

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: P643002

Luminaire Tested: GWS-SA6E-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643002
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-SAGE-722-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22103.6 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

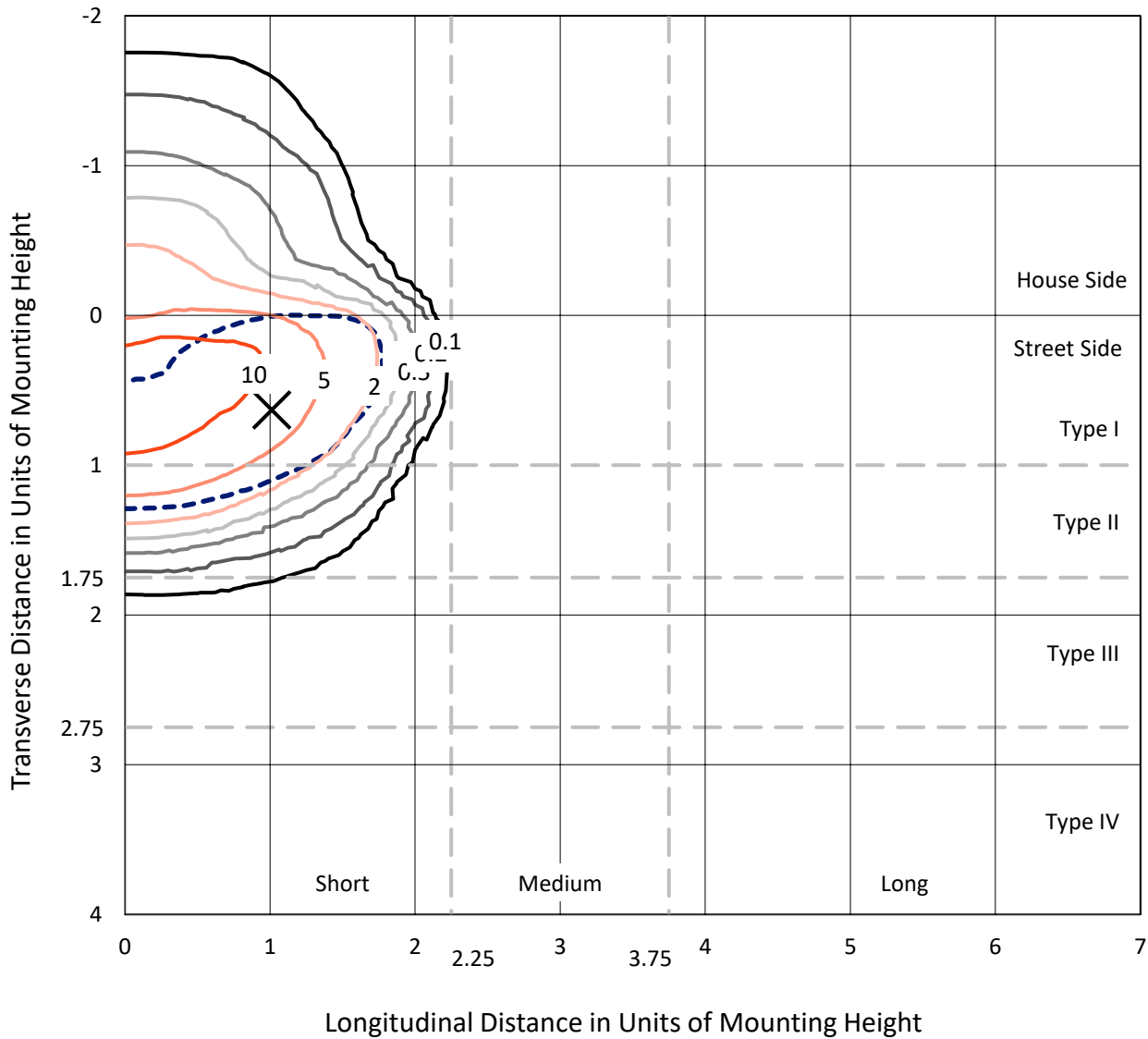
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

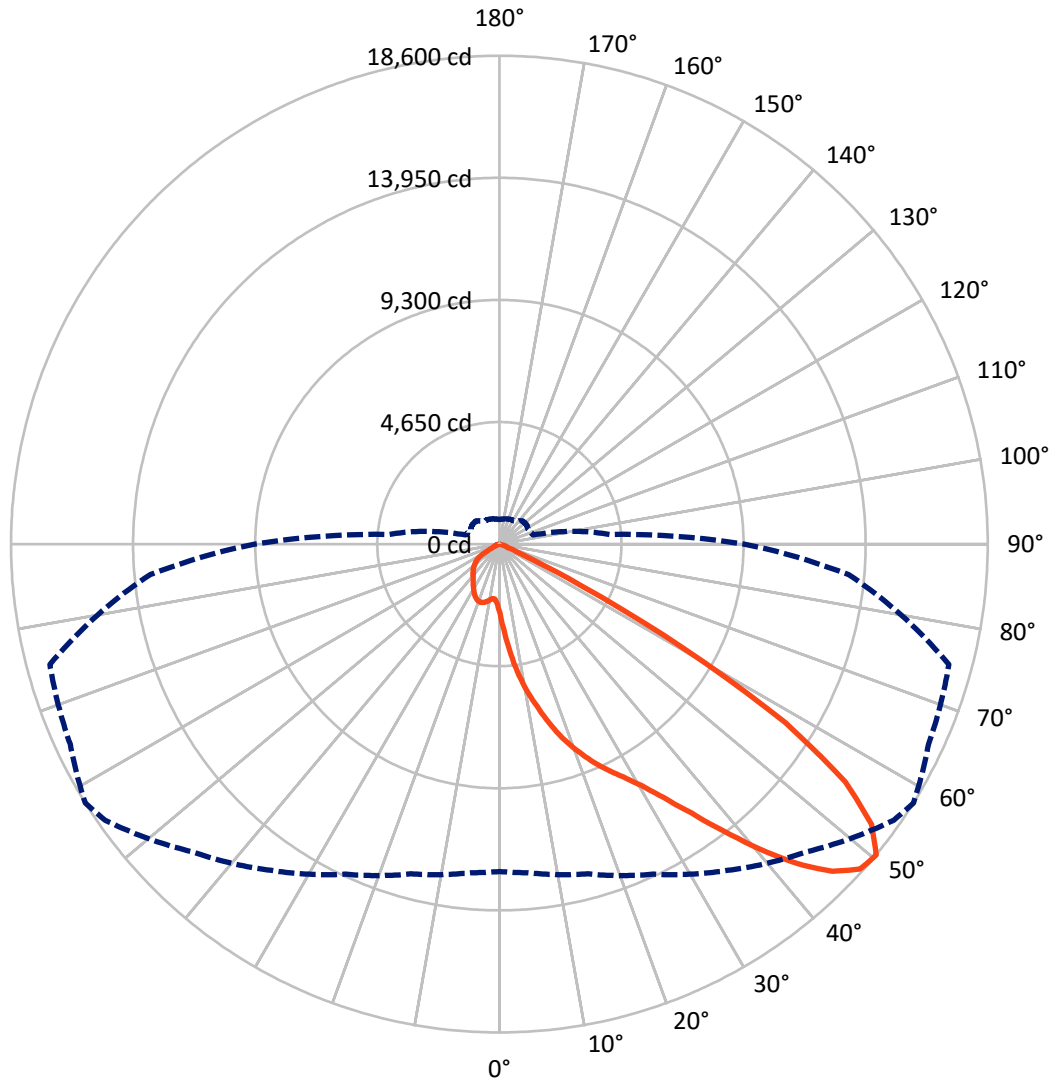
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	3095.9	0.0	3095.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19007.7	0.0	19007.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	22103.6	0.0	22103.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.1	1.5
10°-20°	1294.8	5.9
20°-30°	2620.1	11.9
30°-40°	4635.3	21.0
40°-50°	6757.3	30.6
50°-60°	5416.2	24.5
60°-70°	975.8	4.4
70°-80°	76.9	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°	22103.6	100.0
0°-180°	22103.6	100.0

Coefficient of Utilization



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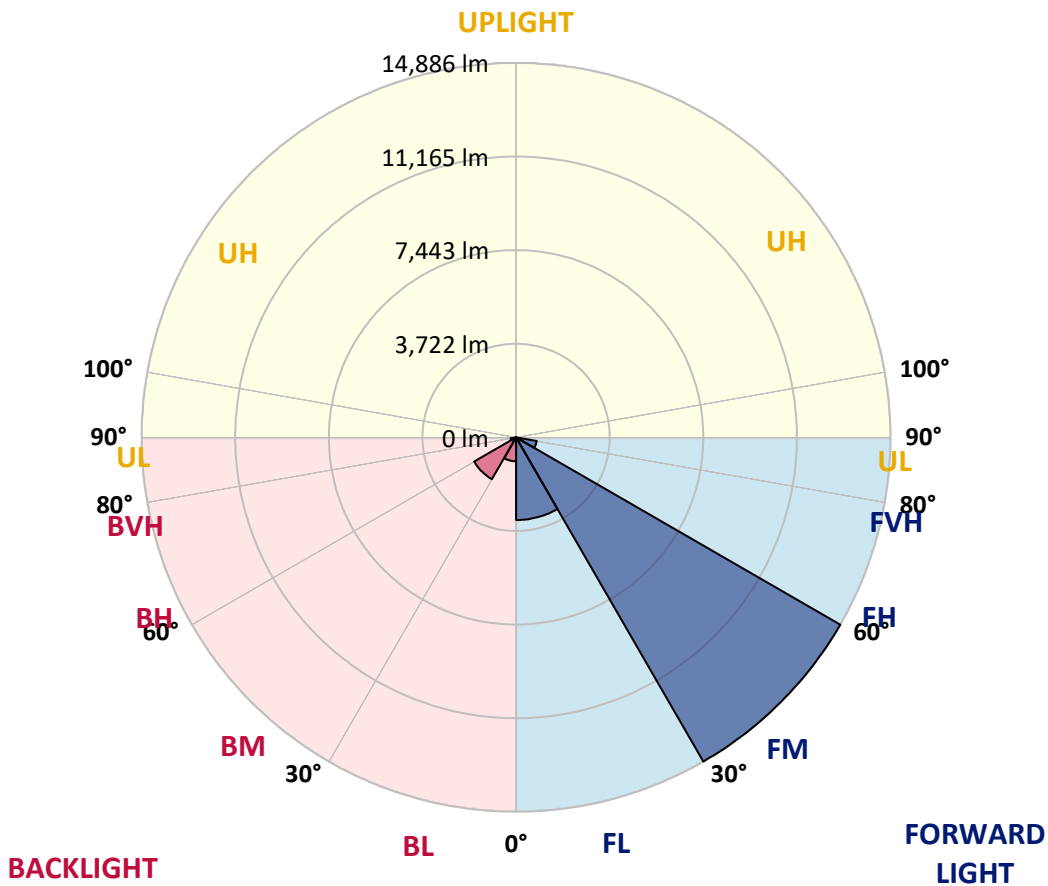
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3288.9	14.9			
FM (30°-60°)	14886.1	67.3			
FH (60°-80°)	832.6	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	953.1	4.3	B2/1000		
BM (30°-60°)	1922.7	8.7	B2/2500		
