

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: P631778

Luminaire Tested: GWS-SA2B-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631778
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-SA2B-735-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4043.1 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

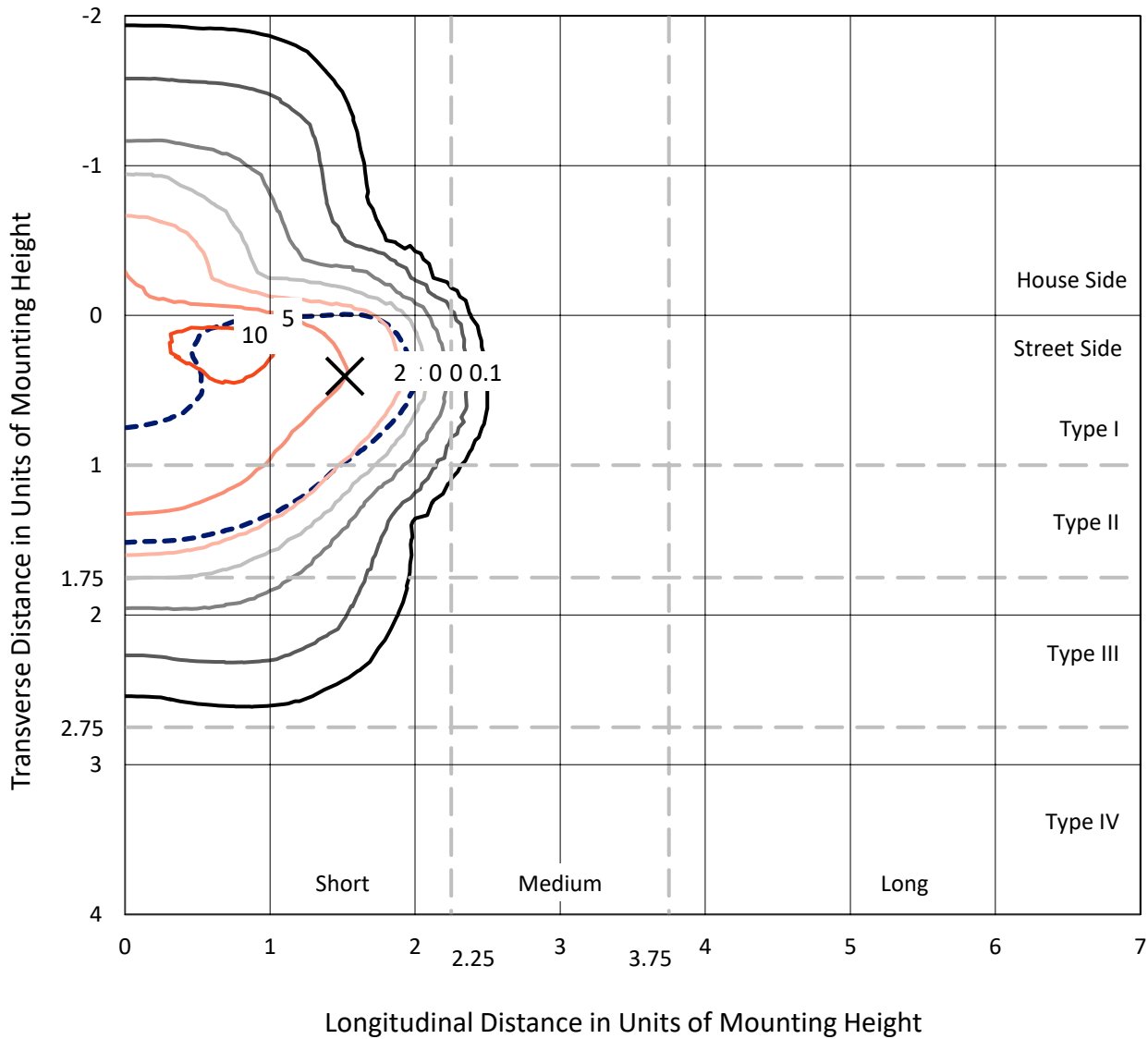
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

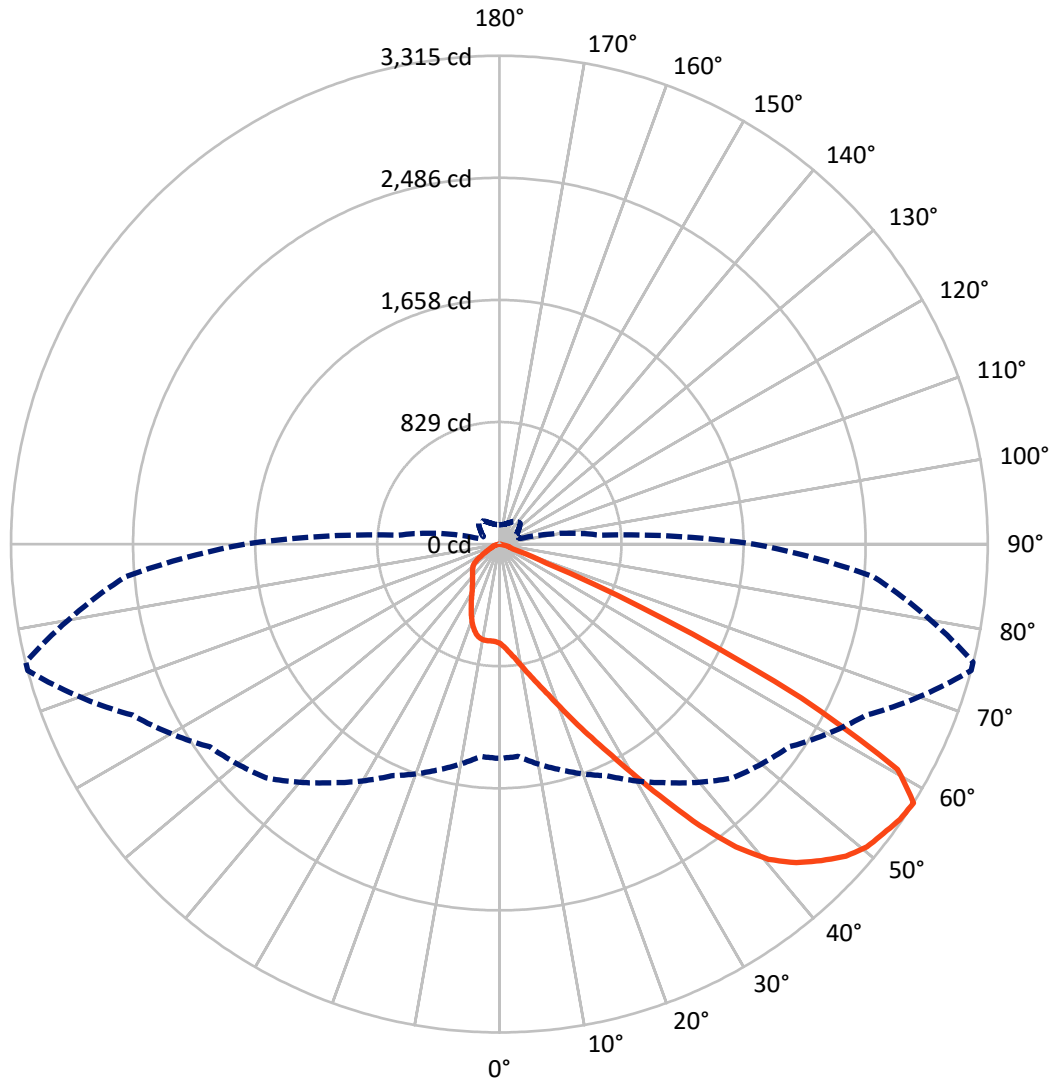
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 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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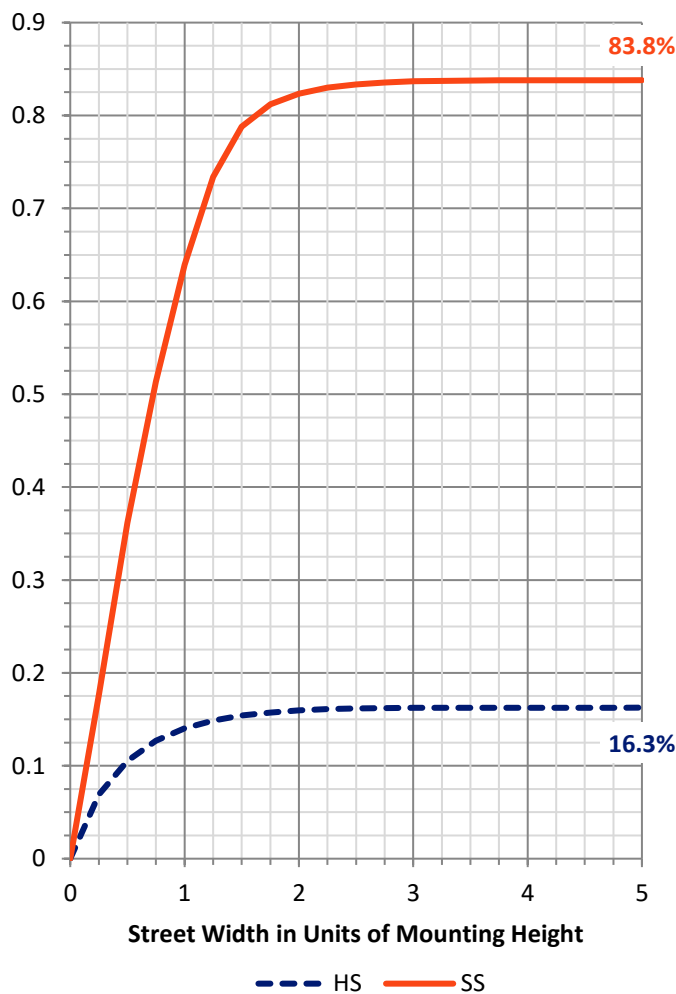
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	660.4	0.0	660.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	3382.7	0.0	3382.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	4043.1	0.0	4043.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	1.7
10°-20°	222.9	5.5
20°-30°	408.2	10.1
30°-40°	677.2	16.8
40°-50°	1034.3	25.6
50°-60°	1162.2	28.7
60°-70°	428.7	10.6
70°-80°	41.0	1.0
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°	4043.1	100.0
0°-180°	4043.1	100.0

Coefficient of Utilization



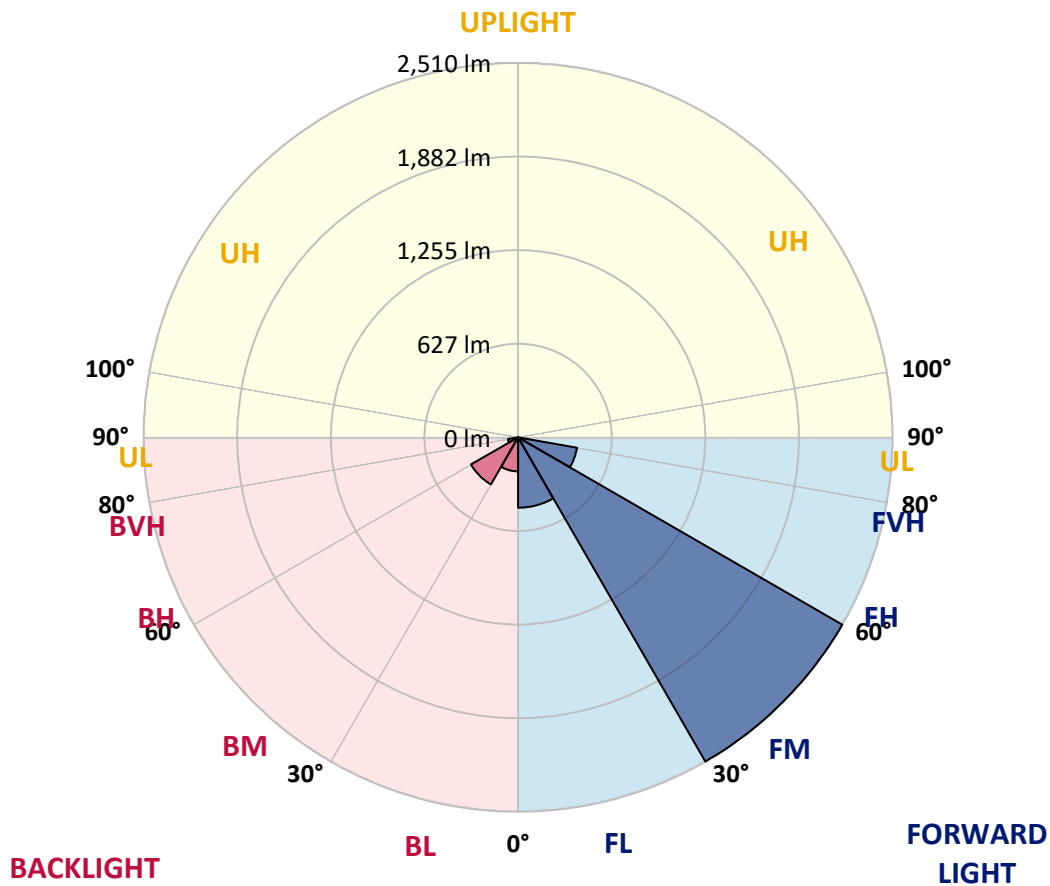
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.8	11.7			
