

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: P639698

Luminaire Tested: GWS-SA5C-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639698
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-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: 13950.8 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

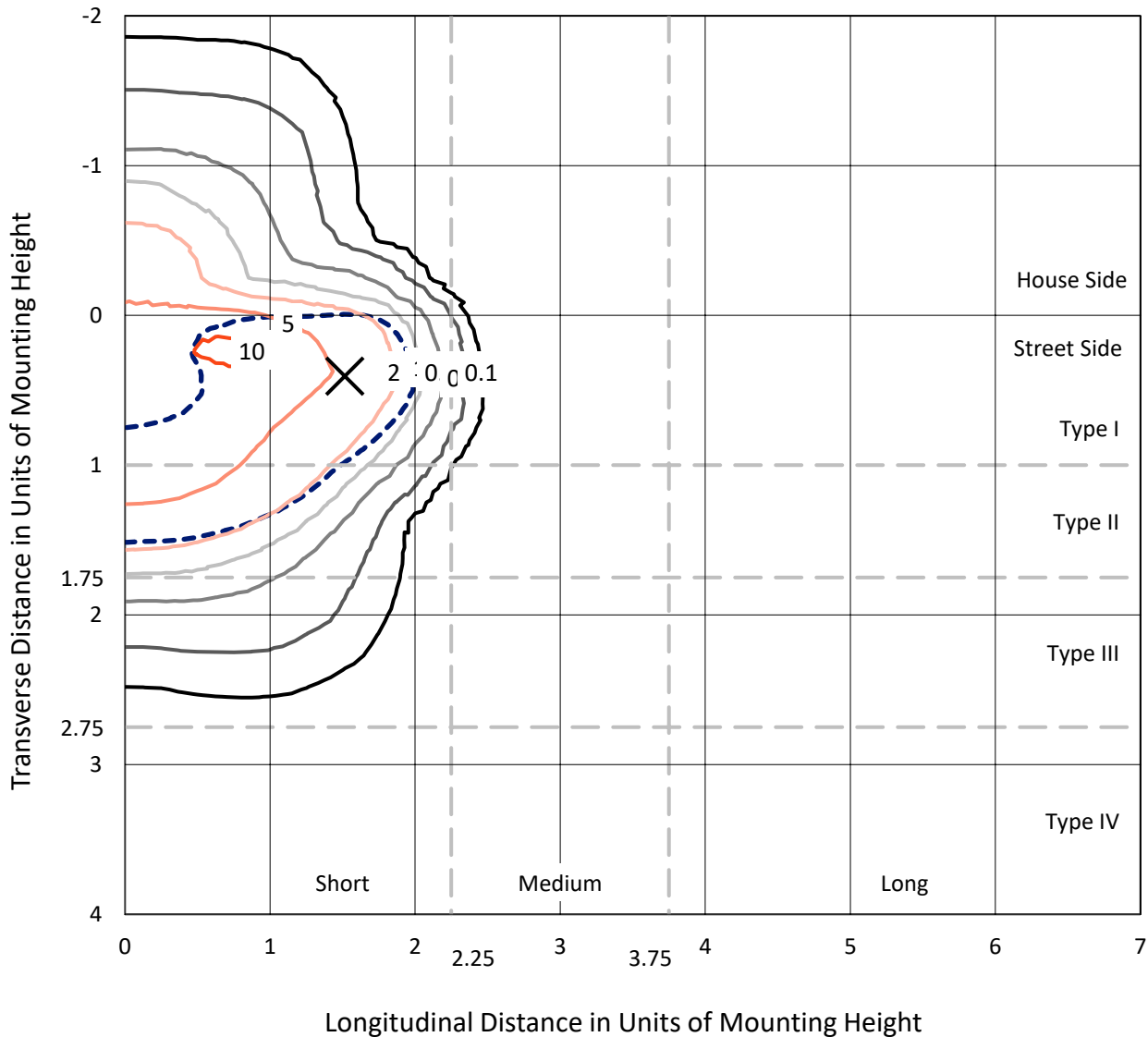
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

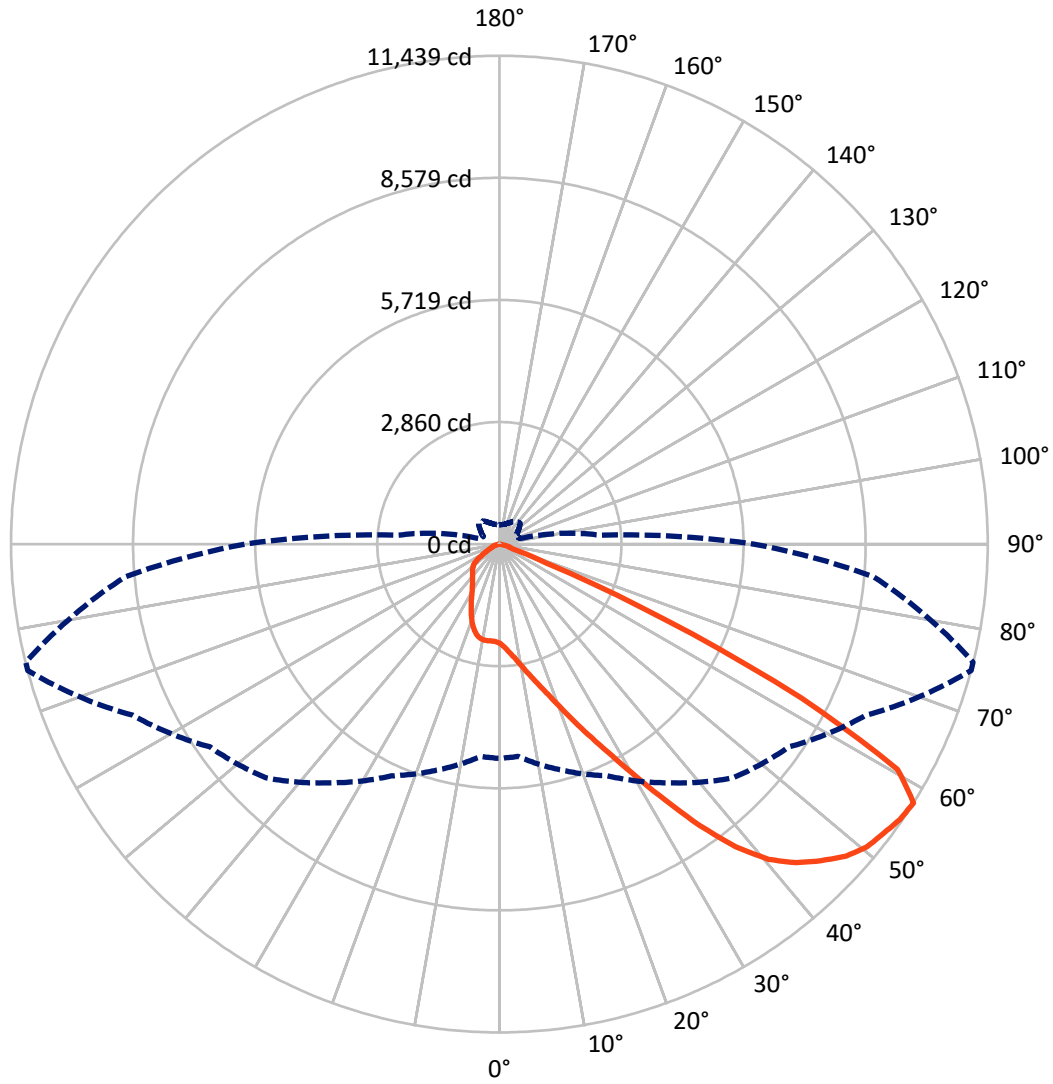
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.9 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	2278.8	0.0	2278.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	11672.0	0.0	11672.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	13950.8	0.0	13950.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	1.7
10°-20°	769.1	5.5
20°-30°	1408.5	10.1
30°-40°	2336.8	16.8
40°-50°	3568.8	25.6
50°-60°	4010.2	28.7
60°-70°	1479.1	10.6
70°-80°	141.4	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°	13950.8	100.0
0°-180°	13950.8	100.0

Coefficient of Utilization



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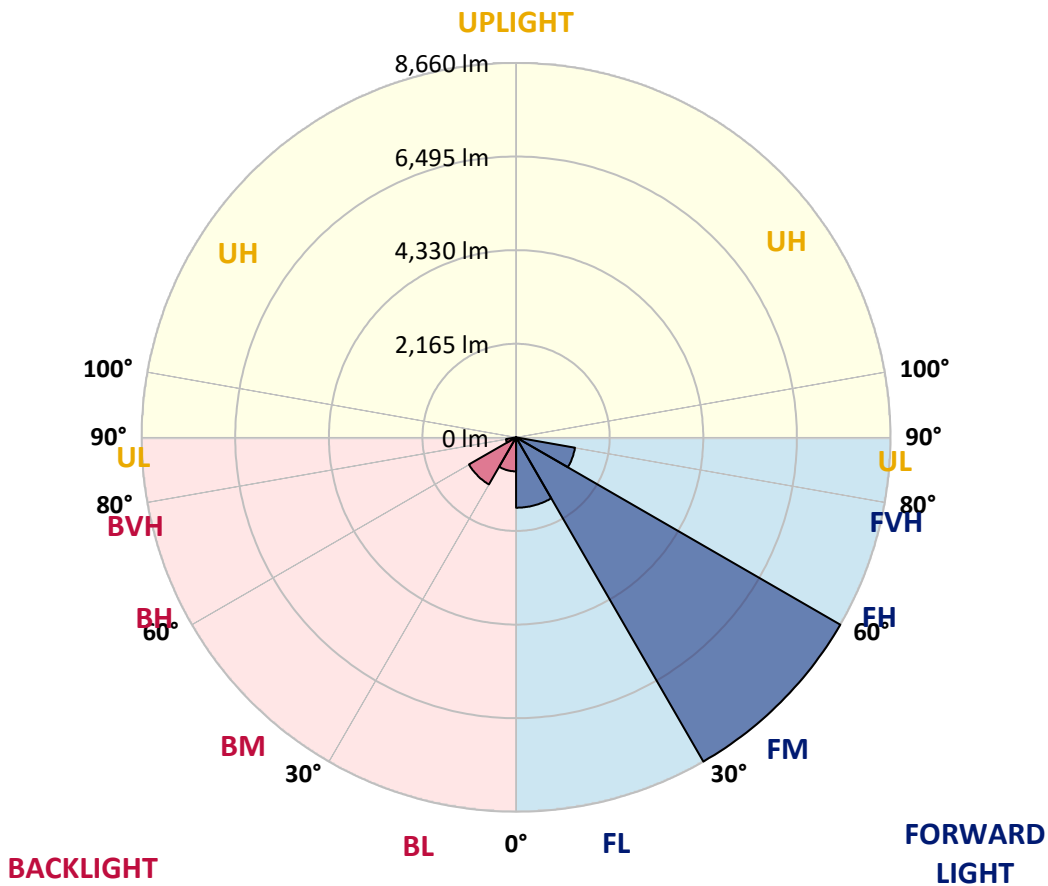
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.0	11.7			
FM (30°-60°)	8660.0	62.1			
FH (60°-80°)	1383.9	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	786.3	5.6	B2/1000		
