

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: P632055

Luminaire Tested: GWS-SA2B-830-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-830-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4106.5 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

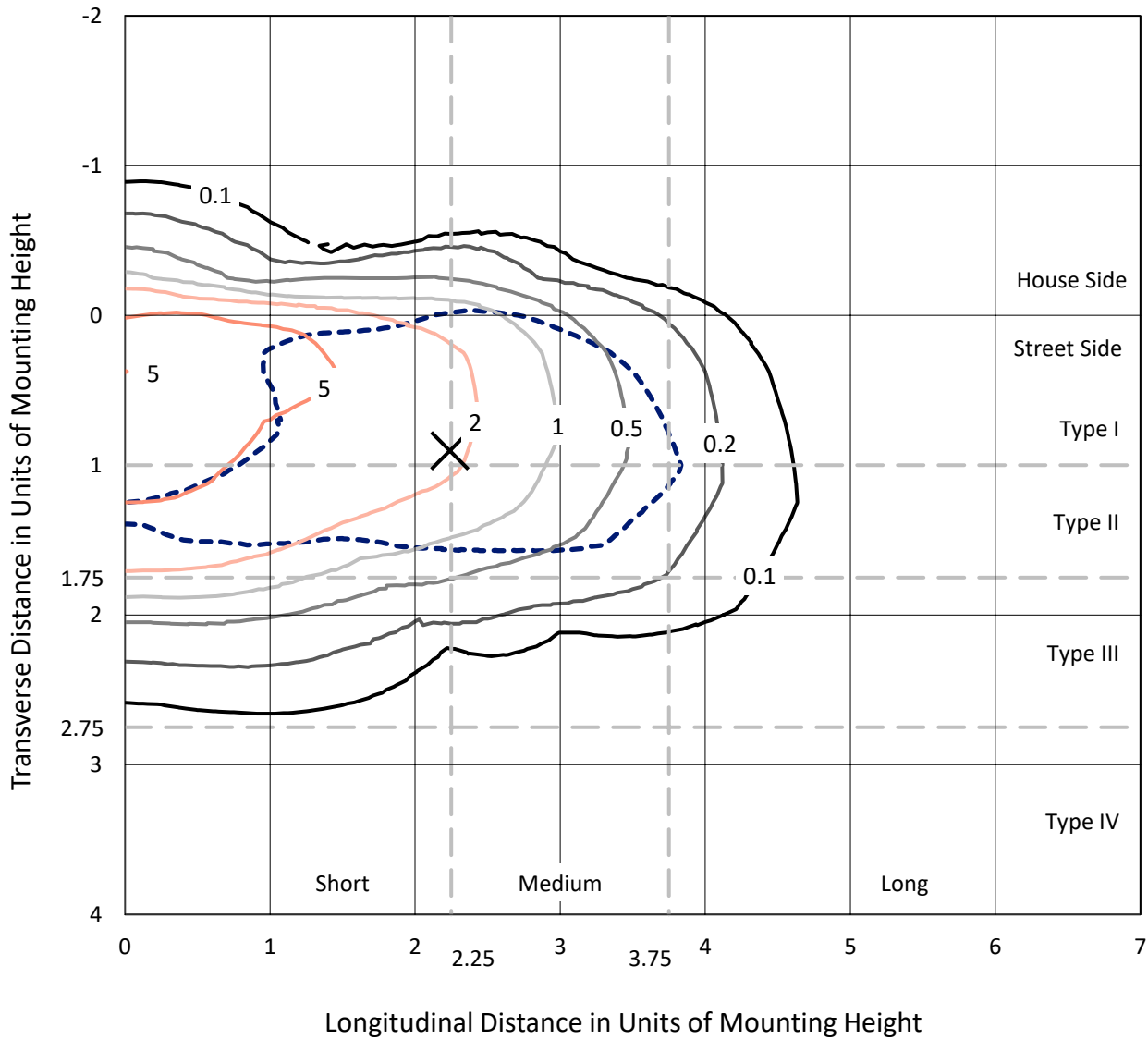
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

