

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: P640700

Luminaire Tested: GWS-SA5E-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640700  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-735-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

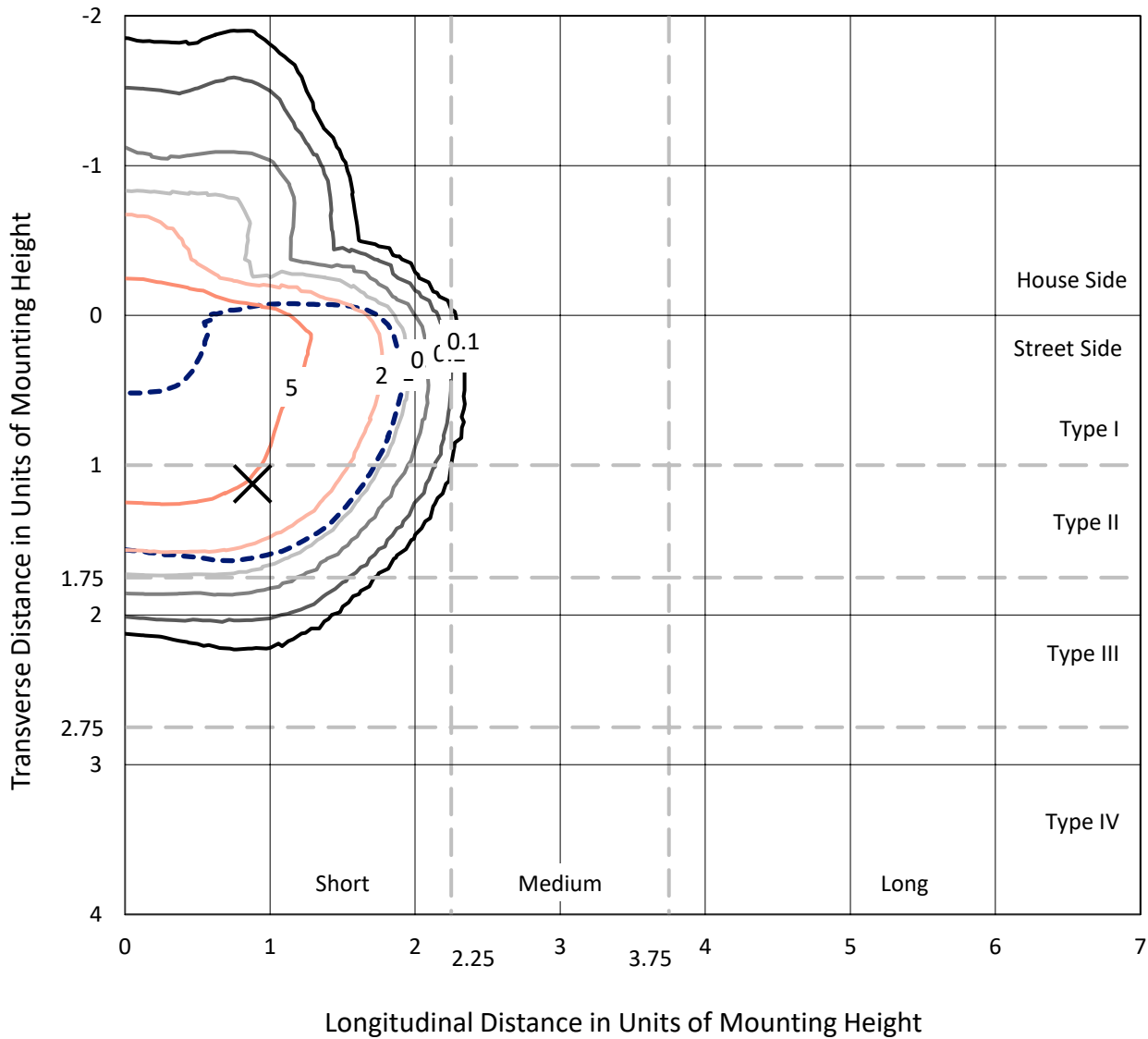
Lumens per Lamp: N/A  
Luminaire Lumens: 23222.4 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

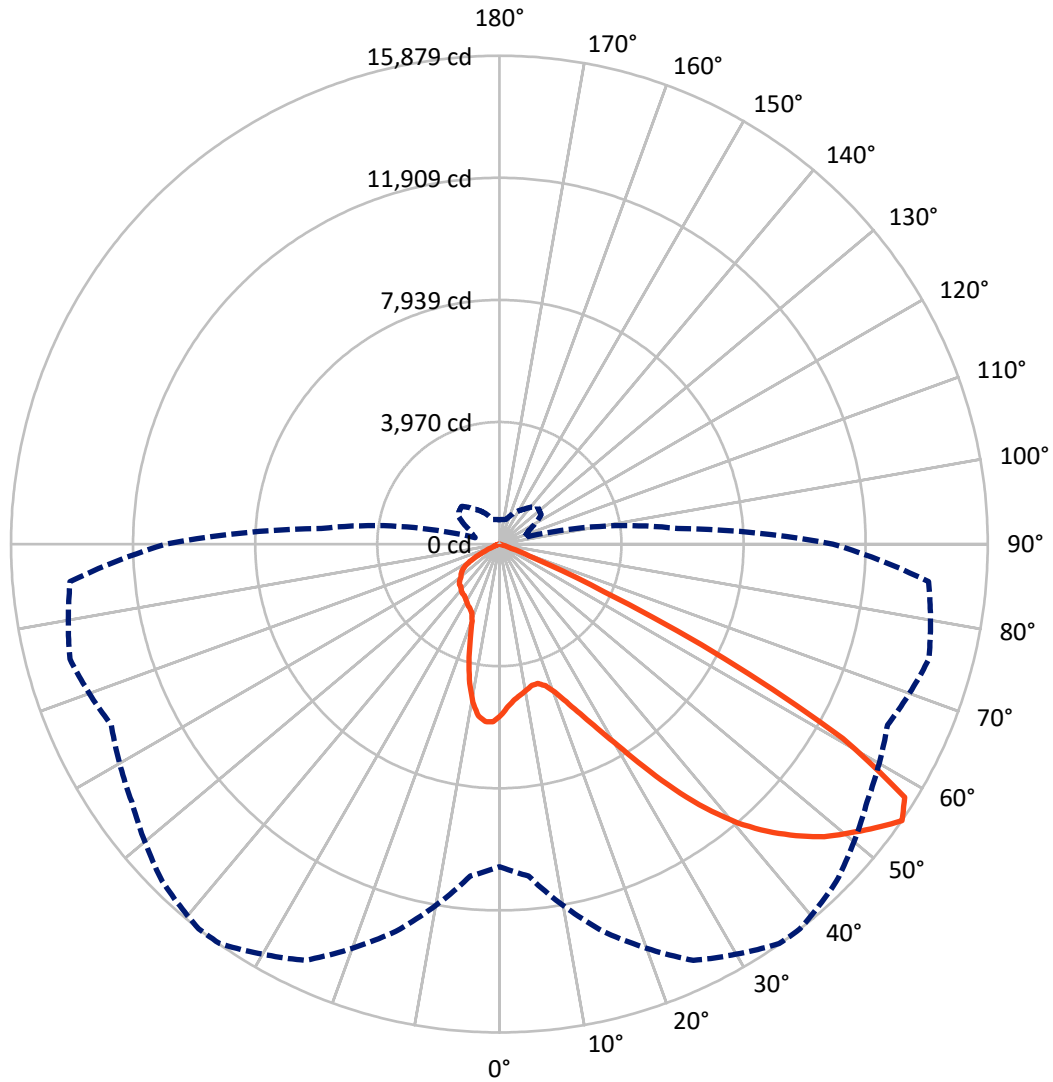
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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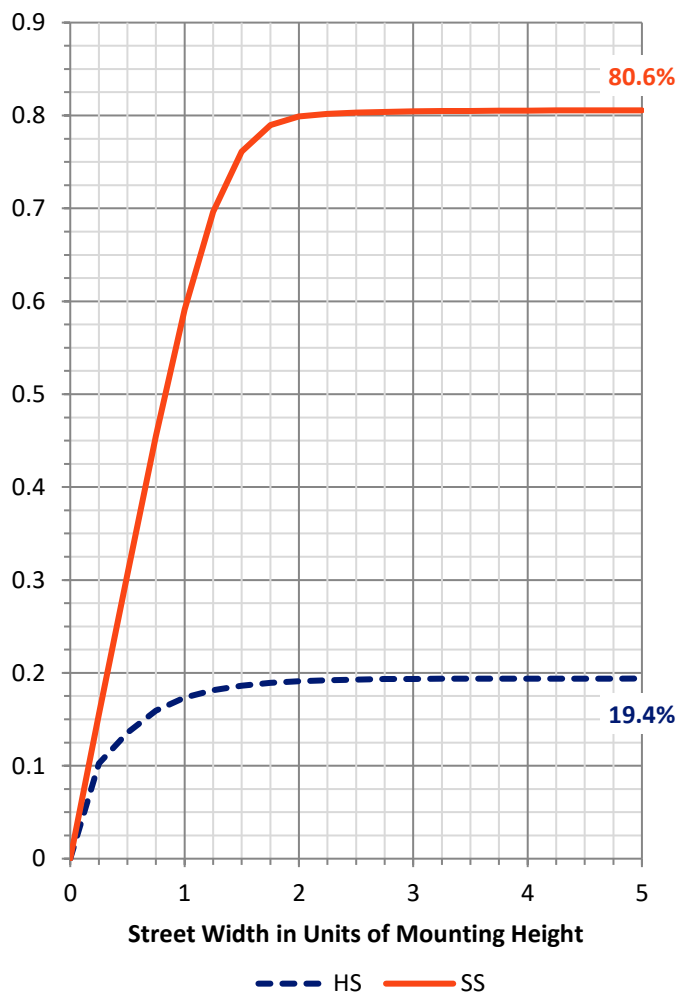
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4524.5	0.0	4524.5
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	18698.0	0.0	18698.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	23222.4	0.0	23222.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	514.9	2.2
10°-20°	1386.2	6.0
20°-30°	2378.8	10.2
30°-40°	3945.5	17.0
40°-50°	5800.0	25.0
50°-60°	6777.5	29.2
60°-70°	2297.4	9.9
70°-80°	117.5	0.5
80°-90°	4.6	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°	23222.4	100.0
0°-180°	23222.4	100.0

**Coefficient of Utilization**



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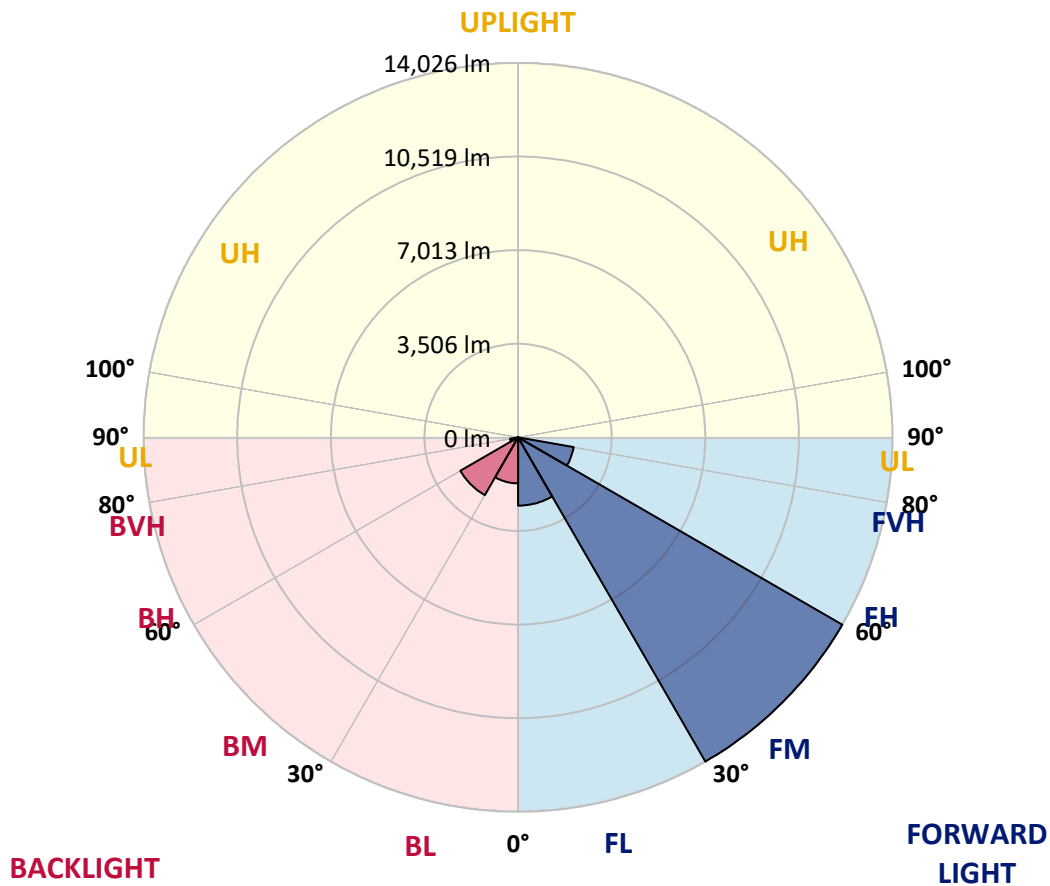