BM (30°-60°)	1255.8	9.0	B2/2500		
BH (60°-80°)	236.6	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°	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8
2.5°	2599.5	2626.5	2618.1	2601.2	2591.1	2555.8	2533.9	2469.9	2424.5	2419.4	2377.3
5°	2927.9	2922.8	2916.1	2895.9	2879.0	2823.5	2757.8	2650.1	2554.1	2542.3	2453.1
7.5°	3108.0	3111.4	3114.7	3111.4	3099.6	3057.5	2985.1	2858.8	2712.4	2702.3	2560.8
10°	3182.1	3188.8	3205.7	3237.7	3266.3	3262.9	3220.8	3091.2	2911.0	2894.2	2703.9
12.5°	3217.4	3225.9	3252.8	3313.4	3390.9	3451.5	3458.2	3342.0	3143.4	3116.4	2874.0
15°	3266.3	3274.7	3308.4	3387.5	3500.3	3619.8	3697.3	3623.2	3401.0	3372.3	3060.9
17.5°	3288.2	3299.9	3348.8	3453.2	3599.6	3783.2	3958.3	3951.5	3705.7	3683.8	3278.1
20°	3330.3	3338.7	3382.4	3495.2	3672.0	3936.4	4231.0	4337.1	4077.8	4045.8	3540.7
22.5°	3463.3	3466.6	3486.8	3557.5	3722.5	4047.5	4508.8	4786.6	4517.2	4475.1	3835.3
25°	3680.5	3678.8	3687.2	3699.0	3820.2	4160.3	4776.5	5293.4	5020.6	4975.2	4168.7
27.5°	3956.6	3956.6	3976.8	3943.1	3991.9	4300.0	5040.8	5875.9	5606.5	5542.6	4534.1
30°	4281.5	4279.8	4327.0	4273.1	4288.2	4520.6	5325.4	6510.7	6313.7	6234.5	4955.0
32.5°	4722.6	4712.5	4766.4	4692.3	4641.8	4854.0	5672.2	7174.0	7160.5	7039.3	5483.6
35°	5279.9	5263.1	5279.9	5207.5	5116.6	5320.3	6126.8	7835.7	8100.0	7972.1	6113.3
