

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: P640197

Luminaire Tested: GWS-SA5D-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 19861.8 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

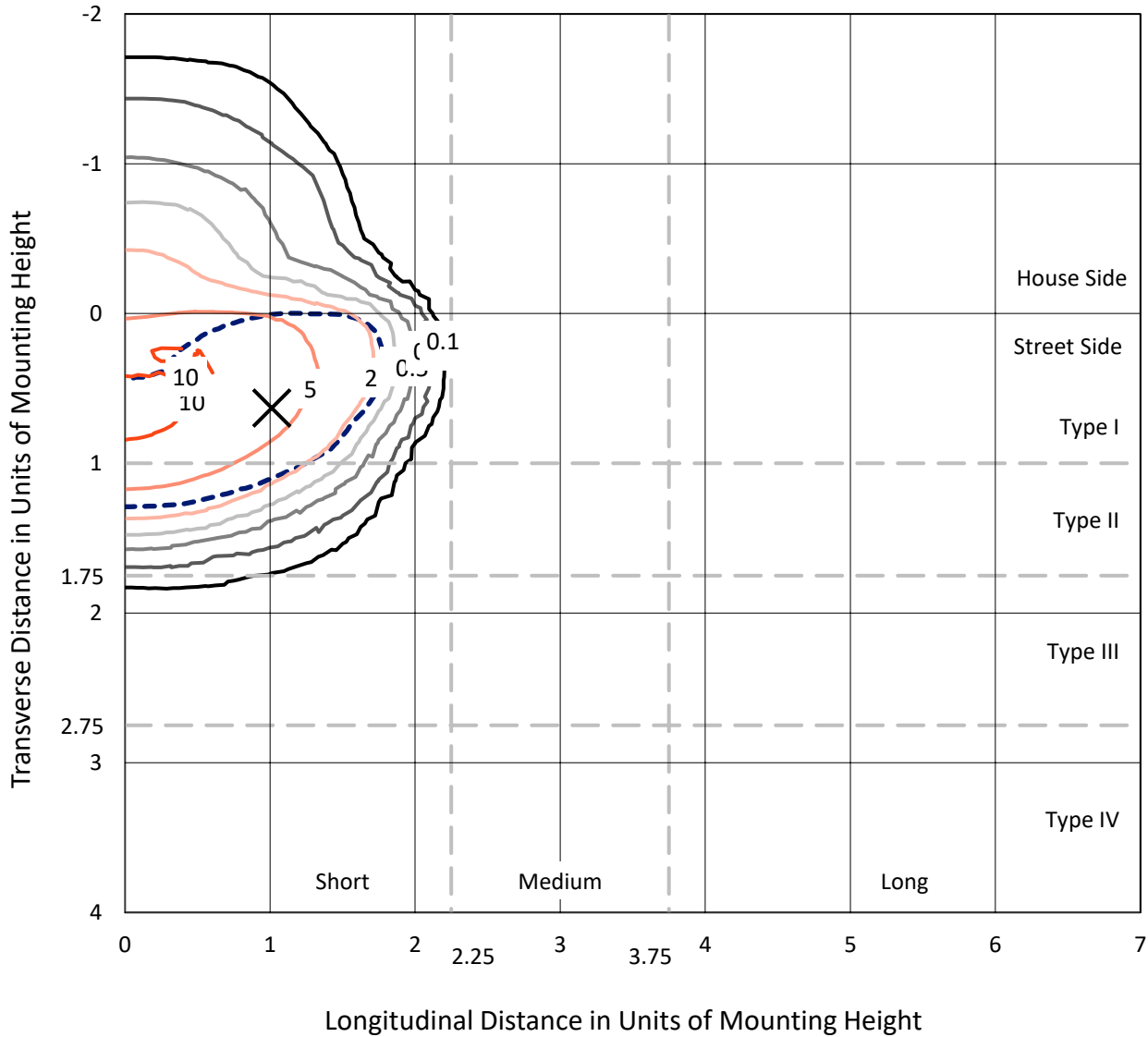
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

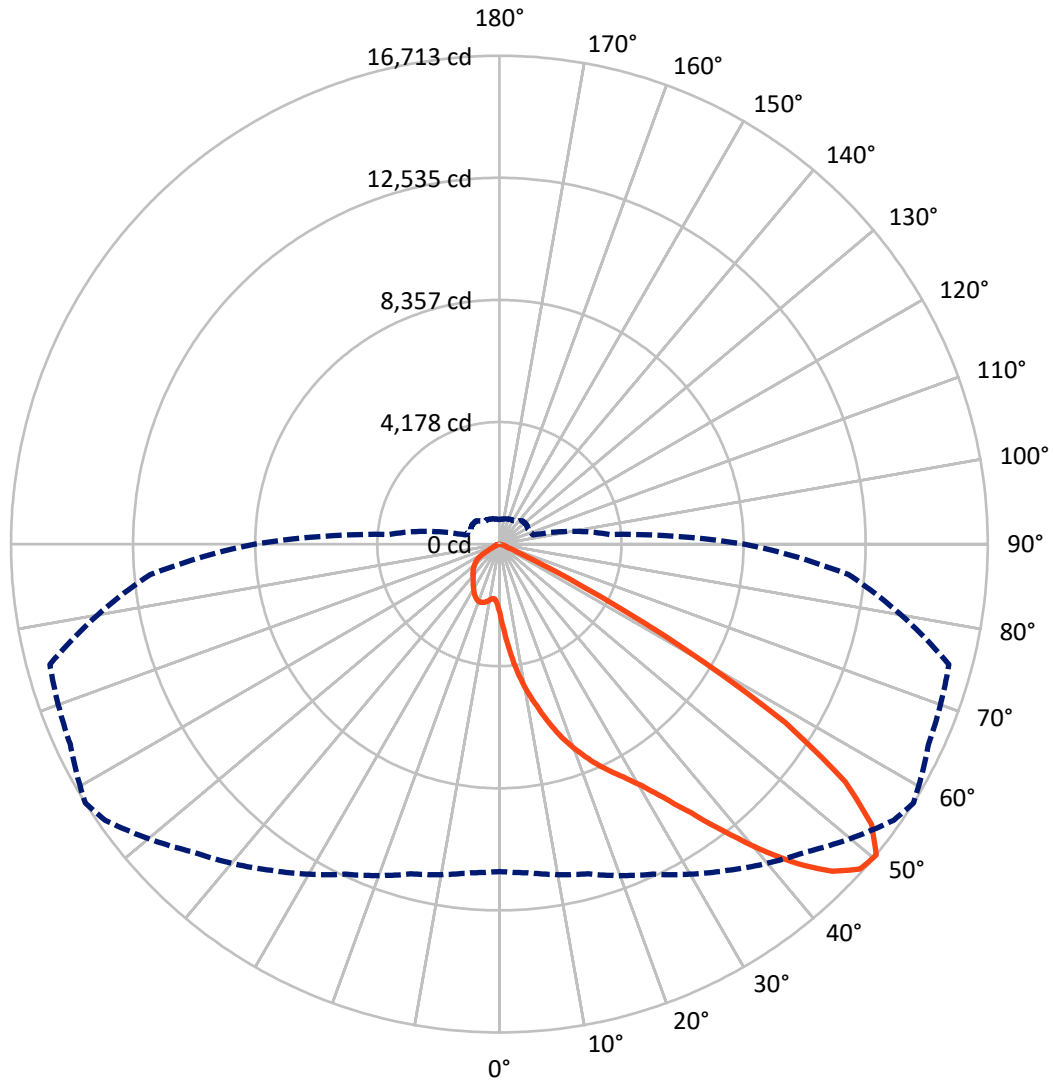
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2781.9	0.0	2781.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17079.9	0.0	17079.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	19861.8	0.0	19861.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.9	1.5
10°-20°	1163.5	5.9
20°-30°	2354.4	11.9
30°-40°	4165.2	21.0
40°-50°	6072.0	30.6
50°-60°	4866.9	24.5
60°-70°	876.8	4.4
70°-80°	69.1	0.3
80°-90°	0.0	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°	19861.8	100.0
0°-180°	19861.8	100.0

Coefficient of Utilization



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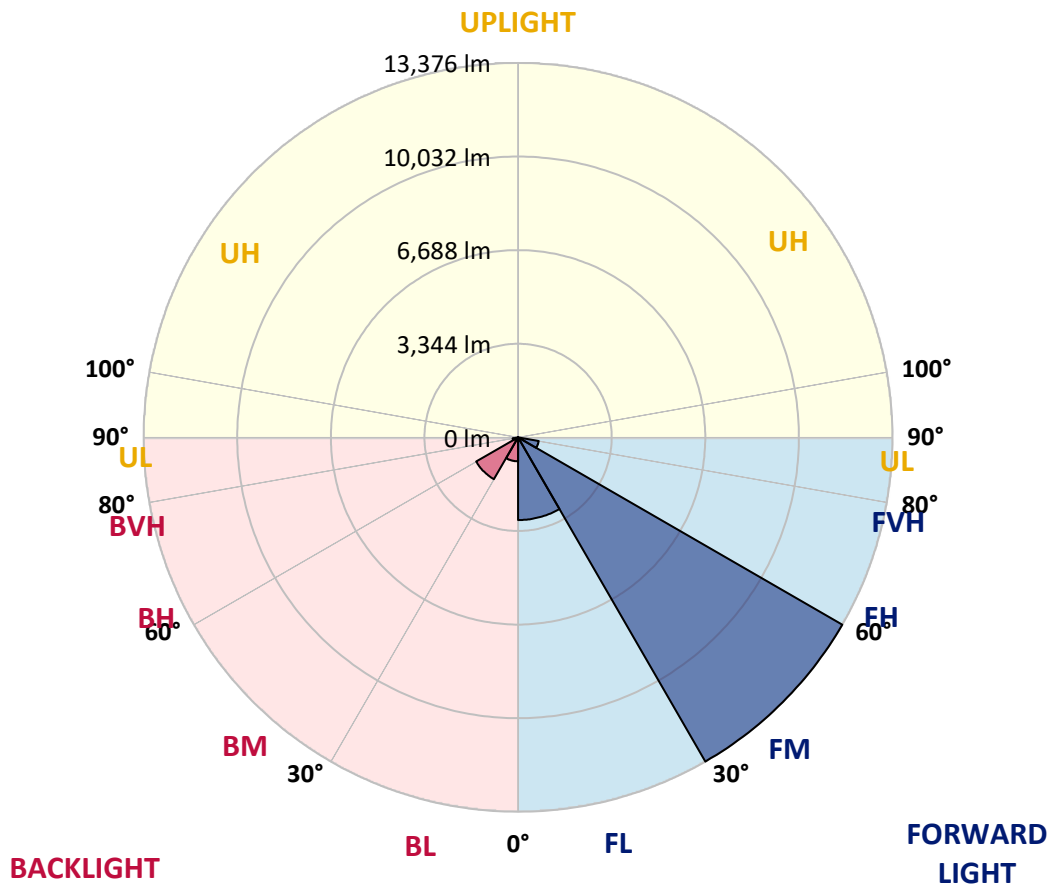
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2955.4	14.9			
FM (30°-60°)	13376.3	67.3			
FH (60°-80°)	748.2	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	856.4	4.3	B2/1000		
BM (30°-60°)	1727.7	8.7	B2/2500		
BH (60°-80°)	197.7	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	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°	58°	65°	75°	85°