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2556.2	11.0			
FM (30°-60°)	14025.7	60.4			
FH (60°-80°)	2113.6	9.1			G2/5000
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1723.8	7.4	B3/2500		
BM (30°-60°)	2497.3	10.8	B2/2500		
BH (60°-80°)	301.2	1.3	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
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°	38°	45°	55°	65°	75°	85°
0°	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9
2.5°	5186.7	5176.1	5197.3	5239.8	5279.6	5292.9	5332.7	5388.4	5422.9	5505.2	5571.6
5°	4953.1	4947.8	4969.0	5006.2	5059.3	5077.8	5138.9	5231.8	5324.7	5468.0	5608.7
7.5°	4740.7	4738.1	4769.9	4852.2	4929.2	4953.1	5027.4	5141.6	5266.3	5486.6	5693.7
10°	4462.0	4464.7	4525.7	4642.5	4783.2	4831.0	4950.4	5115.0	5276.9	5560.9	5847.6
12.5°	4371.8	4377.1	4408.9	4499.2	4653.1	4714.2	4881.4	5130.9	5338.0	5667.1	6046.7
15°	4592.1	4592.1	4565.6	4576.2	4645.2	4700.9	4876.1	5184.0	5441.5	5794.5	6243.1
17.5°	5019.5	5003.5	4937.2	4846.9	4823.0	4841.6	4982.3	5298.2	5587.5	5943.2	6466.1
20°	5598.1	5603.4	5473.4	5284.9	5133.6	5130.9	5215.9	5499.9	5797.2	6121.0	6707.6
22.5°	6298.9	6277.6	6105.1	5847.6	5584.8	5563.6	5598.1	5807.8	6099.8	6402.4	7004.9
