

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: P632067

Luminaire Tested: GWS-SA2B-830-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-830-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4291.6 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

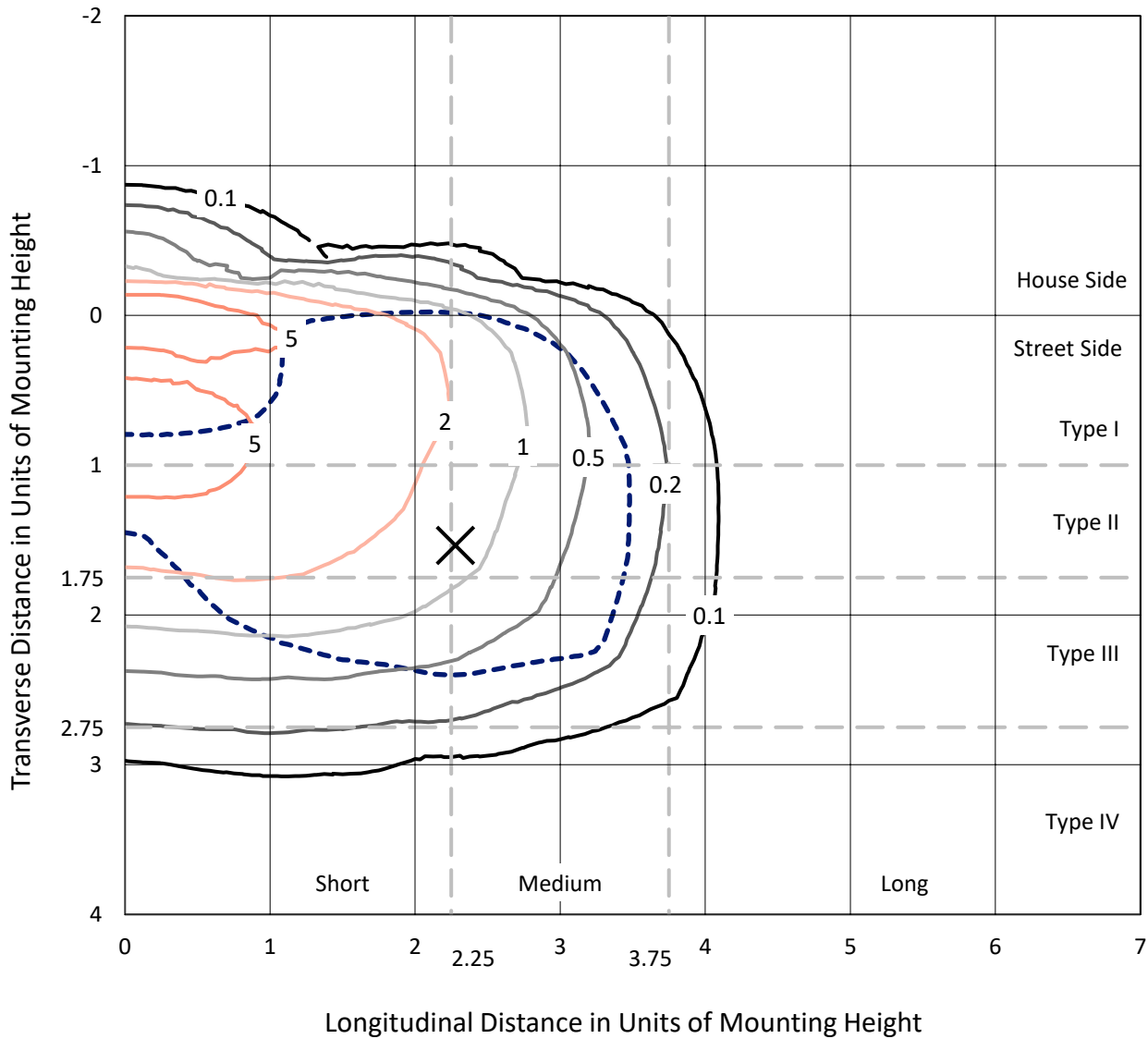
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

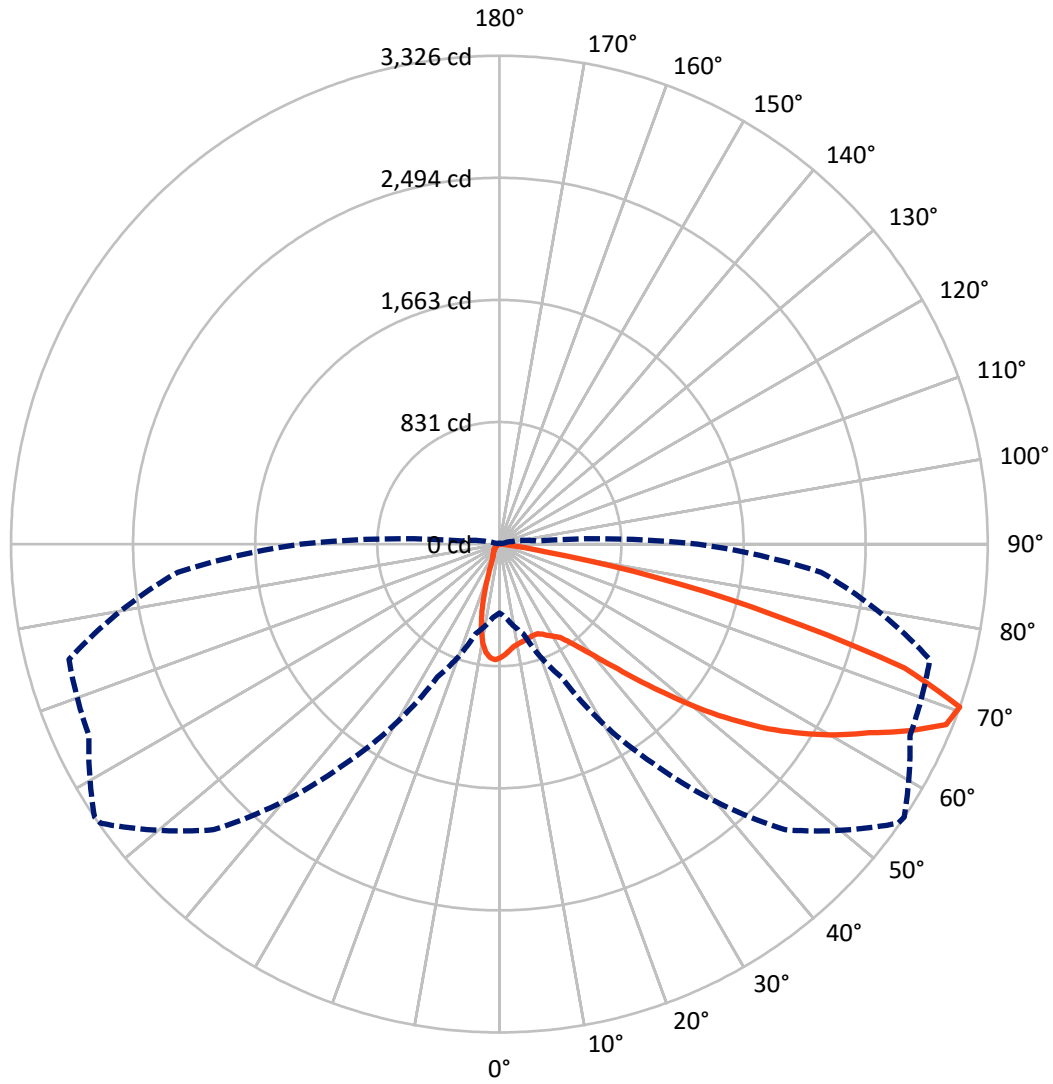
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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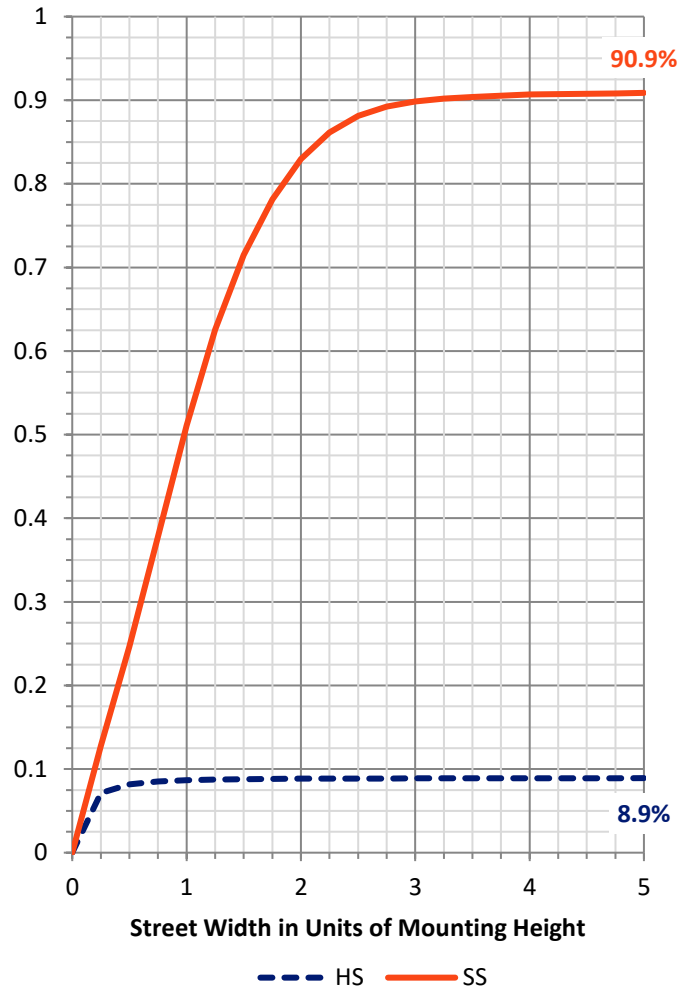
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	385.5	0.0	385.5
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	3906.1	0.0	3906.1
	% Fixture	91.0	0.0	91.0
Total	Lumens	4291.6	0.0	4291.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	1.5
10°-20°	149.4	3.5
20°-30°	236.7	5.5
30°-40°	408.2	9.5
40°-50°	689.3	16.1
50°-60°	1012.8	23.6
60°-70°	1200.7	28.0
70°-80°	512.0	11.9
80°-90°	16.1	0.4
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°	4291.6	100.0
0°-180°	4291.6	100.0

Coefficient of Utilization



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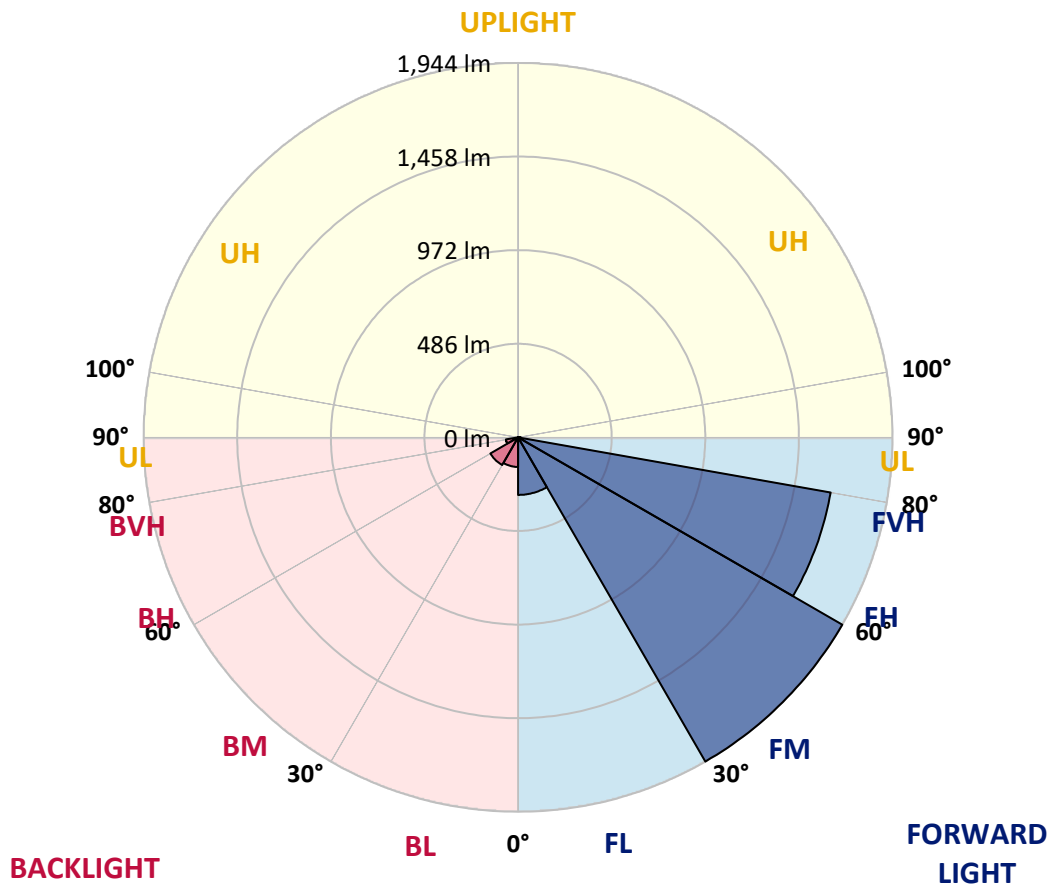
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	299.0	7.0			
FM (30°-60°)	1944.2	45.3			
FH (60°-80°)	1648.4	38.4			G1/1800
