

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: P642423

Luminaire Tested: GWS-SA6C-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-830-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20463.2 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

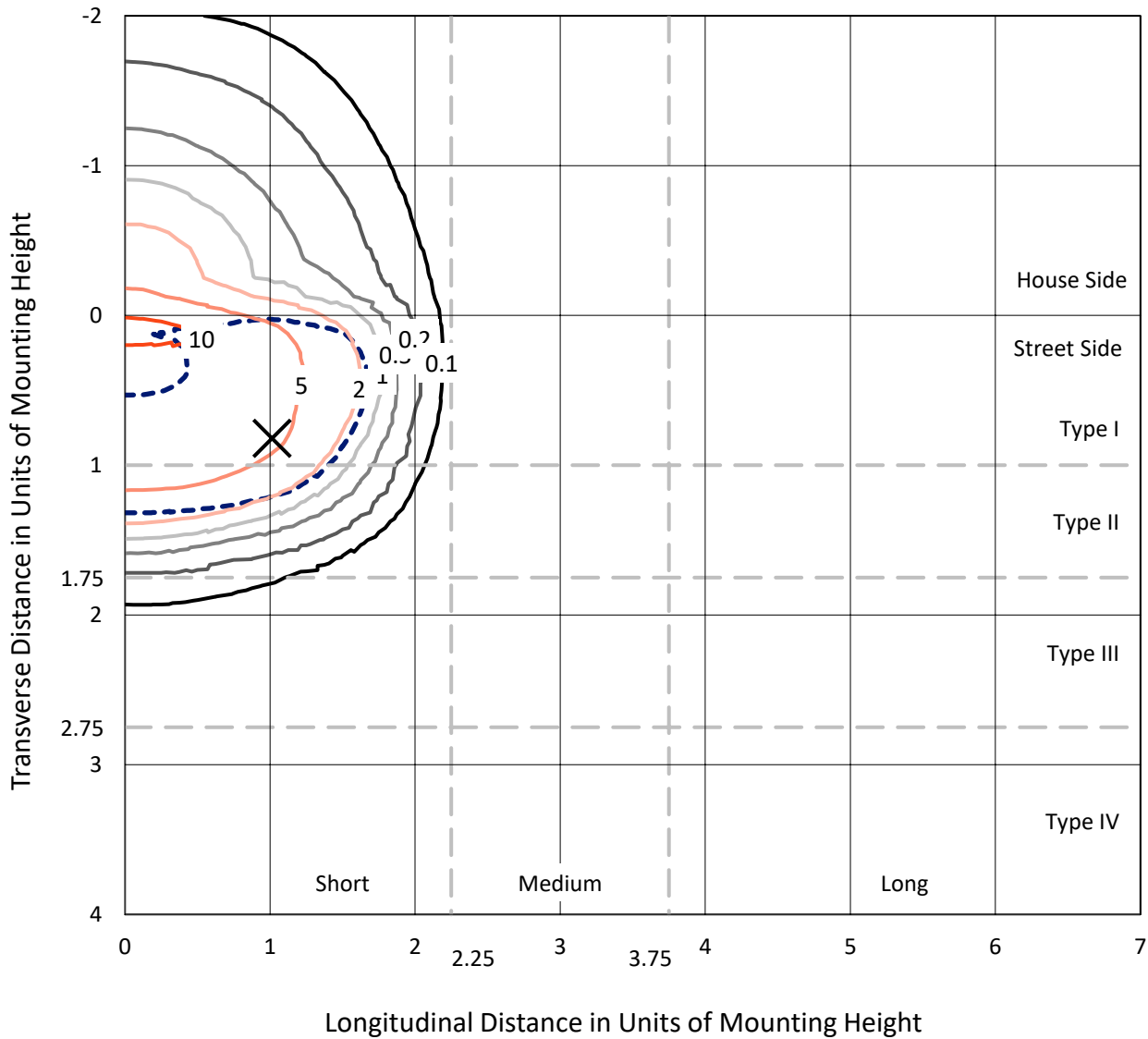
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

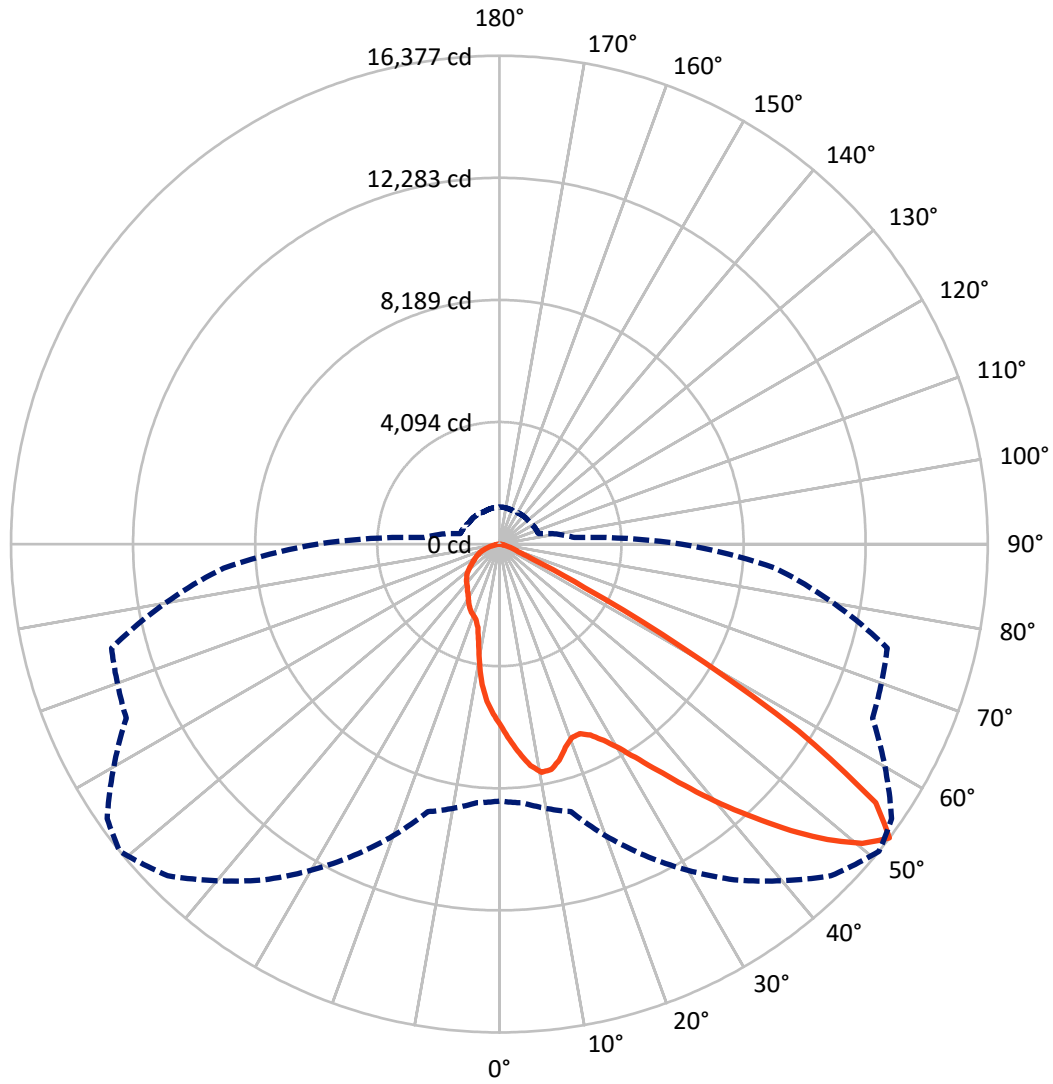
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3987.1	0.0	3987.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	16476.1	0.0	16476.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	20463.2	0.0	20463.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.6	2.8
10°-20°	1477.3	7.2
20°-30°	2402.0	11.7
30°-40°	3806.7	18.6
40°-50°	5741.3	28.1
50°-60°	4966.6	24.3
60°-70°	1126.0	5.5
70°-80°	332.0	1.6
80°-90°	42.8	0.2
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°	20463.2	100.0
0°-180°	20463.2	100.0

Coefficient of Utilization



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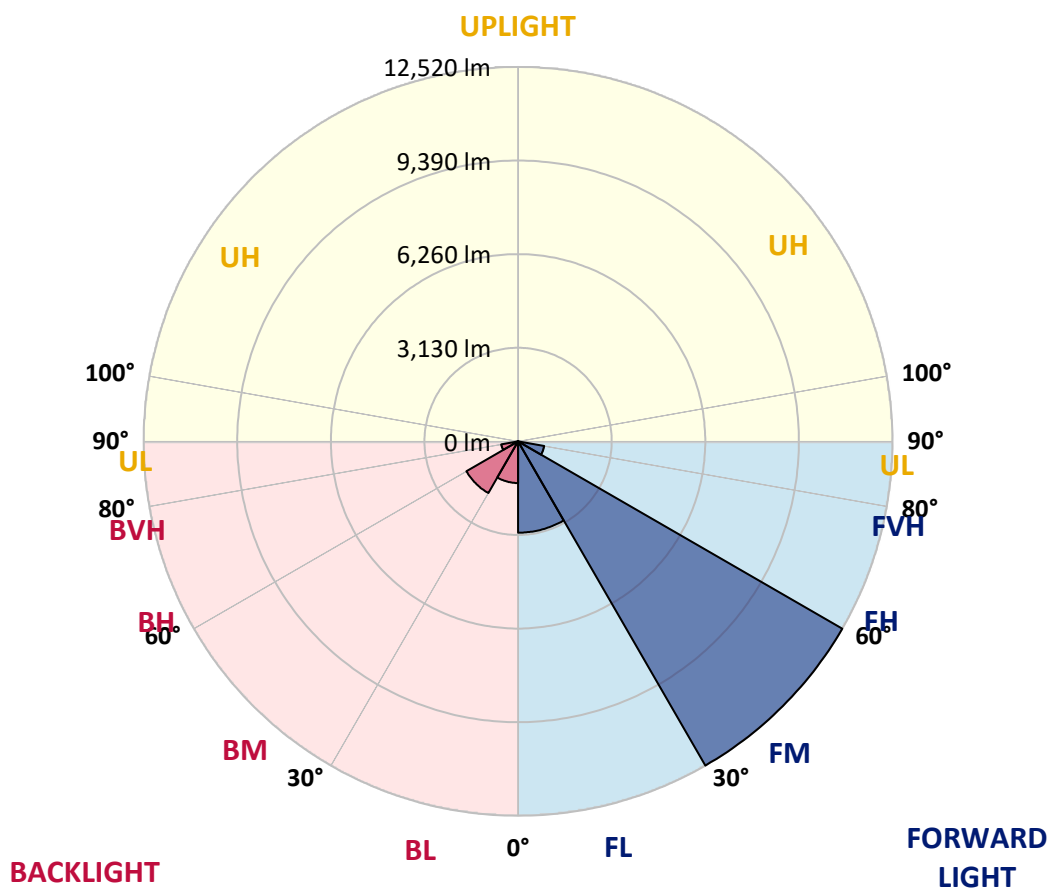
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3054.2	14.9			
FM (30°-60°)	12519.7	61.2			
FH (60°-80°)	886.1	4.3			G1/1800
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	1393.7	6.8	B3/2500		
BM (30°-60°)	1994.9	9.7	B2/2500		
BH (60°-80°)	571.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	26.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9