25°	7111.1	7100.5	6856.3	6511.2	6163.5	6113.1	6113.1	6320.1	6532.5	6803.2	7360.6
27.5°	7960.5	7960.5	7724.3	7326.1	6864.3	6774.0	6760.7	7004.9	7145.6	7198.7	7660.6
30°	8833.8	8823.2	8589.6	8180.8	7687.1	7594.2	7557.0	7737.5	7838.4	7679.1	8034.8
32.5°	9720.4	9739.0	9502.7	9123.1	8682.5	8621.5	8507.3	8507.3	8589.6	8366.6	8624.1
35°	10673.3	10668.0	10482.2	10224.7	9847.8	9778.8	9590.3	9295.7	9420.4	9322.2	9439.0
37.5°	11514.7	11554.6	11464.3	11273.2	10967.9	10898.9	10588.4	10054.8	10150.4	10304.3	10407.9
40°	12369.5	12401.3	12491.6	12430.5	12045.6	11918.2	11366.1	10490.1	10596.3	11124.5	11421.8
42.5°	13208.2	13224.2	13407.3	13508.2	12993.2	12770.3	11955.4	10755.6	10867.1	11766.9	12287.2
45°	13741.8	13776.3	14078.9	14386.8	13829.4	13524.1	12467.7	11095.3	11143.1	12212.8	12926.9
47.5°	13720.5	13800.2	14368.2	14928.3	14548.7	14219.6	13083.5	11639.5	11559.9	12632.2	13348.9
50°	13293.2	13388.7	14203.6	15092.9	15066.3	14761.1	13768.3	12427.9	12178.3	13003.9	13402.0
52.5°	12406.6	12682.7	13914.3	15114.1	15483.1	15329.1	14615.1	13489.6	13014.5	13537.4	13487.0
55°	10490.1	10829.9	13035.7	14933.6	15860.0	15878.6	15504.3	14596.5	13922.3	14455.8	14009.9
