

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: P642727

Luminaire Tested: GWS-SA6D-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642727
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-SA6D-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24012.9 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

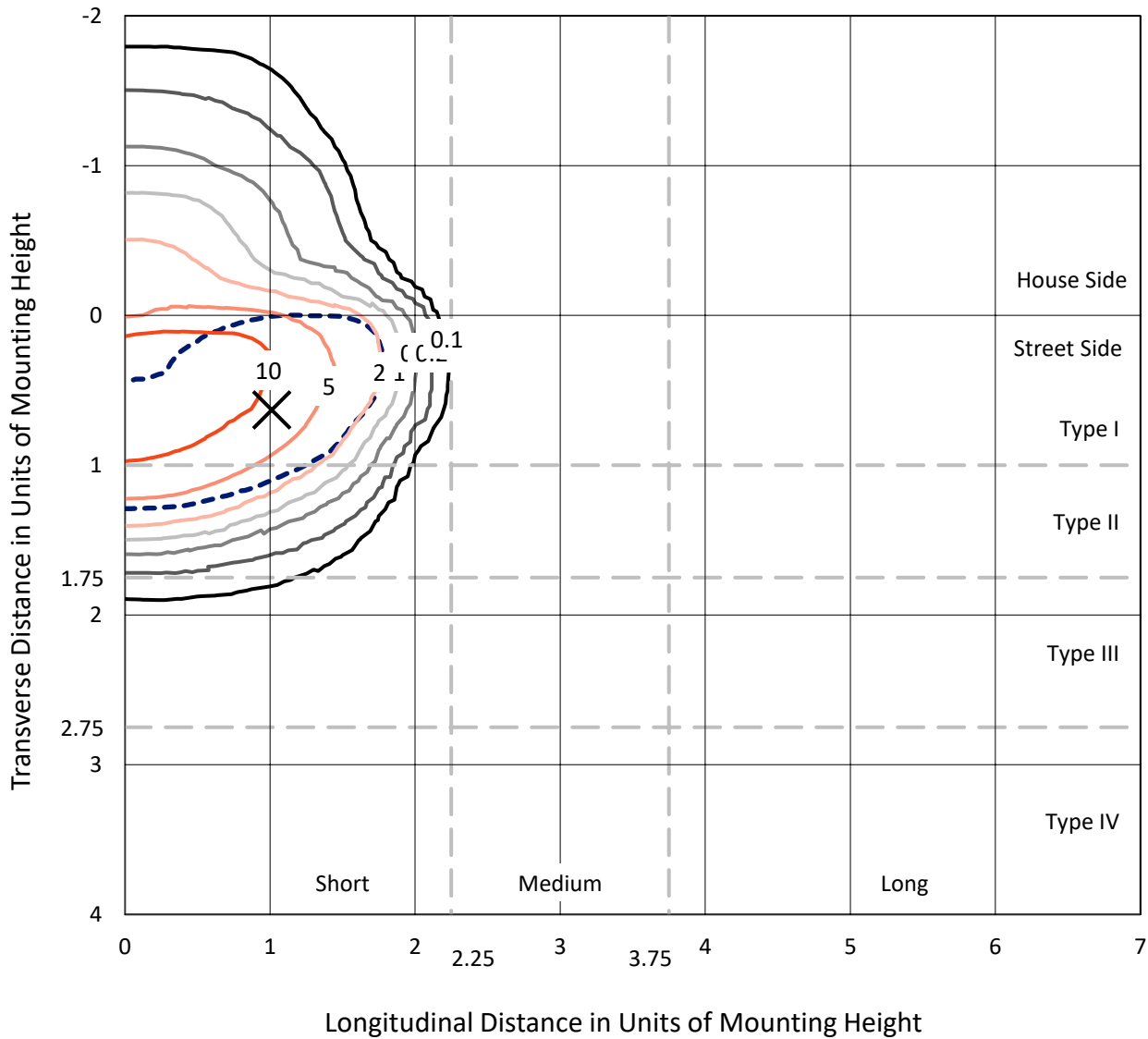
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

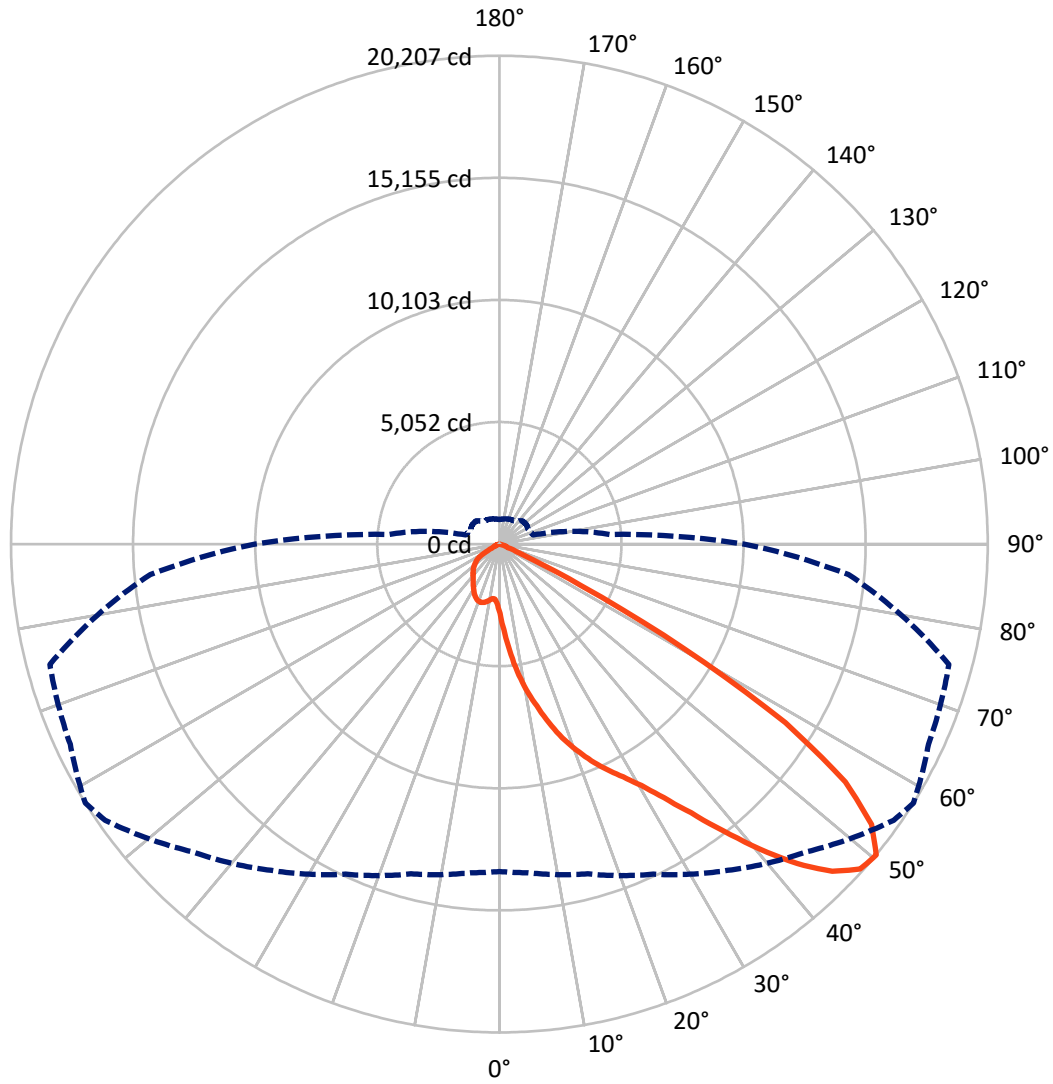
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	3363.3	0.0	3363.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20649.6	0.0	20649.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	24012.9	0.0	24012.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.3	1.5
10°-20°	1406.7	5.9
20°-30°	2846.5	11.9
30°-40°	5035.7	21.0
40°-50°	7341.0	30.6
50°-60°	5884.0	24.5
60°-70°	1060.1	4.4
70°-80°	83.5	0.3
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°	24012.9	100.0
0°-180°	24012.9	100.0

Coefficient of Utilization



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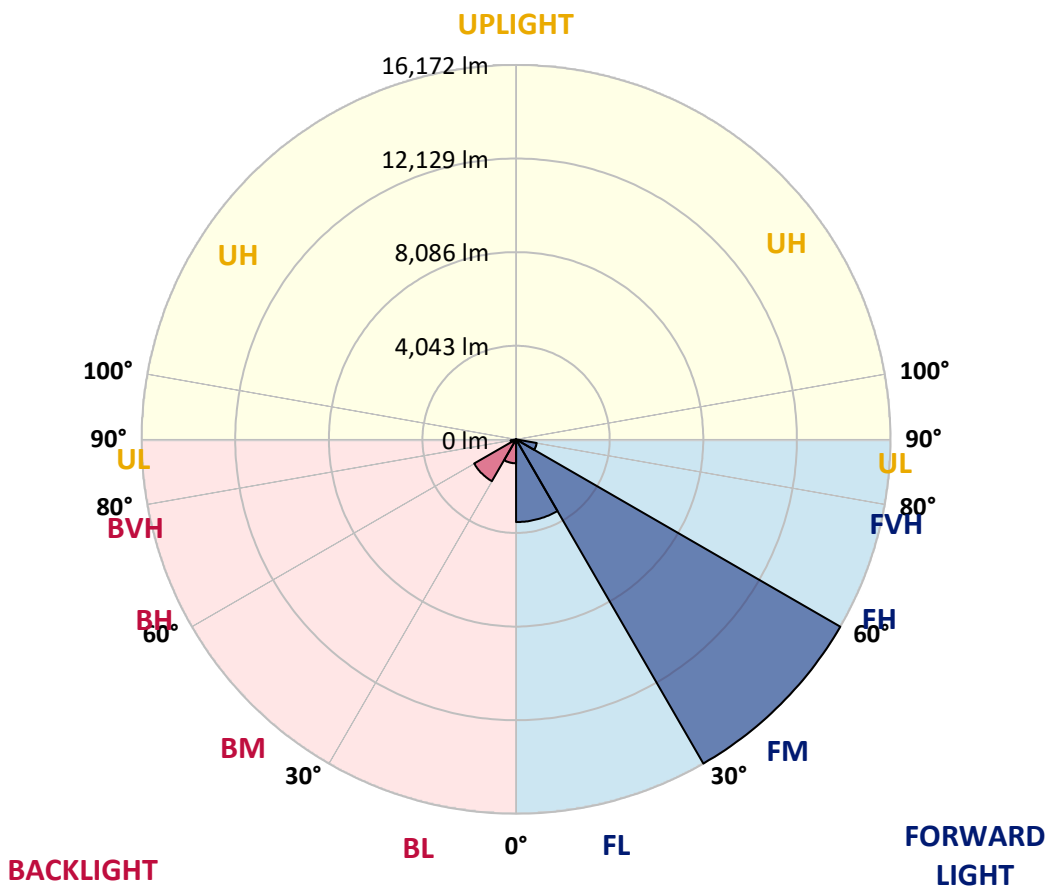
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3573.0	14.9			
FM (30°-60°)	16172.0	67.3			
FH (60°-80°)	904.6	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1035.4	4.3	B3/2500		
BM (30°-60°)	2088.8	8.7	B2/2500		