2.5°	6789.8	6828.7	6768.8	6746.2	6709.0	6644.3	6569.9	6548.9	6388.8	6283.7	6165.7
5°	7472.2	7493.3	7444.7	7396.2	7304.1	7189.3	7045.3	7014.6	6723.6	6482.6	6232.0
7.5°	7624.2	7616.1	7658.2	7685.7	7674.4	7629.1	7501.3	7441.5	7093.8	6712.2	6341.9
10°	7022.7	6977.4	7132.7	7317.0	7538.5	7794.0	7779.5	7774.6	7472.2	7021.1	6482.6
12.5°	6225.5	6202.9	6329.0	6560.2	6979.0	7545.0	7756.8	7921.8	7813.4	7315.4	6639.5
15°	5769.5	5761.4	5847.1	6013.7	6346.8	7061.5	7514.3	7840.9	8106.1	7630.7	6806.0
17.5°	5687.0	5691.9	5721.0	5816.4	6055.7	6644.3	7168.2	7624.2	8334.1	7976.7	7014.6
20°	5928.0	5960.3	5910.2	5924.7	6054.1	6493.9	6932.1	7405.9	8479.6	8324.4	7239.4
22.5°	6463.2	6451.9	6341.9	6277.3	6278.9	6586.1	6906.3	7304.1	8575.0	8662.4	7443.1
25°	7069.6	7056.7	6925.7	6781.8	6691.2	6836.7	7092.2	7412.4	8660.7	8971.2	7606.4
27.5°	7785.9	7745.5	7600.0	7415.6	7215.1	7278.2	7451.2	7705.1	8793.3	9275.2	7714.8
30°	8479.6	8526.5	8317.9	8099.6	7887.8	7849.0	7949.2	8178.9	9063.4	9630.9	7844.1
32.5°	9399.7	9383.5	9152.3	8867.7	8565.3	8536.2	8615.5	8825.7	9548.5	10122.5	8041.4
35°	10513.8	10517.1	10188.8	9804.0	9373.8	9296.2	9428.8	9632.6	10271.3	10788.7	8353.5
37.5°	11671.6	11666.8	11380.6	10944.0	10357.0	10247.0	10399.0	10551.0	11175.2	11695.9	8838.6
40°	12483.4	12515.7	12381.5	12151.9	11595.6	11327.2	11461.4	11566.5	12158.3	12763.1	9477.3
42.5°	12944.2	12992.7	13021.8	13159.3	12866.6	12580.4	12531.9	12586.9	13036.4	13754.3	10077.2