37.5°	5833.8	5887.7	5906.2	5781.6	5707.6	5911.3	6674.0	8428.3	8997.4	8864.4	6768.3
40°	6487.1	6470.3	6534.2	6394.5	6347.3	6573.0	7209.4	8869.4	9707.9	9581.6	7350.8
42.5°	6968.6	6998.9	7078.0	7000.6	6963.6	7175.7	7658.9	9127.0	10201.2	10076.6	7766.7
45°	7546.1	7568.0	7598.3	7534.3	7495.6	7704.4	7983.9	9239.9	10576.7	10442.0	8046.1
47.5°	8170.7	8187.6	8187.6	8056.2	7931.7	8017.5	8201.0	9303.8	10921.8	10792.2	8253.2
50°	8618.6	8627.0	8701.1	8608.5	8337.4	8204.4	8300.4	9366.1	11150.8	11029.6	8320.6
52.5°	8221.2	8211.1	8455.3	8647.2	8719.6	8455.3	8472.1	9457.0	11261.9	11157.5	8374.5
55°	6923.2	6906.3	7249.8	7716.2	8354.3	8692.7	8679.2	9510.9	11384.8	11320.8	8569.8
57.5°	5018.9	4990.3	5468.5	5987.0	6823.8	7741.4	8280.2	9480.6	11438.7	11433.6	8797.1
60°	3017.1	2993.5	3444.7	3990.2	4636.8	5559.4	6453.4	8492.3	10718.1	10728.2	8206.1
62.5°	1857.1	1878.9	2286.4	2564.2	2805.0	3082.8	3599.6	5712.6	7940.1	8005.7	5766.5
65°	1249.3	1266.1	1643.2	1993.4	1993.4	1629.8	1399.1	2730.9	4236.1	4124.9	2727.5
67.5°	838.5	857.0	1155.0	1564.1	1623.0	1136.5	567.4	814.9	1180.2	1144.9	675.1
70°	493.3	513.5	769.4	1072.5	1181.9	791.3	378.8	345.1	335.0	324.9	262.6
72.5°	220.6	229.0	392.3	545.5	498.4	333.4	267.7	276.1	261.0	255.9	213.8
75°	67.3	70.7	101.0	117.9	119.5	119.5	161.6	217.2	205.4	207.1	165.0