0°	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5
2.5°	3510.9	3455.7	3423.8	3398.3	3285.8	3107.3	2990.5	2928.9	2827.0	2654.9	2506.3
5°	4581.4	4541.0	4466.7	4415.7	4271.3	4018.5	3757.3	3653.2	3421.7	3033.0	2684.7
7.5°	5290.8	5261.0	5233.4	5165.5	5029.5	4800.1	4511.3	4403.0	4046.1	3493.9	2922.6
10°	5836.6	5813.3	5781.4	5779.3	5673.1	5467.1	5184.6	5072.0	4685.4	3995.2	3202.9
12.5°	6316.6	6297.5	6291.2	6350.6	6282.7	6129.7	5823.9	5683.7	5273.8	4507.0	3513.0
15°	6645.9	6641.6	6669.2	6786.0	6824.3	6754.2	6497.2	6346.4	5874.9	5021.0	3855.0
17.5°	6796.7	6809.4	6862.5	7064.3	7234.2	7293.7	7096.1	6968.7	6471.7	5541.4	4220.3
20°	7053.7	7049.4	7081.3	7272.4	7480.6	7693.0	7633.5	7525.2	7074.9	6091.5	4626.0
22.5°	7777.9	7716.3	7648.4	7678.1	7752.4	8000.9	8111.4	8056.2	7697.2	6656.5	5044.4
25°	8890.9	8827.2	8608.4	8396.0	8255.8	8368.4	8519.2	8546.8	8315.3	7236.3	5481.9
27.5°	10071.8	10014.4	9768.1	9449.5	9048.0	8852.6	8965.2	9020.4	8922.7	7926.6	5947.1
30°	11178.4	11101.9	10832.2	10437.1	9972.0	9672.5	9545.1	9583.3	9640.6	8744.3	6492.9
32.5°	12138.4	12081.1	11758.2	11341.9	10893.8	10581.5	10284.2	10347.9	10488.1	9744.7	7191.7
35°	12951.9	12922.1	12580.2	12166.0	11692.4	11533.1	11278.2	11290.9	11431.1	10953.2	8043.4