FM (30°-60°)	2509.8	62.1			
FH (60°-80°)	401.1	9.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	227.9	5.6	B1/500		
BM (30°-60°)	363.9	9.0	B1/1000		
BH (60°-80°)	68.6	1.7	B0/110		G0/110
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: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3
2.5°	753.4	761.2	758.7	753.9	750.9	740.7	734.3	715.8	702.6	701.2	689.0
5°	848.5	847.1	845.1	839.3	834.4	818.3	799.2	768.0	740.2	736.8	710.9
7.5°	900.7	901.7	902.7	901.7	898.3	886.1	865.1	828.5	786.1	783.1	742.2
10°	922.2	924.2	929.0	938.3	946.6	945.6	933.4	895.9	843.6	838.8	783.6
12.5°	932.5	934.9	942.7	960.3	982.7	1000.3	1002.2	968.6	911.0	903.2	832.9
15°	946.6	949.0	958.8	981.7	1014.4	1049.1	1071.5	1050.0	985.6	977.3	887.1
17.5°	952.9	956.4	970.5	1000.8	1043.2	1096.4	1147.1	1145.2	1074.0	1067.6	950.0
20°	965.1	967.6	980.3	1013.0	1064.2	1140.8	1226.2	1256.9	1181.8	1172.5	1026.1
22.5°	1003.7	1004.7	1010.5	1031.0	1078.8	1173.0	1306.7	1387.2	1309.1	1296.9	1111.5
25°	1066.6	1066.1	1068.6	1072.0	1107.1	1205.7	1384.3	1534.1	1455.0	1441.9	1208.1
27.5°	1146.7	1146.7	1152.5	1142.8	1156.9	1246.2	1460.9	1702.9	1624.8	1606.3	1314.0
30°	1240.8	1240.3	1254.0	1238.4	1242.8	1310.1	1543.4	1886.9	1829.8	1806.8	1436.0