57.5°	7963.2	8233.9	10033.6	13293.2	15236.2	15541.5	15849.4	15180.5	14482.3	15082.2	14132.0
60°	4799.1	5112.4	6282.9	9754.9	12305.8	12826.0	14033.8	13903.7	13062.3	13319.7	11589.1
62.5°	1945.7	2110.2	2901.2	5375.1	7745.5	8231.3	9388.6	9585.0	9378.0	9115.2	7028.8
65°	711.4	777.7	1162.6	2221.7	3562.2	3740.0	4350.5	4698.3	4984.9	4244.4	2614.6
67.5°	440.6	483.1	756.5	1141.4	1295.3	1205.1	1226.3	1462.6	1396.2	862.7	467.2
70°	326.5	361.0	591.9	791.0	522.9	403.5	273.4	292.0	262.8	230.9	228.3
72.5°	225.6	257.5	443.3	467.2	201.7	143.3	100.9	140.7	159.3	156.6	161.9
75°	148.6	172.5	278.7	183.2	50.4	39.8	34.5	74.3	95.6	95.6	98.2
77.5°	87.6	100.9	98.2	37.2	10.6	10.6	8.0	13.3	21.2	23.9	29.2
80°	10.6	8.0	5.3	5.3	5.3	5.3	5.3	5.3	8.0	8.0	8.0
82.5°	2.7	2.7	2.7	5.3	5.3	5.3	5.3	5.3	5.3	8.0	8.0
85°	0.0	0.0	2.7	2.7	5.3	5.3	5.3	5.3	5.3	8.0	8.0
87.5°	0.0	0.0	2.7	2.7	5.3	5.3	5.3	5.3	5.3	8.0	8.0
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°	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9	5568.9
2.5°	5622.0	5603.4	5680.4	5736.1	5781.3	5802.5	5773.3	5770.6	5770.6	5712.2	5696.3
5°	5688.4	5696.3	5805.2	5852.9	5860.9	5834.3	5768.0	5722.9	5696.3	5635.3	5600.8
7.5°	5815.8	5842.3	5945.8	5937.9	5866.2	5744.1	5568.9	5433.5	5345.9	5250.4	5192.0