FVH (80°-90°)	14.4	0.3			G1/100
BL (0°-30°)	153.5	3.6	B1/500		
BM (30°-60°)	166.0	3.9	B0/220		
BH (60°-80°)	64.3	1.5	B0/110		G0/110
BVH (80°-90°)	1.6	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8
2.5°	720.4	719.2	720.0	725.9	736.9	742.0	750.6	752.2	759.3	768.3	771.9
5°	673.6	669.7	671.6	679.9	692.5	706.6	722.7	727.1	744.7	764.8	779.7
7.5°	630.8	626.4	631.2	644.1	661.8	677.1	701.1	703.9	732.2	767.5	794.6
10°	563.6	564.7	574.2	597.0	624.1	655.9	688.1	692.1	727.1	776.6	818.6
12.5°	512.1	509.3	519.5	545.5	583.6	630.0	678.3	683.4	727.4	790.3	849.3
15°	488.1	487.3	491.6	510.5	547.5	602.1	669.3	676.0	732.6	802.9	878.4
17.5°	488.9	487.7	487.3	498.3	525.8	581.2	659.5	668.1	736.9	816.7	909.0
20°	523.1	517.6	507.8	502.6	519.2	567.9	652.8	662.6	743.2	831.2	941.6
22.5°	594.6	596.6	570.2	542.7	534.9	569.5	652.0	663.4	756.9	854.0	981.7
25°	737.7	734.5	685.8	624.1	581.2	587.5	665.7	679.5	784.0	886.6	1019.4
27.5°	916.9	919.6	852.8	754.6	665.0	624.9	690.9	704.7	815.5	907.0	1044.6
30°	1112.2	1109.4	1037.9	929.1	783.6	687.0	716.0	728.2	831.2	918.0	1070.5
32.5°	1296.9	1290.6	1219.9	1105.9	934.9	784.8	750.6	757.7	852.0	942.0	1105.5
35°	1454.5	1454.1	1392.4	1271.0	1090.6	907.4	810.0	815.9	890.9	980.1	1157.0
37.5°	1617.2	1611.7	1542.5	1431.7	1250.5	1041.8	900.8	898.4	952.2	1036.3	1220.3