BH (60°-80°)	220.0	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°	2640.2	2640.2	2640.2	2640.2	2640.2	2640.2	2640.2	2640.2	2640.2	2640.2	2640.2
2.5°	3907.2	3845.7	3810.3	3781.9	3656.6	3458.1	3328.1	3259.5	3146.1	2954.6	2789.1
5°	5098.5	5053.6	4970.8	4914.1	4753.4	4472.1	4181.4	4065.5	3807.9	3375.3	2987.7
7.5°	5887.9	5854.8	5824.1	5748.5	5597.2	5341.9	5020.5	4899.9	4502.8	3888.3	3252.4
10°	6495.4	6469.4	6434.0	6431.6	6313.4	6084.1	5769.8	5644.5	5214.3	4446.1	3564.4
12.5°	7029.6	7008.3	7001.2	7067.4	6991.8	6821.6	6481.2	6325.2	5869.0	5015.7	3909.5
15°	7396.0	7391.2	7422.0	7552.0	7594.5	7516.5	7230.5	7062.7	6538.0	5587.8	4290.1
17.5°	7563.8	7578.0	7637.1	7861.6	8050.7	8116.9	7897.1	7755.3	7202.2	6166.9	4696.6
20°	7849.8	7845.1	7880.5	8093.3	8324.9	8561.3	8495.1	8374.5	7873.4	6779.1	5148.1
22.5°	8655.8	8587.3	8511.6	8544.7	8627.5	8904.0	9026.9	8965.5	8566.0	7407.8	5613.8
25°	9894.4	9823.5	9580.0	9343.7	9187.6	9312.9	9480.7	9511.5	9253.8	8053.1	6100.7
27.5°	11208.6	11144.8	10870.6	10516.0	10069.3	9851.8	9977.1	10038.6	9929.8	8821.3	6618.3
30°	12440.1	12355.0	12054.8	11615.2	11097.5	10764.2	10622.4	10665.0	10728.8	9731.3	7225.8
32.5°	13508.5	13444.6	13085.4	12622.1	12123.3	11775.9	11445.0	11515.9	11671.9	10844.6	8003.4
35°	14413.8	14380.7	14000.1	13539.2	13012.1	12834.8	12551.2	12565.4	12721.4	12189.5	8951.3
