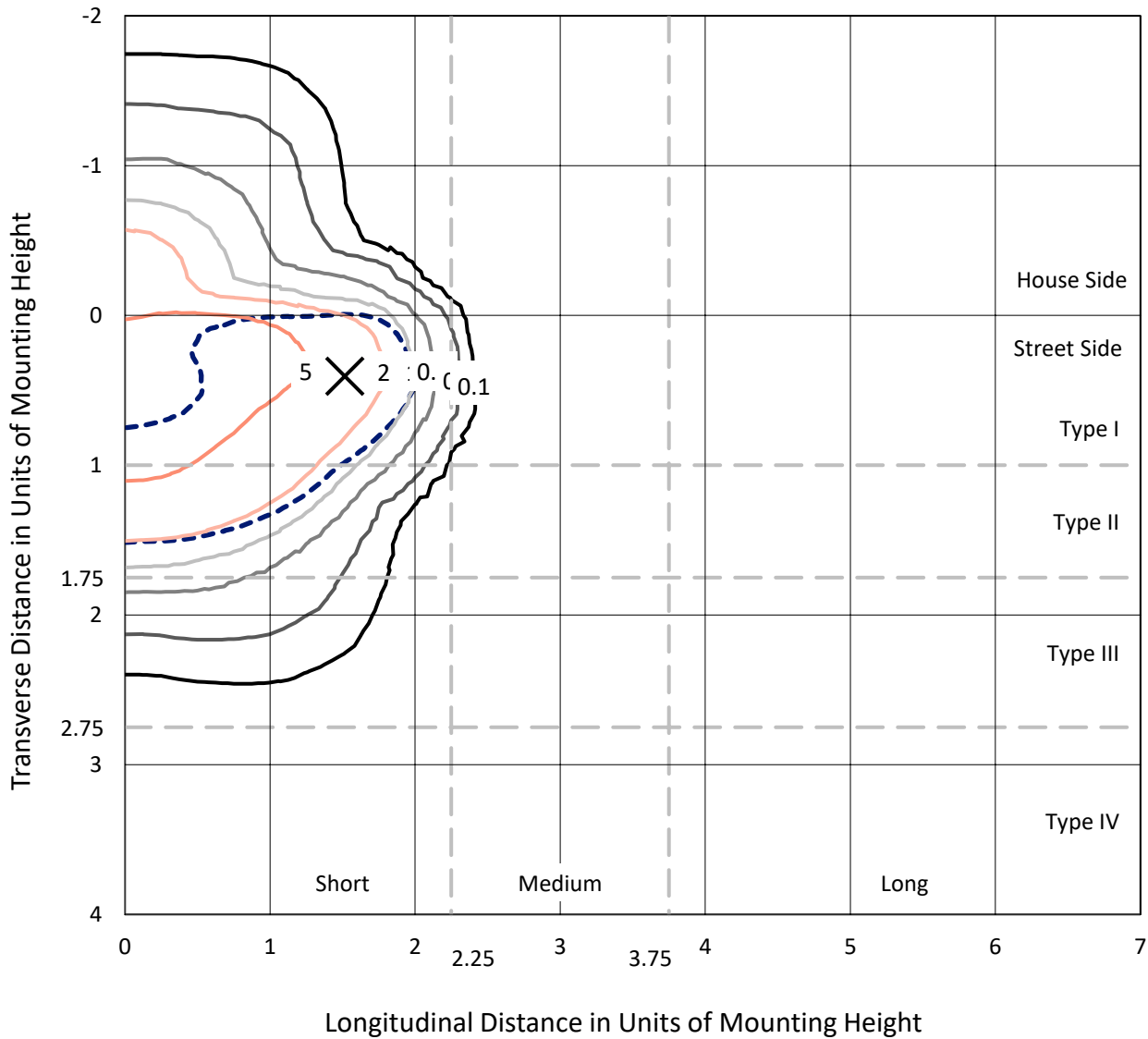
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

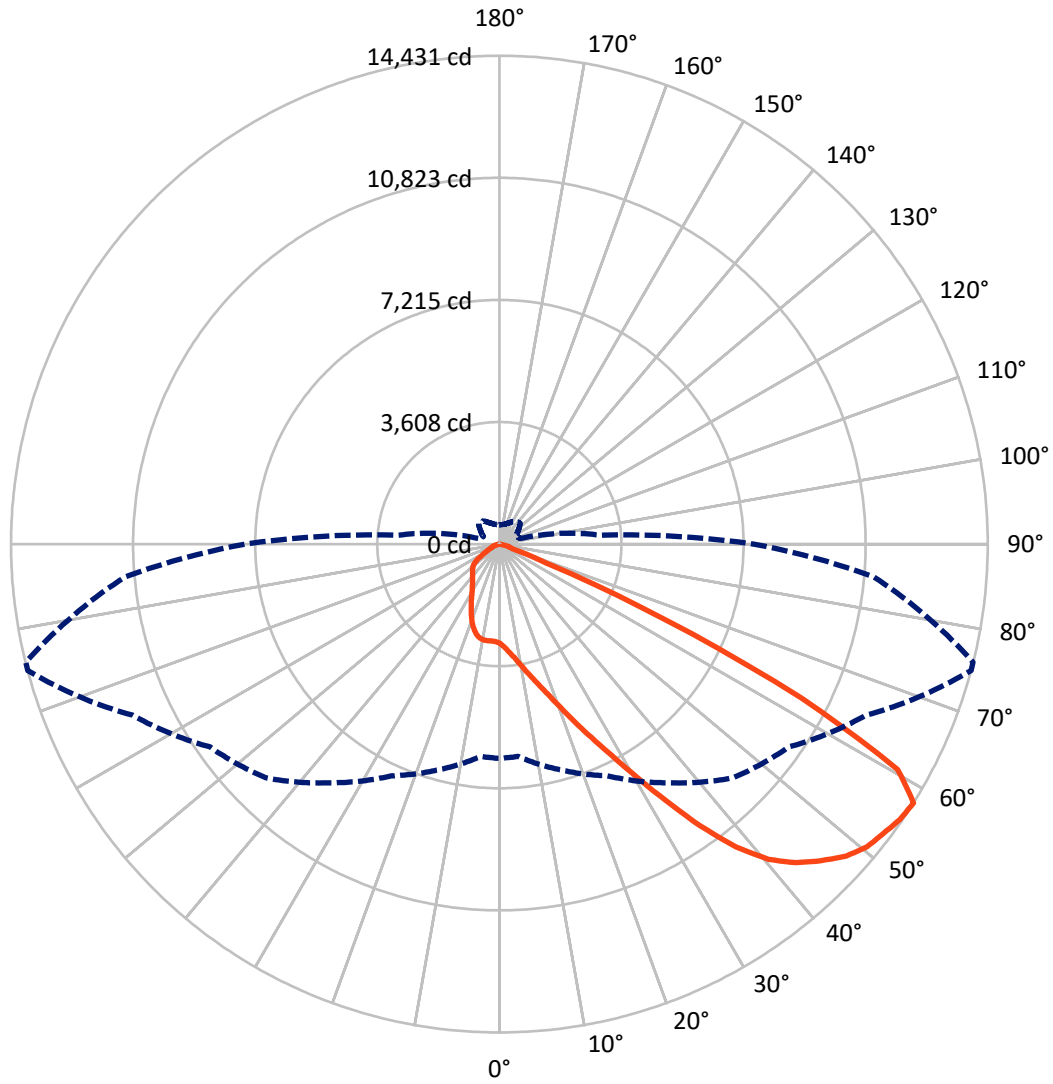
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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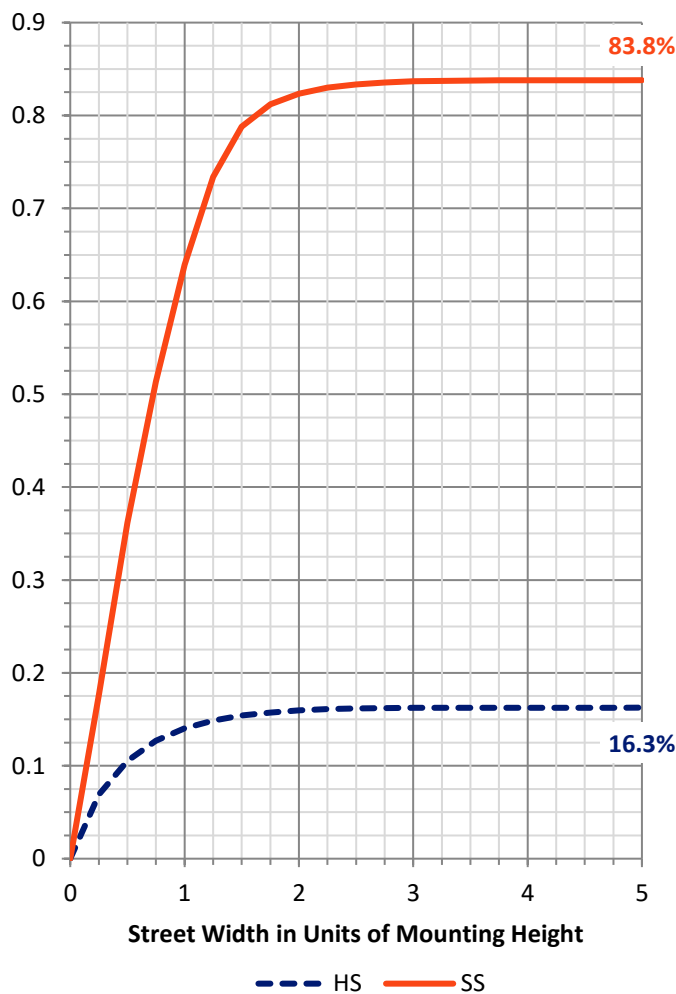
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2874.9	0.0	2874.9
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	14724.8	0.0	14724.8
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	17599.7	0.0	17599.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.7	1.7
10°-20°	970.3	5.5
20°-30°	1776.9	10.1
30°-40°	2948.0	16.8
40°-50°	4502.3	25.6
50°-60°	5059.1	28.7
60°-70°	1866.0	10.6
70°-80°	178.4	1.0
80°-90°	0.1	0.0
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°	17599.7	100.0
0°-180°	17599.7	100.0

**Coefficient of Utilization**



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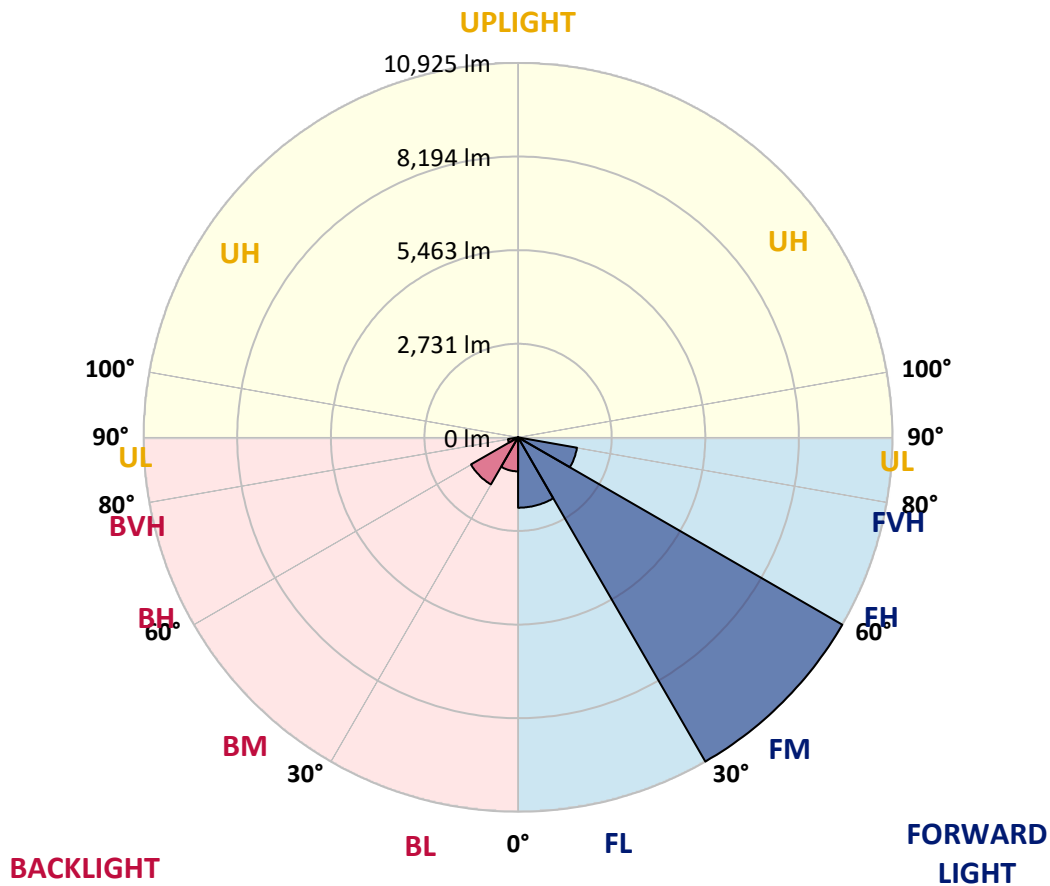
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2053.8	11.7			
FM (30°-60°)	10925.1	62.1			
FH (60°-80°)	1745.8	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	992.0	5.6	B2/1000		
BM (30°-60°)	1584.2	9.0	B2/2500		
BH (60°-80°)	298.5	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4
