

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: P639863

Luminaire Tested: GWS-SA5C-760-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639863
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-SA5C-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14270.4 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

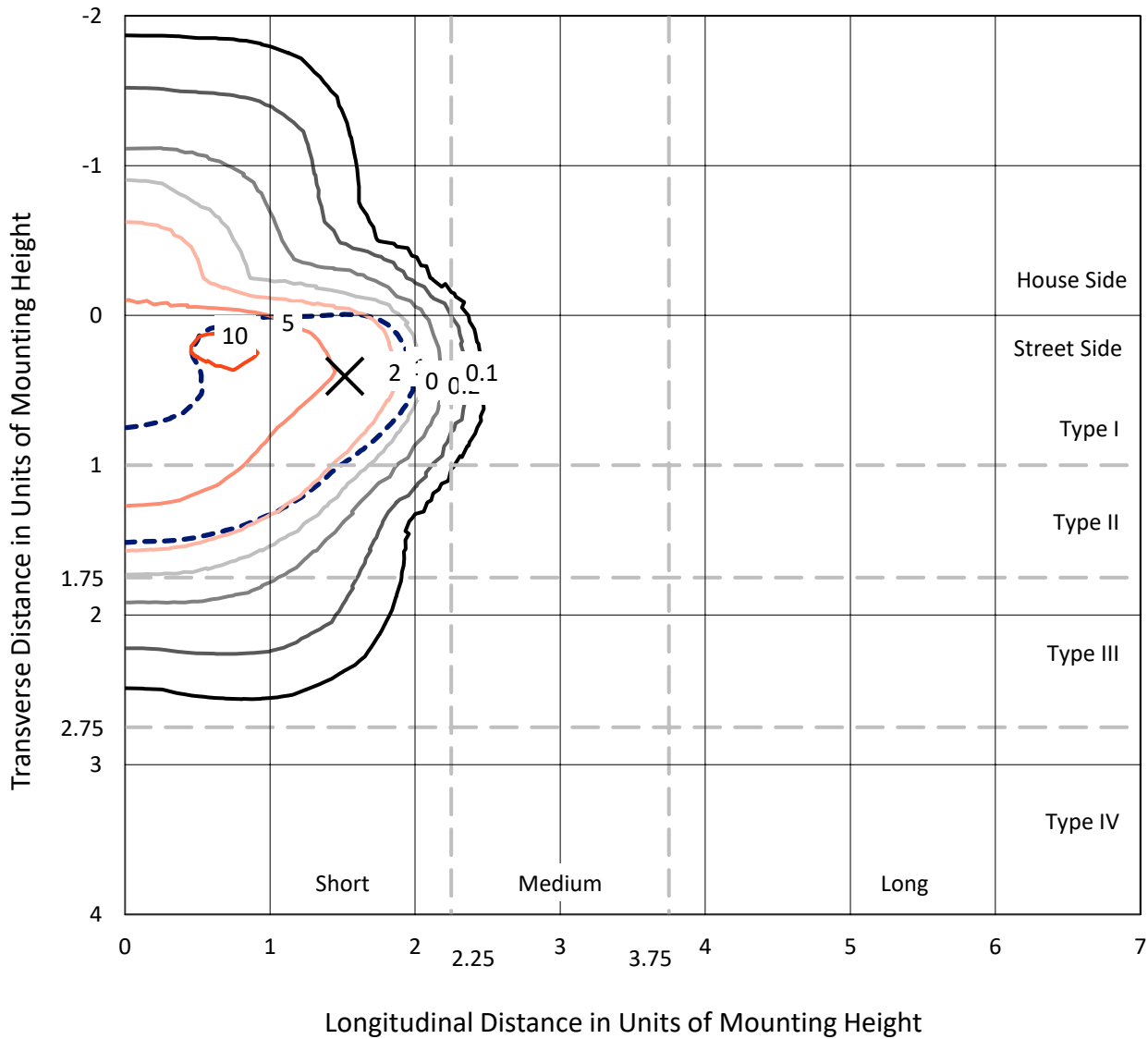
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

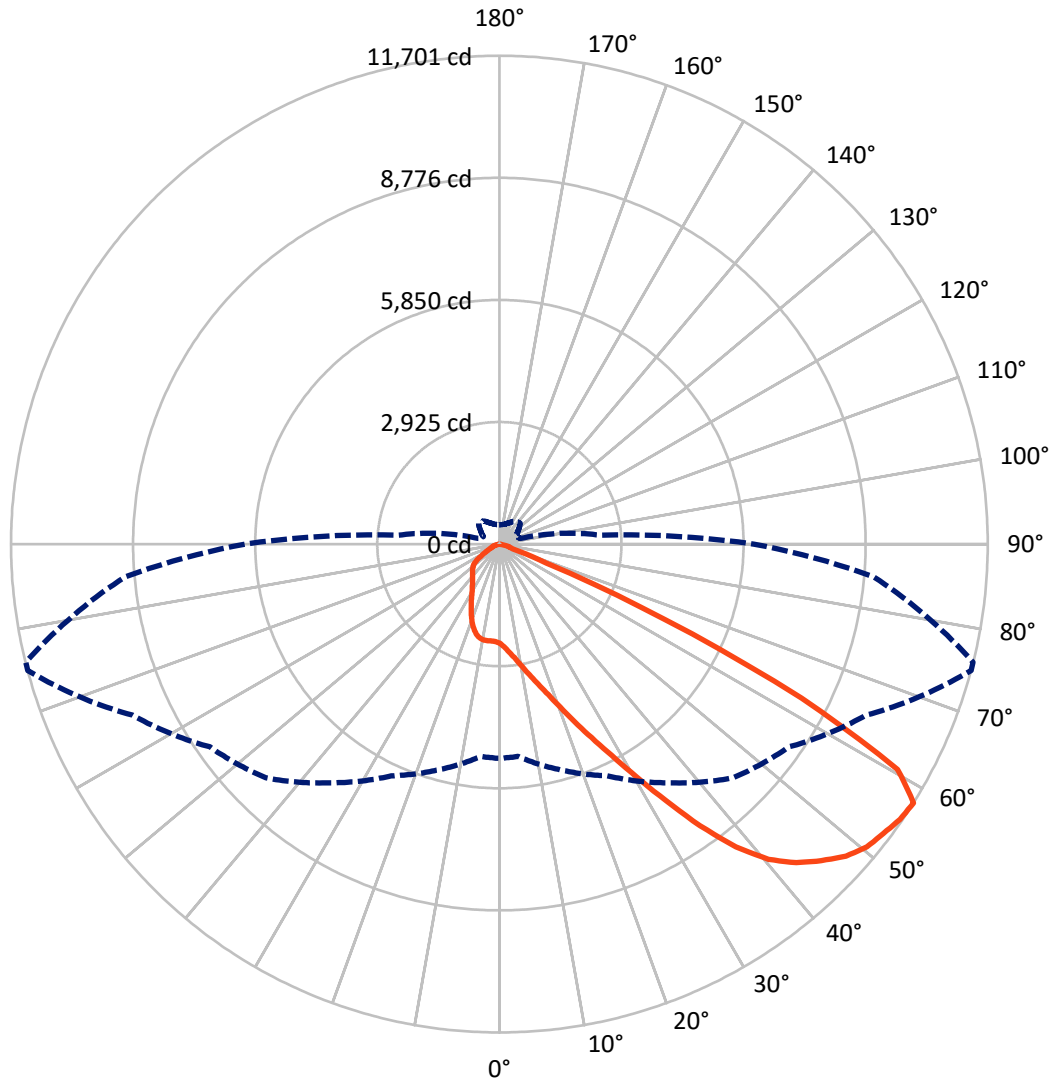
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.1 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
House Side	Lumens	2331.0	0.0	2331.0
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	11939.4	0.0	11939.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	14270.4	0.0	14270.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	1.7
10°-20°	786.8	5.5
20°-30°	1440.7	10.1
30°-40°	2390.3	16.8
40°-50°	3650.6	25.6
50°-60°	4102.1	28.7
60°-70°	1513.0	10.6
70°-80°	144.6	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°	14270.4	100.0
0°-180°	14270.4	100.0

Coefficient of Utilization



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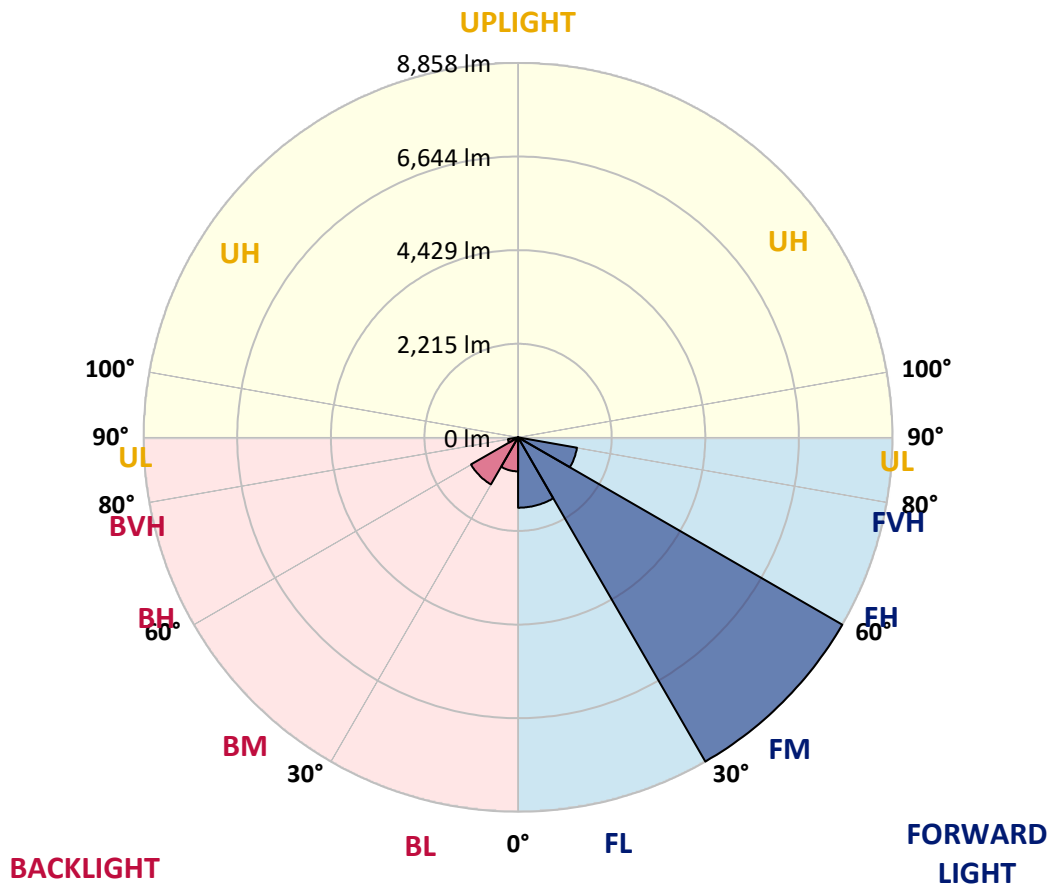
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1665.3	11.7			
FM (30°-60°)	8858.4	62.1			
FH (60°-80°)	1415.6	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	804.4	5.6	B2/1000		