77.5°	16.8	16.8	26.9	25.3	13.5	11.8	30.3	48.8	50.5	45.5	33.7
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°	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8	2326.8
2.5°	2358.8	2315.0	2286.4	2246.0	2217.4	2187.1	2160.1	2138.2	2126.4	2123.1	2124.8
5°	2412.7	2343.6	2276.3	2198.8	2145.0	2094.5	2054.0	2022.1	2006.9	2001.9	2001.9
7.5°	2495.2	2399.2	2279.7	2158.4	2067.5	1988.4	1941.2	1905.9	1892.4	1889.1	1878.9
10°	2602.9	2471.6	2274.6	2086.0	1958.1	1875.6	1841.9	1831.8	1836.9	1838.5	1836.9
12.5°	2732.6	2547.4	2242.6	1980.0	1841.9	1791.4	1794.8	1821.7	1852.0	1867.2	1870.5
15°	2870.6	2616.4	2170.2	1853.7	1742.6	1740.9	1789.7	1852.0	1910.9	1936.2	1942.9
17.5°	3025.5	2671.9	2059.1	1719.0	1656.7	1705.5	1793.1	1889.1	1968.2	2010.3	2018.7
20°	3195.6	2717.4	1917.7	1592.7	1580.9	1668.5	1789.7	1907.6	2005.2	2052.4	2060.8
22.5°	3372.3	2749.4	1754.4	1476.6	1511.9	1626.4	1757.7	1872.2	1964.8	2018.7	2025.4
25°	3574.4	2752.8	1587.7	1378.9	1447.9	1569.2	1680.3	1774.6	1852.0	1899.2	1904.2
27.5°	3751.2	2712.4	1439.5	1299.8	1389.0	1498.4	1572.5	1624.7	1678.6	1705.5	1707.2
30°	3954.9	2641.6	1299.8	1235.8	1328.4	1410.9	1447.9	1459.7	1464.8	1469.8	1463.1
32.5°	4197.3	2555.8	1195.4	1173.5	1259.4	1314.9	1325.0	1301.5	1272.8	1232.4	1222.3