37.5°	15200.9	15144.1	14799.0	14371.2	13952.8	13924.5	13846.5	13853.6	13933.9	13756.7	10040.9
40°	15697.2	15645.2	15399.4	15134.7	14836.9	14841.6	15245.8	15276.5	15184.3	15295.4	11192.1
42.5°	15884.0	15846.1	15713.8	15716.1	15685.4	15824.9	16583.6	16640.3	16309.4	16503.3	12175.3
45°	15560.1	15543.6	15553.1	15893.4	16262.2	16692.3	17678.0	17777.3	17309.3	17304.5	12943.5
47.5°	14515.4	14482.3	14758.9	15338.0	16191.2	17028.0	18339.8	18493.5	18008.9	17763.1	13425.7
50°	12468.4	12563.0	13000.3	13870.1	15167.8	16567.1	18332.7	18599.8	18034.9	17722.9	13345.4
52.5°	9031.6	9012.7	9970.0	11166.1	12745.0	15092.1	17358.9	17748.9	17403.8	17328.2	13165.7
55°	4914.1	5086.7	5731.9	7315.6	9286.9	12300.6	15134.7	15985.6	16385.1	17184.0	13489.6
57.5°	1805.9	1881.5	2285.7	3406.1	4916.5	7648.9	11560.8	12844.3	14078.1	16782.2	13435.2
60°	728.0	742.2	902.9	1252.8	2065.9	3893.0	6935.1	8074.4	9237.3	12846.6	10310.4
62.5°	529.5	548.4	612.2	732.7	1044.7	1701.9	2990.1	3477.0	3800.8	6363.0	5079.6
65°	427.8	442.0	494.0	548.4	690.2	914.7	964.4	928.9	924.2	1645.1	1165.3
67.5°	354.6	368.7	406.6	444.4	496.4	456.2	330.9	347.5	283.6	281.3	229.3
70°	260.0	276.6	314.4	354.6	297.8	122.9	191.5	283.6	215.1	179.6	174.9
72.5°	196.2	208.0	243.5	231.6	87.5	47.3	127.6	205.6	165.5	132.4	130.0
75°	146.5	153.6	122.9	37.8	9.5	11.8	47.3	85.1	92.2	75.6	75.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.7	7.1	9.5	11.8	14.2