32.5°	1368.7	1365.7	1381.4	1359.9	1345.3	1406.7	1643.9	2079.1	2075.2	2040.1	1589.2
35°	1530.2	1525.3	1530.2	1509.2	1482.8	1541.9	1775.6	2270.9	2347.5	2310.4	1771.7
37.5°	1690.7	1706.3	1711.7	1675.6	1654.1	1713.2	1934.2	2442.6	2607.6	2569.0	1961.5
40°	1880.0	1875.2	1893.7	1853.2	1839.5	1904.9	2089.4	2570.5	2813.5	2776.9	2130.3
42.5°	2019.6	2028.4	2051.3	2028.9	2018.1	2079.6	2219.6	2645.1	2956.4	2920.3	2250.9
45°	2186.9	2193.3	2202.1	2183.5	2172.3	2232.8	2313.8	2677.8	3065.2	3026.2	2331.9
47.5°	2368.0	2372.9	2372.9	2334.8	2298.7	2323.6	2376.8	2696.4	3165.3	3127.7	2391.9
50°	2497.8	2500.2	2521.7	2494.8	2416.3	2377.7	2405.5	2714.4	3231.6	3196.5	2411.4
52.5°	2382.6	2379.7	2450.4	2506.1	2527.0	2450.4	2455.3	2740.8	3263.8	3233.6	2427.0
55°	2006.4	2001.5	2101.1	2236.2	2421.2	2519.2	2515.3	2756.4	3299.4	3280.9	2483.6
57.5°	1454.5	1446.3	1584.8	1735.1	1977.6	2243.5	2399.7	2747.6	3315.1	3313.6	2549.5
60°	874.4	867.6	998.3	1156.4	1343.8	1611.2	1870.3	2461.2	3106.2	3109.2	2378.2
62.5°	538.2	544.5	662.6	743.1	812.9	893.4	1043.2	1655.6	2301.1	2320.2	1671.2
65°	362.1	366.9	476.2	577.7	577.7	472.3	405.5	791.4	1227.7	1195.5	790.5
67.5°	243.0	248.4	334.7	453.3	470.4	329.4	164.4	236.2	342.0	331.8	195.7
70°	143.0	148.8	223.0	310.8	342.5	229.3	109.8	100.0	97.1	94.2	76.1