35°	4495.3	2478.3	1109.5	1112.9	1183.6	1217.3	1208.9	1158.3	1102.8	1054.0	1045.5
37.5°	4818.6	2412.7	1043.9	1054.0	1101.1	1124.7	1099.4	1043.9	1018.6	976.5	978.2
40°	5104.8	2358.8	984.9	995.0	1016.9	1038.8	998.4	961.4	1008.5	1005.1	1008.5
42.5°	5308.5	2313.3	934.4	929.4	944.5	959.7	929.4	910.9	990.0	968.1	979.9
45°	5428.1	2271.2	892.3	862.0	885.6	912.5	892.3	868.8	895.7	794.7	786.3
47.5°	5508.9	2247.7	855.3	796.4	838.5	885.6	843.5	786.3	747.5	660.0	653.3
50°	5517.3	2235.9	811.5	729.0	782.9	833.4	784.6	705.4	649.9	611.2	606.1
52.5°	5561.1	2259.5	750.9	643.2	702.1	782.9	749.2	670.1	594.3	560.7	553.9
55°	5756.4	2358.8	649.9	525.3	611.2	744.2	720.6	597.7	525.3	505.1	500.0
57.5°	5958.4	2379.0	511.8	415.9	532.0	688.6	658.3	550.6	479.8	456.3	451.2
60°	5448.3	1959.8	383.9	343.5	469.7	636.4	609.5	521.9	439.4	410.8	405.8
62.5°	3579.4	1059.0	304.7	291.3	395.7	538.8	555.6	471.4	392.3	362.0	360.3
65°	1650.0	491.6	234.0	230.7	309.8	429.3	478.2	412.5	331.7	304.7	304.7
67.5°	449.5	244.1	183.5	170.0	210.5	287.9	348.5	308.1	235.7	203.7	202.0
70°	223.9	197.0	165.0	146.5	151.5	178.5	205.4	171.7	119.5	97.7	96.0
72.5°	183.5	161.6	139.7	124.6	114.5	109.4	106.1	85.9	55.6	42.1	40.4
75°	136.4	116.2	99.3	80.8	69.0	64.0	57.2	42.1	23.6	13.5	11.8
77.5°	30.3	28.6	26.9	20.2	18.5	15.2	11.8	8.4	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)