37.5°	13659.2	13608.2	13298.1	12913.6	12537.7	12512.2	12442.1	12448.5	12520.7	12361.4	9022.6
40°	14105.2	14058.5	13837.6	13599.7	13332.1	13336.3	13699.5	13727.1	13644.3	13744.1	10056.9
42.5°	14273.0	14239.0	14120.1	14122.2	14094.6	14219.9	14901.7	14952.6	14655.3	14829.5	10940.5
45°	13982.0	13967.1	13975.6	14281.5	14612.8	14999.4	15885.1	15974.3	15553.7	15549.5	11630.8
47.5°	13043.2	13013.5	13262.0	13782.3	14549.1	15301.0	16479.8	16617.8	16182.4	15961.5	12064.1
50°	11203.9	11288.8	11681.8	12463.4	13629.4	14886.8	16473.4	16713.4	16205.8	15925.4	11991.9
52.5°	8115.6	8098.6	8958.8	10033.6	11452.4	13561.5	15598.3	15948.8	15638.7	15570.7	11830.4
55°	4415.7	4570.8	5150.6	6573.6	8345.0	11053.1	13599.7	14364.3	14723.3	15441.2	12121.4
57.5°	1622.7	1690.7	2053.9	3060.6	4417.8	6873.1	10388.3	11541.6	12650.3	15080.1	12072.6
60°	654.2	666.9	811.4	1125.7	1856.3	3498.2	6231.7	7255.4	8300.4	11543.7	9264.7
62.5°	475.8	492.8	550.1	658.4	938.8	1529.2	2686.8	3124.3	3415.3	5717.7	4564.4
65°	384.4	397.2	443.9	492.8	620.2	822.0	866.6	834.7	830.5	1478.3	1047.1
67.5°	318.6	331.3	365.3	399.3	446.0	409.9	297.4	312.2	254.9	252.8	206.0
70°	233.6	248.5	282.5	318.6	267.6	110.4	172.0	254.9	193.3	161.4	157.2
72.5°	176.3	186.9	218.8	208.1	78.6	42.5	114.7	184.8	148.7	118.9	116.8