72.5°	63.9	66.4	113.7	158.1	144.4	96.6	77.6	80.0	75.6	74.2	62.0
75°	19.5	20.5	29.3	34.2	34.6	34.6	46.8	62.9	59.5	60.0	47.8
77.5°	4.9	4.9	7.8	7.3	3.9	3.4	8.8	14.2	14.6	13.2	9.8
80°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
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°	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3	674.3
2.5°	683.6	670.9	662.6	650.9	642.6	633.8	626.0	619.7	616.3	615.3	615.8
5°	699.2	679.2	659.7	637.2	621.6	607.0	595.3	586.0	581.6	580.2	580.2
7.5°	723.1	695.3	660.7	625.5	599.2	576.3	562.6	552.3	548.4	547.5	544.5
10°	754.4	716.3	659.2	604.6	567.5	543.6	533.8	530.9	532.3	532.8	532.3
12.5°	791.9	738.3	649.9	573.8	533.8	519.2	520.1	528.0	536.7	541.1	542.1
15°	831.9	758.3	629.0	537.2	505.0	504.5	518.7	536.7	553.8	561.1	563.1
17.5°	876.8	774.4	596.8	498.2	480.1	494.3	519.7	547.5	570.4	582.6	585.0
20°	926.1	787.5	555.8	461.6	458.2	483.5	518.7	552.8	581.1	594.8	597.2
22.5°	977.3	796.8	508.4	427.9	438.2	471.3	509.4	542.6	569.4	585.0	587.0
25°	1035.9	797.8	460.1	399.6	419.6	454.8	487.0	514.3	536.7	550.4	551.9
27.5°	1087.1	786.1	417.2	376.7	402.6	434.3	455.7	470.9	486.5	494.3	494.8
30°	1146.2	765.6	376.7	358.1	385.0	408.9	419.6	423.0	424.5	426.0	424.0
32.5°	1216.4	740.7	346.4	340.1	365.0	381.1	384.0	377.2	368.9	357.2	354.2