BH (60°-80°)	239.1	1.0	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: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2868.3	2868.3	2868.3	2868.3	2868.3	2868.3	2868.3	2868.3	2868.3	2868.3	2868.3
2.5°	4244.7	4177.9	4139.4	4108.6	3972.5	3756.8	3615.5	3541.1	3417.8	3209.8	3030.1
5°	5538.9	5490.1	5400.2	5338.6	5164.0	4858.4	4542.5	4416.7	4136.8	3666.9	3245.8
7.5°	6396.5	6360.6	6327.2	6245.0	6080.7	5803.4	5454.1	5323.2	4891.8	4224.1	3533.4
10°	7056.5	7028.2	6989.7	6987.1	6858.8	6609.7	6268.1	6132.0	5664.7	4830.1	3872.3
12.5°	7636.8	7613.7	7606.0	7677.9	7595.7	7410.8	7041.1	6871.6	6376.0	5449.0	4247.2
15°	8034.8	8029.7	8063.1	8204.3	8250.5	8165.8	7855.1	7672.8	7102.7	6070.4	4660.7
17.5°	8217.2	8232.6	8296.8	8540.7	8746.1	8818.0	8579.2	8425.1	7824.3	6699.5	5102.3
20°	8527.9	8522.7	8561.2	8792.4	9044.0	9300.8	9228.9	9097.9	8553.5	7364.6	5592.8
22.5°	9403.5	9329.0	9246.9	9282.8	9372.7	9673.1	9806.7	9739.9	9305.9	8047.7	6098.7
25°	10749.1	10672.0	10407.5	10150.8	9981.3	10117.4	10299.7	10333.1	10053.2	8748.7	6627.6
27.5°	12176.8	12107.5	11809.6	11424.4	10939.1	10702.8	10838.9	10905.7	10787.6	9583.3	7190.0
30°	13514.6	13422.2	13096.1	12618.5	12056.1	11694.0	11540.0	11586.2	11655.5	10571.9	7849.9
32.5°	14675.3	14606.0	14215.7	13712.4	13170.6	12793.1	12433.6	12510.6	12680.1	11781.3	8694.8
35°	15658.8	15622.9	15209.4	14708.7	14136.1	13943.5	13635.3	13650.7	13820.2	13242.5	9724.5