10°	5998.9	6049.4	6113.1	6001.6	5773.3	5462.7	5101.7	4844.3	4690.3	4581.5	4515.1
12.5°	6221.9	6272.3	6251.1	5988.3	5513.2	4958.4	4493.9	4122.3	3944.4	3846.2	3777.2
15°	6447.5	6479.4	6341.3	5829.0	5054.0	4308.1	3790.5	3421.5	3203.8	3124.2	3065.8
17.5°	6678.4	6670.5	6357.3	5515.8	4440.8	3575.5	3065.8	2813.7	2752.6	2739.3	2734.0
20°	6920.0	6848.3	6293.6	5067.2	3702.9	2850.8	2561.5	2577.4	2688.9	2742.0	2752.6
22.5°	7196.1	7015.6	6134.3	4459.4	2949.0	2375.7	2404.9	2561.5	2712.8	2784.5	2795.1
25°	7490.7	7169.5	5868.9	3679.0	2325.2	2184.6	2357.1	2537.6	2699.5	2787.1	2797.7
27.5°	7684.5	7206.7	5433.5	2893.3	1996.1	2110.2	2293.4	2465.9	2633.2	2728.7	2742.0
30°	7894.2	7190.7	4841.6	2229.7	1884.6	2046.5	2205.8	2362.4	2516.4	2622.5	2633.2
32.5°	8202.1	7180.1	4119.6	1810.3	1839.5	1996.1	2112.9	2243.0	2349.1	2410.2	2402.2
35°	8605.5	7166.9	3278.2	1632.4	1812.9	1956.3	2049.2	2110.2	1993.4	1956.3	1964.2
37.5°	9123.1	7198.7	2569.4	1558.1	1805.0	1945.7	2025.3	1850.1	1669.6	1600.6	1590.0
40°	9696.5	7281.0	1958.9	1528.9	1831.5	1972.2	1935.1	1645.7	1422.8	1287.4	1258.2
42.5°	10272.5	7371.2	1550.2	1518.3	1876.7	2046.5	1786.4	1497.1	1162.6	1085.6	1075.0
45°	10699.8	7355.3	1340.5	1499.7	1916.5	2089.0	1746.6	1284.7	1037.9	1003.4	1006.0