35°	1302.8	718.2	321.6	322.5	343.0	352.8	350.3	335.7	319.6	305.5	303.0
37.5°	1396.5	699.2	302.5	305.5	319.1	325.9	318.6	302.5	295.2	283.0	283.5
40°	1479.4	683.6	285.4	288.4	294.7	301.1	289.3	278.6	292.3	291.3	292.3
42.5°	1538.5	670.4	270.8	269.3	273.7	278.1	269.3	264.0	286.9	280.6	284.0
45°	1573.1	658.2	258.6	249.8	256.7	264.5	258.6	251.8	259.6	230.3	227.9
47.5°	1596.5	651.4	247.9	230.8	243.0	256.7	244.5	227.9	216.6	191.3	189.3
50°	1599.0	648.0	235.2	211.3	226.9	241.5	227.4	204.4	188.3	177.1	175.7
52.5°	1611.7	654.8	217.6	186.4	203.5	226.9	217.1	194.2	172.2	162.5	160.5
55°	1668.3	683.6	188.3	152.2	177.1	215.7	208.8	173.2	152.2	146.4	144.9
57.5°	1726.8	689.5	148.3	120.5	154.2	199.6	190.8	159.6	139.1	132.2	130.8
60°	1579.0	568.0	111.3	99.5	136.1	184.4	176.6	151.3	127.4	119.1	117.6
62.5°	1037.4	306.9	88.3	84.4	114.7	156.1	161.0	136.6	113.7	104.9	104.4
65°	478.2	142.5	67.8	66.8	89.8	124.4	138.6	119.5	96.1	88.3	88.3
67.5°	130.3	70.8	53.2	49.3	61.0	83.4	101.0	89.3	68.3	59.0	58.6
70°	64.9	57.1	47.8	42.5	43.9	51.7	59.5	49.8	34.6	28.3	27.8
72.5°	53.2	46.8	40.5	36.1	33.2	31.7	30.7	24.9	16.1	12.2	11.7
75°	39.5	33.7	28.8	23.4	20.0	18.5	16.6	12.2	6.8	3.9	3.4
77.5°	8.8	8.3	7.8	5.9	5.4	4.4	3.4	2.4	1.0	0.0	0.0
80°	0.5	0.5	0.5	0.5	0.5	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)