2.5°	3279.5	3313.5	3302.8	3281.6	3268.9	3224.3	3196.6	3115.9	3058.6	3052.2	2999.1
5°	3693.7	3687.3	3678.8	3653.3	3632.1	3562.0	3479.1	3343.2	3222.1	3207.3	3094.7
7.5°	3920.9	3925.2	3929.4	3925.2	3910.3	3857.2	3765.9	3606.6	3421.8	3409.0	3230.6
10°	4014.4	4022.9	4044.1	4084.5	4120.6	4116.3	4063.2	3899.7	3672.4	3651.2	3411.2
12.5°	4059.0	4069.6	4103.6	4180.1	4277.8	4354.2	4362.7	4216.2	3965.5	3931.5	3625.7
15°	4120.6	4131.2	4173.7	4273.5	4415.8	4566.6	4664.3	4570.9	4290.5	4254.4	3861.5
17.5°	4148.2	4163.1	4224.7	4356.3	4541.1	4772.7	4993.6	4985.1	4675.0	4647.3	4135.5
20°	4201.3	4211.9	4267.1	4409.4	4632.5	4965.9	5337.6	5471.5	5144.4	5104.0	4466.8
22.5°	4369.1	4373.3	4398.8	4488.0	4696.2	5106.1	5688.1	6038.6	5698.7	5645.6	4838.5
25°	4643.1	4641.0	4651.6	4666.5	4819.4	5248.4	6025.8	6677.9	6333.8	6276.5	5259.1
27.5°	4991.4	4991.4	5016.9	4974.4	5036.0	5424.7	6359.3	7412.8	7073.0	6992.2	5720.0
30°	5401.4	5399.2	5458.7	5390.7	5409.9	5703.0	6718.3	8213.6	7965.0	7865.2	6251.0
32.5°	5957.9	5945.1	6013.1	5919.6	5855.9	6123.5	7155.8	9050.4	9033.4	8880.5	6917.9
35°	6660.9	6639.7	6660.9	6569.6	6454.9	6711.9	7729.3	9885.2	10218.6	10057.2	7712.3
37.5°	7359.7	7427.7	7451.0	7293.9	7200.4	7457.4	8419.6	10632.8	11350.7	11182.9	8538.5
40°	8183.8	8162.6	8243.3	8067.0	8007.5	8292.1	9095.0	11189.3	12247.1	12087.8	9273.4