37.5°	16513.9	16452.3	16077.4	15612.6	15158.1	15127.3	15042.5	15050.2	15137.5	14944.9	10908.3
40°	17053.2	16996.7	16729.6	16442.0	16118.5	16123.6	16562.7	16596.1	16495.9	16616.6	12158.8
42.5°	17256.0	17214.9	17071.1	17073.7	17040.3	17191.8	18016.1	18077.7	17718.2	17928.8	13227.0
45°	16904.2	16886.2	16896.5	17266.3	17666.9	18134.2	19205.0	19312.9	18804.4	18799.3	14061.6
47.5°	15769.2	15733.3	16033.7	16662.8	17589.8	18498.9	19924.0	20090.9	19564.5	19297.5	14585.4
50°	13545.5	13648.2	14123.2	15068.2	16478.0	17998.1	19916.3	20206.5	19592.8	19253.8	14498.1
52.5°	9811.8	9791.3	10831.2	12130.6	13845.9	16395.8	18858.4	19282.1	18907.2	18825.0	14303.0
55°	5338.6	5526.0	6227.1	7947.5	10089.1	13363.1	16442.0	17366.4	17800.4	18668.3	14654.8
57.5°	1961.8	2044.0	2483.1	3700.3	5341.1	8309.6	12559.4	13953.8	15294.2	18231.8	14595.7
60°	790.9	806.3	980.9	1361.0	2244.3	4229.3	7534.1	8771.8	10035.2	13956.3	11201.0
62.5°	575.2	595.7	665.1	796.0	1135.0	1848.9	3248.3	3777.3	4129.1	6912.7	5518.3
65°	464.8	480.2	536.7	595.7	749.8	993.8	1047.7	1009.2	1004.0	1787.2	1266.0
67.5°	385.2	400.6	441.7	482.8	539.3	495.6	359.5	377.5	308.1	305.6	249.1
70°	282.5	300.4	341.5	385.2	323.6	133.5	208.0	308.1	233.7	195.2	190.0
72.5°	213.1	226.0	264.5	251.7	95.0	51.4	138.7	223.4	179.8	143.8	141.2