75°	131.7	138.1	110.4	34.0	8.5	10.6	42.5	76.5	82.8	68.0	68.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	6.4	8.5	10.6	12.7
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5	2372.5
2.5°	2421.3	2332.1	2204.7	2098.5	2017.8	1939.2	1879.7	1820.2	1818.1	1788.4	1782.0
5°	2523.3	2361.8	2128.2	1960.4	1858.5	1796.9	1754.4	1733.1	1722.5	1711.9	1707.7
7.5°	2669.8	2438.3	2115.5	1937.0	1852.1	1811.7	1782.0	1769.3	1762.9	1754.4	1752.3
10°	2850.3	2548.7	2162.2	1981.7	1907.3	1869.1	1837.2	1818.1	1807.5	1792.6	1788.4
12.5°	3067.0	2684.7	2236.5	2056.0	1977.4	1926.4	1883.9	1856.3	1841.5	1822.4	1818.1
15°	3300.6	2831.2	2319.4	2124.0	2030.5	1964.7	1911.6	1869.1	1841.5	1818.1	1811.7
17.5°	3542.8	2979.9	2393.7	2170.7	2056.0	1977.4	1900.9	1843.6	1809.6	1779.9	1771.4
20°	3814.6	3132.8	2442.5	2179.2	2047.5	1943.4	1854.2	1782.0	1748.0	1707.7	1699.2
22.5°	4099.2	3275.1	2463.8	2160.1	2000.8	1879.7	1784.1	1709.8	1660.9	1618.5	1605.7
25°	4375.3	3402.6	2453.2	2107.0	1930.7	1790.5	1692.8	1616.3	1563.2	1520.8	1510.1
27.5°	4668.5	3508.8	2414.9	2028.4	1835.1	1692.8	1599.3	1533.5	1484.6	1437.9	1427.3
30°	4997.7	3606.5	2353.3	1932.8	1722.5	1593.0	1520.8	1476.1	1423.0	1374.2	1359.3
32.5°	5394.8	3693.6	2264.1	1818.1	1622.7	1505.9	1465.5	1431.5	1370.0	1319.0	1308.4
35°	5849.4	3765.8	2151.6	1699.2	1525.0	1450.7	1442.2	1397.6	1316.9	1257.4	1244.6