42.5°	8791.3	8829.5	8929.3	8831.6	8784.9	9052.5	9662.1	11514.3	12869.4	12712.2	9798.1
45°	9519.8	9547.4	9585.7	9505.0	9456.1	9719.5	10072.1	11656.6	13343.0	13173.1	10150.7
47.5°	10307.8	10329.1	10329.1	10163.4	10006.2	10114.5	10346.1	11737.3	13778.5	13614.9	10411.9
50°	10872.8	10883.4	10976.9	10860.1	10518.1	10350.3	10471.4	11815.9	14067.3	13914.4	10496.9
52.5°	10371.6	10358.8	10666.8	10908.9	11000.3	10666.8	10688.0	11930.6	14207.5	14075.8	10564.8
55°	8733.9	8712.7	9146.0	9734.3	10539.3	10966.3	10949.3	11998.5	14362.6	14281.9	10811.2
57.5°	6331.7	6295.6	6898.8	7553.0	8608.6	9766.2	10445.9	11960.3	14430.5	14424.2	11098.0
60°	3806.2	3776.5	4345.7	5033.9	5849.5	7013.5	8141.3	10713.5	13521.5	13534.2	10352.4
62.5°	2342.8	2370.4	2884.4	3234.9	3538.6	3889.1	4541.1	7206.8	10016.8	10099.7	7274.7
65°	1576.0	1597.3	2073.0	2514.8	2514.8	2056.0	1765.1	3445.1	5344.0	5203.8	3440.9
67.5°	1057.8	1081.1	1457.1	1973.2	2047.5	1433.7	715.8	1028.0	1488.9	1444.3	851.7
70°	622.3	647.8	970.7	1353.0	1491.1	998.3	477.9	435.4	422.7	409.9	331.3
72.5°	278.2	288.9	494.9	688.2	628.7	420.6	337.7	348.3	329.2	322.8	269.7
75°	85.0	89.2	127.4	148.7	150.8	150.8	203.9	274.0	259.1	261.3	208.2
77.5°	21.2	21.2	34.0	31.9	17.0	14.9	38.2	61.6	63.7	57.3	42.5