75°	159.2	166.9	133.5	41.1	10.3	12.8	51.4	92.4	100.1	82.2	82.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	7.7	10.3	12.8	15.4
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°	2868.3	2868.3	2868.3	2868.3	2868.3	2868.3	2868.3	2868.3	2868.3	2868.3	2868.3
2.5°	2927.4	2819.5	2665.4	2537.0	2439.5	2344.5	2272.6	2200.7	2198.1	2162.1	2154.4
5°	3050.6	2855.5	2573.0	2370.1	2246.9	2172.4	2121.1	2095.4	2082.5	2069.7	2064.6
7.5°	3227.8	2947.9	2557.6	2341.9	2239.2	2190.4	2154.4	2139.0	2131.3	2121.1	2118.5
10°	3446.1	3081.4	2614.1	2395.8	2305.9	2259.7	2221.2	2198.1	2185.2	2167.3	2162.1
12.5°	3708.0	3245.8	2704.0	2485.7	2390.7	2329.0	2277.7	2244.3	2226.3	2203.2	2198.1
15°	3990.5	3423.0	2804.1	2567.9	2454.9	2375.3	2311.1	2259.7	2226.3	2198.1	2190.4
17.5°	4283.2	3602.7	2894.0	2624.4	2485.7	2390.7	2298.2	2228.9	2187.8	2151.9	2141.6
20°	4611.9	3787.6	2953.0	2634.6	2475.4	2349.6	2241.7	2154.4	2113.3	2064.6	2054.3
22.5°	4956.0	3959.6	2978.7	2611.5	2418.9	2272.6	2157.0	2067.1	2008.1	1956.7	1941.3
25°	5289.8	4113.7	2965.9	2547.3	2334.2	2164.7	2046.6	1954.1	1889.9	1838.6	1825.7
27.5°	5644.2	4242.1	2919.7	2452.3	2218.6	2046.6	1933.6	1854.0	1794.9	1738.4	1725.6
30°	6042.2	4360.2	2845.2	2336.8	2082.5	1925.9	1838.6	1784.7	1720.5	1661.4	1643.4
32.5°	6522.4	4465.5	2737.3	2198.1	1961.8	1820.6	1771.8	1730.7	1656.3	1594.6	1581.8
35°	7071.9	4552.8	2601.2	2054.3	1843.7	1753.8	1743.6	1689.7	1592.1	1520.2	1504.8