45°	13042.8	13107.5	13319.4	13828.7	13941.9	13861.1	13702.6	13570.0	13691.3	14457.7	10470.2
47.5°	12607.9	12721.1	13173.8	14064.8	14726.2	14980.0	14803.8	14601.7	14069.7	14638.8	10429.8
50°	10884.1	11016.7	12037.1	13582.9	14837.7	15762.7	15778.8	15479.7	14024.4	14116.5	9922.0
52.5°	8617.1	8707.6	9291.4	11514.8	13743.0	15730.3	16377.1	16057.0	13806.1	13463.3	9286.5
55°	5150.2	5295.7	5840.7	7596.7	10706.3	13941.9	15319.6	15474.8	13699.4	12915.1	8853.2
57.5°	1738.3	1809.4	2330.1	3355.3	6309.6	10208.2	11836.6	12467.2	12436.5	12077.5	8007.5
60°	827.9	844.1	949.2	1272.6	2525.8	5334.5	7006.5	7734.2	8397.2	8463.5	4982.0
62.5°	630.6	640.3	693.7	763.2	1015.5	2247.7	3211.4	3767.6	4024.8	3453.9	1814.3
65°	527.1	535.2	575.7	619.3	690.5	973.4	1232.2	1421.4	1280.7	997.7	865.1
67.5°	439.8	446.3	477.0	523.9	572.4	651.7	684.0	703.4	737.4	827.9	795.6
70°	344.4	350.9	383.2	423.7	470.6	490.0	520.7	540.1	608.0	724.4	721.2
72.5°	265.2	273.3	291.1	316.9	355.7	375.1	409.1	431.7	470.6	564.3	603.1
75°	194.0	198.9	215.1	223.1	228.0	223.1	257.1	283.0	334.7	370.3	380.0
77.5°	79.2	88.9	85.7	85.7	101.9	122.9	140.7	156.9	192.4	213.4	215.1
80°	32.3	35.6	42.0	46.9	56.6	72.8	84.1	90.6	106.7	119.7	129.4
82.5°	19.4	21.0	24.3	25.9	32.3	42.0	48.5	53.4	66.3	79.2	84.1
85°	9.7	9.7	11.3	12.9	16.2	19.4	22.6	25.9	34.0	42.0	46.9
87.5°	1.6	1.6	1.6	3.2	4.9	6.5	8.1	9.7	11.3	12.9	16.2