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°	2640.2	2640.2	2640.2	2640.2	2640.2	2640.2	2640.2	2640.2	2640.2	2640.2	2640.2
2.5°	2694.6	2595.3	2453.5	2335.3	2245.5	2158.0	2091.9	2025.7	2023.3	1990.2	1983.1
5°	2808.1	2628.4	2368.4	2181.7	2068.2	1999.7	1952.4	1928.8	1916.9	1905.1	1900.4
7.5°	2971.2	2713.5	2354.2	2155.7	2061.1	2016.2	1983.1	1969.0	1961.9	1952.4	1950.0
10°	3172.1	2836.4	2406.2	2205.3	2122.6	2080.0	2044.6	2023.3	2011.5	1995.0	1990.2
12.5°	3413.2	2987.7	2489.0	2288.0	2200.6	2143.9	2096.6	2065.9	2049.3	2028.0	2023.3
15°	3673.2	3150.8	2581.1	2363.7	2259.7	2186.4	2127.3	2080.0	2049.3	2023.3	2016.2
17.5°	3942.6	3316.3	2663.9	2415.7	2288.0	2200.6	2115.5	2051.7	2013.9	1980.8	1971.3
20°	4245.2	3486.4	2718.2	2425.1	2278.6	2162.8	2063.5	1983.1	1945.3	1900.4	1890.9
22.5°	4561.9	3644.8	2741.9	2403.9	2226.6	2091.9	1985.5	1902.8	1848.4	1801.1	1786.9
25°	4869.2	3786.6	2730.1	2344.8	2148.6	1992.6	1883.9	1798.8	1739.7	1692.4	1680.6
27.5°	5195.4	3904.8	2687.5	2257.3	2042.2	1883.9	1779.9	1706.6	1652.2	1600.2	1588.4
30°	5561.8	4013.5	2619.0	2151.0	1916.9	1772.8	1692.4	1642.8	1583.7	1529.3	1512.8
32.5°	6003.8	4110.4	2519.7	2023.3	1805.9	1675.9	1630.9	1593.1	1524.6	1467.8	1456.0
35°	6509.6	4190.8	2394.4	1890.9	1697.1	1614.4	1604.9	1555.3	1465.5	1399.3	1385.1