37.5°	7708.7	4637.6	2439.5	1913.1	1756.4	1723.0	1725.6	1633.2	1515.0	1427.7	1417.5
40°	8394.3	4722.3	2259.7	1789.8	1676.8	1705.1	1681.9	1551.0	1358.4	1273.7	1263.4
42.5°	9108.2	4814.7	2077.4	1674.2	1610.0	1635.7	1602.3	1386.6	1248.0	1204.3	1199.2
45°	9752.7	4925.2	1879.7	1558.7	1543.3	1535.6	1479.1	1255.7	1196.6	1165.8	1163.2
47.5°	10217.5	4907.2	1669.1	1448.3	1471.4	1445.7	1273.7	1194.1	1145.3	1104.2	1093.9
50°	10132.8	4593.9	1450.8	1325.0	1378.9	1355.8	1145.3	1122.2	1078.5	1034.8	1019.4
52.5°	9917.1	4167.6	1260.8	1194.1	1278.8	1224.9	1058.0	1034.8	996.3	939.8	921.9
55°	10032.6	3767.1	1111.9	1088.8	1176.1	1014.3	960.4	924.4	883.3	821.7	814.0
57.5°	9660.3	3073.7	893.6	909.0	1040.0	865.4	842.3	785.8	716.4	675.3	670.2
60°	6686.7	1651.1	559.8	577.8	752.4	726.7	755.0	703.6	618.9	580.3	572.6
62.5°	3071.2	662.5	305.6	292.7	395.5	493.0	647.1	642.0	536.7	475.1	469.9
65°	744.7	303.0	218.3	205.4	223.4	295.3	421.1	505.9	434.0	362.1	354.4
67.5°	241.4	246.5	200.3	187.5	197.7	220.8	251.7	279.9	277.3	254.2	249.1
70°	192.6	223.4	184.9	169.5	169.5	177.2	169.5	136.1	118.1	128.4	133.5
72.5°	143.8	169.5	146.4	131.0	125.8	123.3	105.3	77.0	53.9	48.8	46.2
75°	84.7	95.0	89.9	77.0	71.9	64.2	51.4	33.4	18.0	12.8	7.7
77.5°	15.4	18.0	20.5	15.4	12.8	10.3	7.7	2.6	0.0	0.0	0.0
80°	0.0	2.6	2.6	2.6	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)