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°	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9	6092.9
2.5°	6096.1	6008.8	5907.0	5826.1	5732.3	5662.8	5564.2	5502.7	5444.5	5396.0	5360.4
5°	6102.6	5955.5	5743.6	5556.1	5362.0	5177.7	4988.5	4834.9	4697.4	4582.6	4572.9
7.5°	6139.8	5928.0	5596.5	5268.2	4889.9	4524.4	4159.0	3861.4	3635.1	3517.0	3492.8
10°	6202.9	5924.7	5446.1	4922.2	4277.0	3688.4	3255.1	3028.7	2897.7	2850.8	2834.6
12.5°	6269.2	5916.7	5253.7	4433.9	3538.0	3022.2	2784.5	2757.0	2781.3	2784.5	2782.9
15°	6350.0	5911.8	5011.1	3861.4	2997.9	2713.4	2729.5	2787.7	2844.3	2857.3	2857.3
17.5°	6448.7	5900.5	4681.3	3301.9	2660.0	2653.5	2739.2	2816.8	2870.2	2879.9	2879.9
20°	6552.1	5871.4	4275.4	2845.9	2522.5	2616.3	2708.5	2768.3	2805.5	2818.5	2820.1
22.5°	6623.3	5793.8	3808.1	2508.0	2436.8	2545.2	2611.5	2672.9	2672.9	2640.6	2630.9
25°	6637.8	5627.2	3301.9	2276.8	2335.0	2435.2	2503.1	2467.6	2401.3	2375.4	2373.8
27.5°	6584.5	5384.7	2802.3	2111.8	2212.1	2312.3	2301.0	2249.3	2220.2	2194.3	2204.0
30°	6519.8	5093.6	2368.9	1976.0	2069.8	2168.4	2129.6	2111.8	2090.8	2061.7	2068.2
32.5°	6476.1	4768.6	2035.8	1870.9	1974.4	1990.5	2018.0	2016.4	1997.0	1942.0	1938.8
35°	6489.1	4440.3	1812.7	1785.2	1895.1	1888.7	1940.4	1930.7	1796.5	1720.5	1715.7
37.5°	6592.6	4125.0	1681.7	1717.3	1769.0	1809.4	1854.7	1738.3	1691.4	1642.9	1646.1
40°	6789.8	3832.3	1610.5	1680.1	1693.0	1752.8	1647.7	1646.1	1625.1	1581.4	1579.8