80°	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4
2.5°	2975.7	2920.5	2884.4	2833.4	2797.3	2759.1	2725.1	2697.5	2682.6	2678.4	2680.5
5°	3043.7	2956.6	2871.7	2774.0	2706.0	2642.3	2591.3	2550.9	2531.8	2525.5	2525.5
7.5°	3147.8	3026.7	2875.9	2723.0	2608.3	2508.5	2449.0	2404.4	2387.4	2383.1	2370.4
10°	3283.7	3118.0	2869.5	2631.7	2470.2	2366.1	2323.7	2310.9	2317.3	2319.4	2317.3
12.5°	3447.3	3213.6	2829.2	2497.8	2323.7	2259.9	2264.2	2298.2	2336.4	2355.5	2359.8
15°	3621.4	3300.7	2737.9	2338.5	2198.4	2196.2	2257.8	2336.4	2410.8	2442.6	2451.1
17.5°	3816.9	3370.8	2597.7	2168.6	2090.0	2151.6	2262.1	2383.1	2483.0	2536.1	2546.7
20°	4031.4	3428.2	2419.2	2009.3	1994.4	2104.9	2257.8	2406.5	2529.7	2589.2	2599.8
22.5°	4254.4	3468.5	2213.2	1862.8	1907.4	2051.8	2217.5	2361.9	2478.7	2546.7	2555.2
25°	4509.3	3472.8	2002.9	1739.6	1826.7	1979.6	2119.8	2238.7	2336.4	2395.9	2402.3
27.5°	4732.3	3421.8	1816.0	1639.7	1752.3	1890.4	1983.8	2049.7	2117.6	2151.6	2153.7
30°	4989.3	3332.6	1639.7	1559.0	1675.8	1779.9	1826.7	1841.5	1847.9	1854.3	1845.8
32.5°	5295.2	3224.3	1508.0	1480.4	1588.8	1658.9	1671.6	1641.9	1605.8	1554.8	1542.0
35°	5671.1	3126.5	1399.7	1404.0	1493.2	1535.7	1525.0	1461.3	1391.2	1329.6	1319.0
37.5°	6078.9	3043.7	1316.9	1329.6	1389.1	1418.8	1387.0	1316.9	1285.0	1231.9	1234.1