47.5°	10914.8	7180.1	1226.3	1457.3	1932.4	2046.5	1648.4	1197.1	952.9	990.1	1021.9
50°	10800.7	6726.2	1120.2	1375.0	1897.9	1990.8	1491.8	1130.8	910.5	1064.4	1136.1
52.5°	10662.7	6168.8	1003.4	1247.6	1815.6	1913.8	1430.7	1112.2	883.9	1027.2	1080.3
55°	10845.8	5815.8	812.2	1051.1	1653.7	1733.3	1382.9	1109.5	822.9	799.0	791.0
57.5°	10588.4	5112.4	581.3	756.5	1268.8	1372.3	1348.4	1091.0	730.0	727.3	737.9
60°	8183.5	3118.9	398.2	480.4	777.7	875.9	1223.7	1043.2	629.1	578.7	581.3
62.5°	4650.5	1327.2	273.4	297.3	398.2	472.5	934.3	947.6	581.3	552.1	581.3
65°	1619.2	475.1	212.4	199.1	220.3	252.2	536.2	732.6	528.2	477.8	483.1
67.5°	334.5	236.2	188.5	164.6	164.6	164.6	273.4	456.6	435.3	379.6	384.9
70°	212.4	201.7	164.6	140.7	135.4	124.8	156.6	252.2	299.9	276.1	278.7
72.5°	156.6	154.0	130.1	114.1	100.9	90.2	98.2	124.8	154.0	159.3	161.9
75°	95.6	98.2	84.9	71.7	63.7	55.7	58.4	58.4	58.4	53.1	58.4
77.5°	29.2	31.9	26.5	21.2	18.6	18.6	18.6	15.9	13.3	8.0	8.0
80°	8.0	8.0	8.0	8.0	8.0	5.3	5.3	2.7	2.7	0.0	0.0
82.5°	8.0	8.0	8.0	8.0	5.3	5.3	2.7	2.7	0.0	0.0	0.0
85°	8.0	8.0	8.0	8.0	5.3	5.3	2.7	2.7	0.0	0.0	0.0
87.5°	8.0	8.0	8.0	8.0	5.3	5.3	2.7	2.7	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)