40°	1750.8	1747.3	1694.2	1587.7	1416.8	1190.4	1010.8	1003.7	1024.9	1114.2	1308.3
42.5°	1849.9	1850.2	1833.7	1768.9	1592.8	1362.1	1149.1	1138.1	1137.7	1231.7	1424.6
45°	1924.9	1930.0	1954.8	1945.0	1800.7	1562.2	1326.4	1315.0	1295.7	1384.1	1557.9
47.5°	1959.9	1966.6	2041.2	2080.5	1982.7	1760.6	1537.4	1513.4	1475.7	1586.9	1706.8
50°	1956.4	1968.1	2072.3	2191.8	2147.7	1961.9	1767.3	1755.9	1694.2	1801.5	1854.2
52.5°	1876.2	1901.3	2074.3	2259.4	2274.7	2147.4	2005.1	1983.9	1954.0	2025.5	1992.5
55°	1658.5	1689.1	1991.3	2281.0	2373.7	2309.3	2237.7	2220.5	2170.9	2237.0	2113.2
57.5°	1540.2	1566.5	1816.8	2270.4	2457.8	2459.0	2444.9	2430.7	2389.8	2446.0	2254.6
60°	1469.0	1495.4	1723.7	2231.5	2534.1	2617.0	2639.4	2637.8	2578.9	2683.8	2420.5
62.5°	1364.9	1401.0	1626.6	2130.5	2588.3	2772.6	2840.2	2829.6	2764.0	2931.4	2584.8
65°	1154.6	1186.1	1427.8	1963.8	2556.5	2901.5	3057.9	3063.4	2987.6	3164.4	2714.5
67.5°	809.6	832.8	1072.9	1614.1	2340.3	2944.0	3280.8	3280.4	3151.1	3283.9	2657.1
70°	469.2	501.1	633.9	997.8	1820.8	2751.0	3314.2	3325.6	3084.7	3034.4	2198.8
72.5°	181.6	207.9	359.2	530.2	949.5	2107.3	2850.8	2884.2	2581.6	2340.7	1530.3
75°	54.2	60.5	169.0	282.2	381.2	1017.9	1930.0	1939.5	1770.9	1460.0	784.4
77.5°	40.5	44.8	73.9	142.7	133.6	308.5	998.6	1090.6	940.1	521.5	216.2