BM (30°-60°)	1284.6	9.0	B2/2500		
BH (60°-80°)	242.1	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°	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1
2.5°	2659.1	2686.7	2678.0	2660.8	2650.5	2614.3	2591.9	2526.5	2480.0	2474.8	2431.8
5°	2994.9	2989.8	2982.9	2962.2	2945.0	2888.2	2821.0	2710.8	2612.6	2600.5	2509.3
7.5°	3179.2	3182.7	3186.1	3182.7	3170.6	3127.5	3053.5	2924.3	2774.5	2764.2	2619.5
10°	3255.0	3261.9	3279.1	3311.8	3341.1	3337.7	3294.6	3162.0	2977.7	2960.5	2765.9
12.5°	3291.2	3299.8	3327.3	3389.3	3468.5	3530.5	3537.4	3418.6	3215.4	3187.8	2939.8
15°	3341.1	3349.7	3384.2	3465.1	3580.5	3702.8	3782.0	3706.2	3478.9	3449.6	3131.0
17.5°	3363.5	3375.5	3425.5	3532.3	3682.1	3869.8	4048.9	4042.0	3790.6	3768.2	3353.2
20°	3406.5	3415.2	3459.9	3575.3	3756.2	4026.5	4327.9	4436.4	4171.2	4138.5	3621.8
22.5°	3542.6	3546.0	3566.7	3639.0	3807.8	4140.2	4612.1	4896.3	4620.7	4577.7	3923.2
25°	3764.8	3763.0	3771.7	3783.7	3907.7	4255.6	4885.9	5414.7	5135.7	5089.2	4264.2
27.5°	4047.2	4047.2	4067.9	4033.4	4083.4	4398.5	5156.3	6010.5	5735.0	5669.5	4637.9
30°	4379.6	4377.9	4426.1	4371.0	4386.5	4624.2	5447.4	6659.8	6458.3	6377.4	5068.5
32.5°	4830.8	4820.5	4875.6	4799.8	4748.2	4965.2	5802.1	7338.4	7324.6	7200.6	5609.3
35°	5400.9	5383.7	5400.9	5326.8	5233.8	5442.2	6267.1	8015.2	8285.6	8154.7	6253.4