42.5°	7013.0	3584.9	1562.0	1662.3	1644.5	1655.8	1544.3	1557.2	1555.6	1528.1	1520.0
45°	7148.8	3356.9	1523.2	1596.0	1600.8	1487.7	1453.7	1468.3	1476.3	1461.8	1460.2
47.5°	7008.1	3095.0	1482.8	1494.1	1536.2	1411.7	1369.6	1371.2	1385.8	1387.4	1380.9
50°	6613.6	2802.3	1434.3	1406.8	1379.3	1332.4	1293.6	1285.5	1300.1	1314.6	1319.5
52.5°	6104.2	2522.5	1353.4	1311.4	1246.7	1246.7	1228.9	1203.1	1222.5	1241.9	1248.3
55°	5730.7	2315.6	1238.6	1191.7	1120.6	1144.8	1141.6	1119.0	1144.8	1159.4	1164.3
57.5°	4965.9	1861.2	1089.9	1075.3	1015.5	1044.6	1051.1	1022.0	1009.0	1012.3	1017.1
60°	2947.8	1201.4	983.1	981.5	928.2	962.1	981.5	952.4	913.6	918.5	924.9
62.5°	1322.7	918.5	848.9	842.5	840.8	884.5	905.5	878.0	823.1	827.9	834.4
65°	832.8	794.0	737.4	737.4	763.2	800.4	816.6	794.0	730.9	722.8	729.3
67.5°	772.9	739.0	680.8	669.4	682.4	713.1	714.7	671.1	633.9	627.4	627.4
70°	693.7	667.8	611.2	588.6	583.7	582.1	577.3	566.0	541.7	535.2	538.5
72.5°	574.0	556.3	520.7	496.4	483.5	481.9	462.5	452.8	431.7	428.5	426.9
75°	380.0	384.8	384.8	381.6	370.3	365.4	344.4	334.7	310.5	300.8	299.1
77.5°	224.8	229.6	236.1	237.7	236.1	236.1	216.7	205.4	181.1	168.2	164.9
80°	137.4	140.7	143.9	148.8	142.3	137.4	119.7	108.3	97.0	88.9	87.3
82.5°	88.9	92.2	93.8	97.0	93.8	87.3	72.8	66.3	58.2	51.7	50.1
85°	50.1	51.7	55.0	55.0	50.1	45.3	37.2	32.3	27.5	24.3	24.3
87.5°	17.8	17.8	17.8	19.4	16.2	14.6	9.7	6.5	4.9	4.9	4.9
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)