80°	27.5	32.6	52.7	69.6	49.5	82.1	280.6	308.1	286.9	117.1	54.2
82.5°	12.2	15.7	37.3	35.0	18.1	23.6	86.5	92.0	59.3	35.4	18.9
85°	1.2	1.6	14.1	15.3	6.7	5.5	18.1	18.1	13.0	12.2	7.9
87.5°	0.0	0.0	0.4	0.8	0.8	1.2	1.6	2.0	2.4	3.1	3.9
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°	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8
2.5°	780.9	776.2	782.1	786.8	788.0	779.3	774.2	766.7	765.2	765.6	763.6
5°	791.5	789.1	793.5	788.4	775.0	749.8	728.2	704.3	691.3	683.8	683.0
7.5°	811.2	810.0	805.3	782.1	740.4	684.6	630.8	578.1	545.5	533.7	531.7
10°	840.2	837.9	818.6	763.6	674.8	567.5	477.1	401.6	355.7	342.3	325.8
12.5°	873.6	868.9	826.9	723.9	575.7	427.2	314.4	229.9	190.2	178.4	178.4
15°	905.9	895.6	822.2	658.3	453.9	277.9	175.7	132.8	120.7	117.5	117.5
17.5°	938.9	919.2	803.7	568.7	313.6	164.3	117.1	108.9	107.3	107.7	108.1
20°	969.9	939.3	771.1	461.0	200.0	114.8	104.9	103.0	102.2	103.0	102.6
22.5°	1003.7	957.7	721.5	343.5	130.1	103.4	99.8	98.3	97.5	98.6	98.6
25°	1037.1	971.1	655.9	231.1	103.4	96.3	94.3	92.7	92.0	92.4	92.4
27.5°	1054.4	966.0	569.9	147.4	92.7	89.2	87.2	85.3	84.1	83.7	84.1
30°	1066.2	950.3	464.5	104.9	84.1	79.8	77.8	76.2	73.1	71.1	71.9
32.5°	1084.7	934.6	350.2	88.0	77.0	70.3	67.2	63.3	59.0	57.0	57.0
35°	1106.7	912.9	245.6	79.4	69.6	62.5	56.6	49.9	44.8	43.2	43.2