37.5°	5967.5	6022.6	6041.5	5914.1	5838.3	6046.7	6826.9	8621.4	9203.5	9067.5	6923.3
40°	6635.7	6618.5	6683.9	6541.0	6492.8	6723.5	7374.5	9072.6	9930.3	9801.1	7519.2
42.5°	7128.3	7159.3	7240.2	7161.0	7123.1	7340.1	7834.4	9336.1	10434.9	10307.5	7944.6
45°	7719.0	7741.4	7772.4	7706.9	7667.3	7880.9	8166.8	9451.5	10819.0	10681.2	8230.5
47.5°	8357.9	8375.1	8375.1	8240.8	8113.4	8201.2	8388.9	9517.0	11172.0	11039.4	8442.3
50°	8816.0	8824.6	8900.4	8805.7	8528.4	8392.4	8490.5	9580.7	11406.2	11282.2	8511.2
52.5°	8409.6	8399.3	8649.0	8845.3	8919.4	8649.0	8666.2	9673.7	11519.9	11413.1	8566.3
55°	7081.8	7064.5	7415.9	7892.9	8545.6	8891.8	8878.0	9728.8	11645.6	11580.2	8766.1
57.5°	5133.9	5104.7	5593.8	6124.2	6980.1	7918.8	8469.9	9697.8	11700.7	11695.6	8998.6
60°	3086.2	3062.1	3523.7	4081.7	4743.0	5686.8	6601.3	8686.9	10963.6	10974.0	8394.1
62.5°	1899.6	1922.0	2338.8	2622.9	2869.2	3153.4	3682.1	5843.5	8122.0	8189.1	5898.6
65°	1277.9	1295.1	1680.9	2039.1	2039.1	1667.1	1431.2	2793.4	4333.1	4219.4	2790.0
67.5°	857.7	876.6	1181.4	1599.9	1660.2	1162.5	580.4	833.6	1207.3	1171.1	690.6
70°	504.6	525.3	787.1	1097.1	1209.0	809.4	387.5	353.1	342.7	332.4	268.7
72.5°	225.6	234.2	401.3	558.0	509.8	341.0	273.8	282.4	266.9	261.8	218.7
75°	68.9	72.3	103.3	120.6	122.3	122.3	165.3	222.2	210.1	211.8	168.8
77.5°	17.2	17.2	27.6	25.8	13.8	12.1	31.0	49.9	51.7	46.5	34.4