37.5°	6376.1	3835.9	2017.8	1582.3	1452.8	1425.2	1427.3	1350.8	1253.1	1180.9	1172.4
40°	6943.2	3906.0	1869.1	1480.4	1386.9	1410.3	1391.2	1282.9	1123.6	1053.5	1045.0
42.5°	7533.7	3982.4	1718.3	1384.8	1331.7	1353.0	1325.3	1146.9	1032.2	996.1	991.9
45°	8066.8	4073.7	1554.7	1289.2	1276.5	1270.1	1223.4	1038.6	989.8	964.3	962.2
47.5°	8451.2	4058.9	1380.6	1197.9	1217.0	1195.8	1053.5	987.6	947.3	913.3	904.8
50°	8381.1	3799.8	1200.0	1096.0	1140.6	1121.4	947.3	928.2	892.1	856.0	843.2
52.5°	8202.7	3447.2	1042.9	987.6	1057.7	1013.1	875.1	856.0	824.1	777.4	762.5
55°	8298.3	3115.8	919.7	900.6	972.8	839.0	794.4	764.6	730.6	679.7	673.3
57.5°	7990.3	2542.4	739.1	751.9	860.2	715.8	696.7	649.9	592.6	558.6	554.4
60°	5530.8	1365.7	463.0	477.9	622.3	601.1	624.4	582.0	511.9	480.0	473.6
62.5°	2540.3	548.0	252.8	242.1	327.1	407.8	535.2	531.0	443.9	392.9	388.7
65°	615.9	250.6	180.5	169.9	184.8	244.3	348.3	418.4	358.9	299.5	293.1
67.5°	199.7	203.9	165.7	155.0	163.5	182.7	208.1	231.5	229.4	210.3	206.0
70°	159.3	184.8	152.9	140.2	140.2	146.6	140.2	112.6	97.7	106.2	110.4
72.5°	118.9	140.2	121.1	108.3	104.1	101.9	87.1	63.7	44.6	40.4	38.2
75°	70.1	78.6	74.3	63.7	59.5	53.1	42.5	27.6	14.9	10.6	6.4
77.5°	12.7	14.9	17.0	12.7	10.6	8.5	6.4	2.1	0.0	0.0	0.0
80°	0.0	2.1	2.1	2.1	0.0	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)