37.5°	7095.8	4268.8	2245.5	1760.9	1616.8	1586.0	1588.4	1503.3	1394.6	1314.2	1304.8
40°	7726.9	4346.8	2080.0	1647.5	1543.5	1569.5	1548.2	1427.7	1250.4	1172.4	1162.9
42.5°	8384.0	4431.9	1912.2	1541.1	1482.0	1505.7	1474.9	1276.4	1148.8	1108.6	1103.8
45°	8977.3	4533.5	1730.2	1434.8	1420.6	1413.5	1361.5	1155.8	1101.5	1073.1	1070.7
47.5°	9405.1	4517.0	1536.4	1333.1	1354.4	1330.8	1172.4	1099.1	1054.2	1016.4	1006.9
50°	9327.1	4228.6	1335.5	1219.7	1269.3	1248.0	1054.2	1032.9	992.7	952.6	938.4
52.5°	9128.6	3836.3	1160.6	1099.1	1177.1	1127.5	973.8	952.6	917.1	865.1	848.6
55°	9234.9	3467.5	1023.5	1002.2	1082.6	933.7	884.0	850.9	813.1	756.4	749.3
57.5°	8892.2	2829.3	822.6	836.7	957.3	796.6	775.3	723.3	659.5	621.6	616.9
60°	6155.0	1519.8	515.3	531.8	692.6	668.9	694.9	647.6	569.6	534.2	527.1
62.5°	2827.0	609.8	281.3	269.5	364.0	453.8	595.6	590.9	494.0	437.3	432.6
65°	685.5	278.9	200.9	189.1	205.6	271.8	387.6	465.6	399.5	333.3	326.2
67.5°	222.2	226.9	184.4	172.5	182.0	203.3	231.6	257.6	255.3	234.0	229.3
70°	177.3	205.6	170.2	156.0	156.0	163.1	156.0	125.3	108.7	118.2	122.9
72.5°	132.4	156.0	134.7	120.5	115.8	113.5	96.9	70.9	49.6	44.9	42.5
75°	78.0	87.5	82.7	70.9	66.2	59.1	47.3	30.7	16.5	11.8	7.1
77.5°	14.2	16.5	18.9	14.2	11.8	9.5	7.1	2.4	0.0	0.0	0.0
80°	0.0	2.4	2.4	2.4	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)