80°	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7
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°	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1	2380.1
2.5°	2412.8	2368.0	2338.8	2297.4	2268.2	2237.2	2209.6	2187.2	2175.2	2171.7	2173.4
5°	2467.9	2397.3	2328.4	2249.2	2194.1	2142.4	2101.1	2068.4	2052.9	2047.7	2047.7
7.5°	2552.3	2454.2	2331.9	2207.9	2114.9	2033.9	1985.7	1949.5	1935.8	1932.3	1922.0
10°	2662.5	2528.2	2326.7	2133.8	2002.9	1918.5	1884.1	1873.8	1878.9	1880.7	1878.9
12.5°	2795.2	2605.7	2294.0	2025.3	1884.1	1832.4	1835.9	1863.4	1894.4	1909.9	1913.4
15°	2936.4	2676.3	2219.9	1896.2	1782.5	1780.8	1830.7	1894.4	1954.7	1980.5	1987.4
17.5°	3094.8	2733.2	2106.3	1758.4	1694.7	1744.6	1834.2	1932.3	2013.3	2056.3	2064.9
20°	3268.8	2779.7	1961.6	1629.2	1617.2	1706.7	1830.7	1951.3	2051.2	2099.4	2108.0
22.5°	3449.6	2812.4	1794.6	1510.4	1546.6	1663.7	1798.0	1915.1	2009.8	2064.9	2071.8
25°	3656.3	2815.8	1624.1	1410.5	1481.1	1605.1	1718.8	1815.2	1894.4	1942.7	1947.8
27.5°	3837.1	2774.5	1472.5	1329.6	1420.8	1532.8	1608.6	1661.9	1717.1	1744.6	1746.3
30°	4045.5	2702.2	1329.6	1264.1	1358.8	1443.2	1481.1	1493.2	1498.3	1503.5	1496.6
32.5°	4293.5	2614.3	1222.8	1200.4	1288.2	1345.1	1355.4	1331.3	1302.0	1260.7	1250.3
35°	4598.3	2535.1	1134.9	1138.4	1210.7	1245.2	1236.6	1184.9	1128.1	1078.1	1069.5