37.5°	1135.8	892.5	163.5	73.5	63.3	55.8	47.6	39.7	34.2	33.4	33.0
40°	1179.4	875.2	115.1	69.2	57.8	48.7	38.9	30.7	26.7	25.5	25.5
42.5°	1236.0	857.5	91.2	64.8	53.1	42.1	31.0	24.4	21.2	20.4	20.0
45°	1305.9	836.7	79.4	60.9	48.3	35.0	24.8	20.4	18.1	17.3	17.3
47.5°	1381.8	808.4	73.9	55.8	42.8	28.3	20.8	17.7	16.5	16.1	15.7
50°	1456.5	770.3	69.2	51.1	36.5	23.2	18.1	16.1	15.3	14.9	14.9
52.5°	1521.7	725.9	63.3	45.6	29.9	20.0	16.1	14.9	14.1	13.4	13.0
55°	1577.5	677.5	55.8	39.3	24.4	17.7	14.9	13.8	13.0	12.2	11.8
57.5°	1649.4	650.0	44.8	31.8	20.0	15.7	13.8	12.6	11.8	10.6	10.6
60°	1729.2	630.0	33.4	25.2	17.3	14.5	12.6	11.4	10.6	9.4	9.4
62.5°	1793.3	600.1	26.3	20.4	14.9	13.0	11.4	10.2	9.4	8.3	8.3
65°	1817.6	538.4	21.6	16.1	12.2	11.4	10.2	9.4	8.3	7.1	7.1
67.5°	1707.6	415.0	18.1	13.0	10.2	9.8	9.0	8.6	7.1	6.3	5.9
70°	1352.3	253.1	14.9	10.6	8.6	8.3	8.3	7.5	6.3	5.9	5.5
72.5°	926.7	130.5	12.2	8.6	7.5	7.5	7.1	6.7	5.9	5.5	5.5
75°	481.4	43.6	9.4	6.7	5.9	6.3	6.3	5.9	5.5	5.5	5.1
77.5°	137.9	19.7	7.1	5.1	4.7	4.7	5.1	5.1	5.1	4.7	4.7
80°	35.8	11.4	5.1	3.9	3.9	3.9	3.9	4.3	4.7	4.3	4.3
82.5°	14.5	6.3	3.5	3.1	3.1	3.1	3.1	3.5	3.9	3.9	3.9
85°	9.0	3.1	2.8	2.8	2.8	2.4	2.4	2.8	2.8	3.1	3.1
87.5°	5.5	2.4	2.4	2.4	2.4	2.0	2.0	2.0	2.0	2.0	2.0
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)