40°	6440.0	2975.7	1242.5	1255.3	1282.9	1310.5	1259.5	1212.8	1272.3	1268.0	1272.3
42.5°	6697.0	2918.4	1178.8	1172.5	1191.6	1210.7	1172.5	1149.1	1248.9	1221.3	1236.2
45°	6847.8	2865.3	1125.7	1087.5	1117.2	1151.2	1125.7	1096.0	1130.0	1002.5	991.9
47.5°	6949.8	2835.6	1079.0	1004.7	1057.8	1117.2	1064.1	991.9	943.1	832.6	824.1
50°	6960.4	2820.7	1023.8	919.7	987.7	1051.4	989.8	890.0	819.9	771.0	764.6
52.5°	7015.6	2850.4	947.3	811.4	885.7	987.7	945.2	845.4	749.8	707.3	698.8
55°	7262.0	2975.7	819.9	662.7	771.0	938.8	909.1	754.0	662.7	637.2	630.8
57.5°	7516.9	3001.2	645.7	524.6	671.2	868.7	830.5	694.6	605.3	575.6	569.2
60°	6873.3	2472.4	484.3	433.3	592.6	802.9	768.9	658.4	554.4	518.3	511.9
62.5°	4515.7	1336.0	384.4	367.5	499.1	679.7	700.9	594.7	494.9	456.7	454.5
65°	2081.5	620.2	295.2	291.0	390.8	541.6	603.2	520.4	418.4	384.4	384.4
67.5°	567.1	308.0	231.5	214.5	265.5	363.2	439.7	388.7	297.4	257.0	254.9
70°	282.5	248.5	208.2	184.8	191.2	225.1	259.1	216.6	150.8	123.2	121.1
72.5°	231.5	203.9	176.3	157.2	144.4	138.1	133.8	108.3	70.1	53.1	51.0
75°	172.0	146.6	125.3	102.0	87.1	80.7	72.2	53.1	29.7	17.0	14.9
77.5°	38.2	36.1	34.0	25.5	23.4	19.1	14.9	10.6	4.2	0.0	0.0
80°	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)