37.5°	4929.0	2467.9	1067.8	1078.1	1126.3	1150.4	1124.6	1067.8	1041.9	998.9	1000.6
40°	5221.8	2412.8	1007.5	1017.8	1040.2	1062.6	1021.3	983.4	1031.6	1028.2	1031.6
42.5°	5430.2	2366.3	955.8	950.7	966.2	981.7	950.7	931.7	1012.7	990.3	1002.3
45°	5552.4	2323.3	912.8	881.8	905.9	933.4	912.8	888.7	916.2	812.9	804.3
47.5°	5635.1	2299.2	874.9	814.6	857.7	905.9	862.8	804.3	764.7	675.1	668.2
50°	5643.7	2287.1	830.1	745.7	800.8	852.5	802.6	721.6	664.8	625.2	620.0
52.5°	5688.5	2311.2	768.1	657.9	718.2	800.8	766.4	685.4	607.9	573.5	566.6
55°	5888.3	2412.8	664.8	537.3	625.2	761.2	737.1	611.4	537.3	516.7	511.5
57.5°	6094.9	2433.5	523.6	425.4	544.2	704.4	673.4	563.2	490.8	466.7	461.6
60°	5573.1	2004.7	392.7	351.3	480.5	651.0	623.4	533.9	449.5	420.2	415.1
62.5°	3661.4	1083.3	311.7	297.9	404.7	551.1	568.3	482.2	401.3	370.3	368.6
65°	1687.8	502.9	239.4	235.9	316.9	439.2	489.1	421.9	339.3	311.7	311.7
67.5°	459.8	249.7	187.7	173.9	215.3	294.5	356.5	315.2	241.1	208.4	206.7
70°	229.1	201.5	168.8	149.8	155.0	182.6	210.1	175.7	122.3	99.9	98.2
72.5°	187.7	165.3	142.9	127.4	117.1	111.9	108.5	87.8	56.8	43.1	41.3
75°	139.5	118.8	101.6	82.7	70.6	65.4	58.6	43.1	24.1	13.8	12.1
77.5°	31.0	29.3	27.6	20.7	18.9	15.5	12.1	8.6	3.4	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	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)