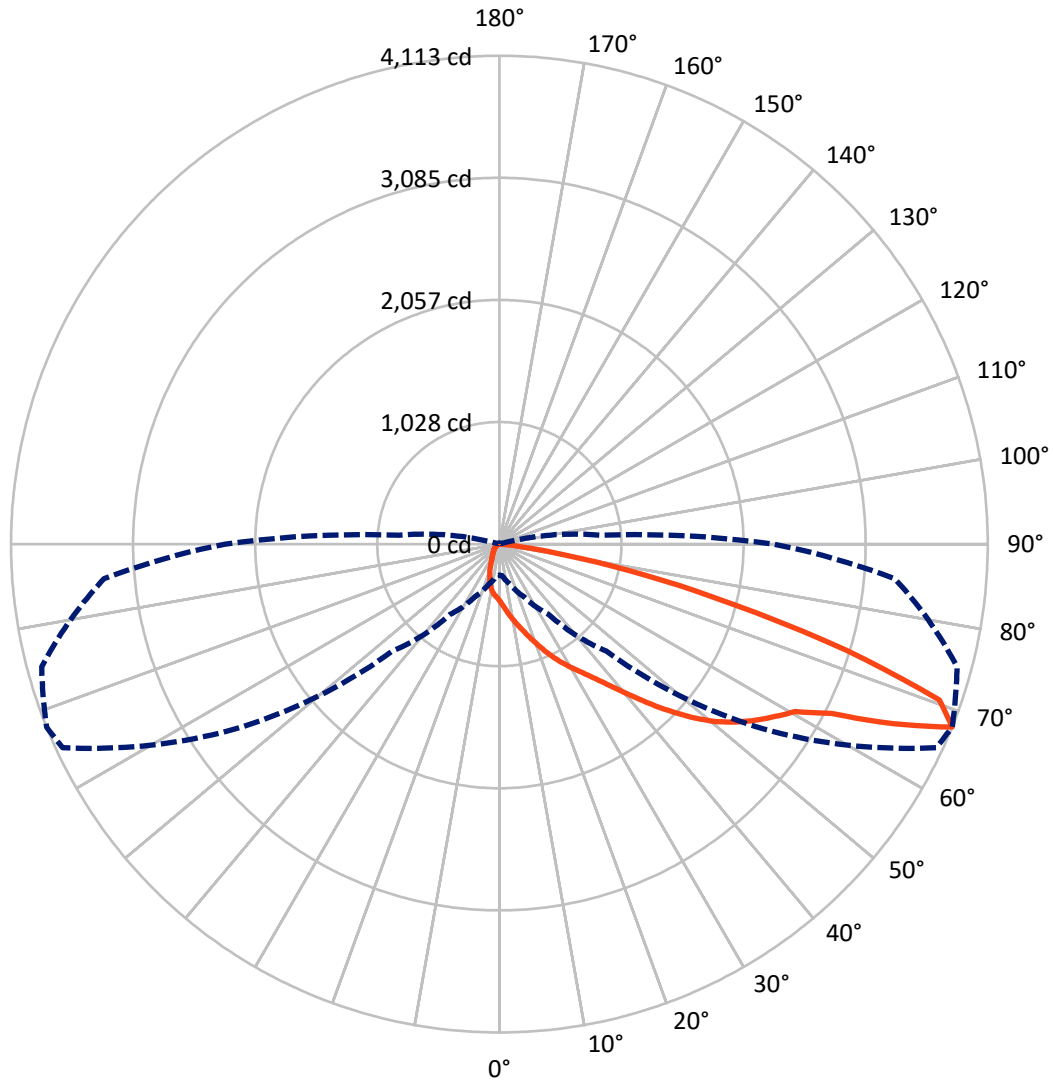
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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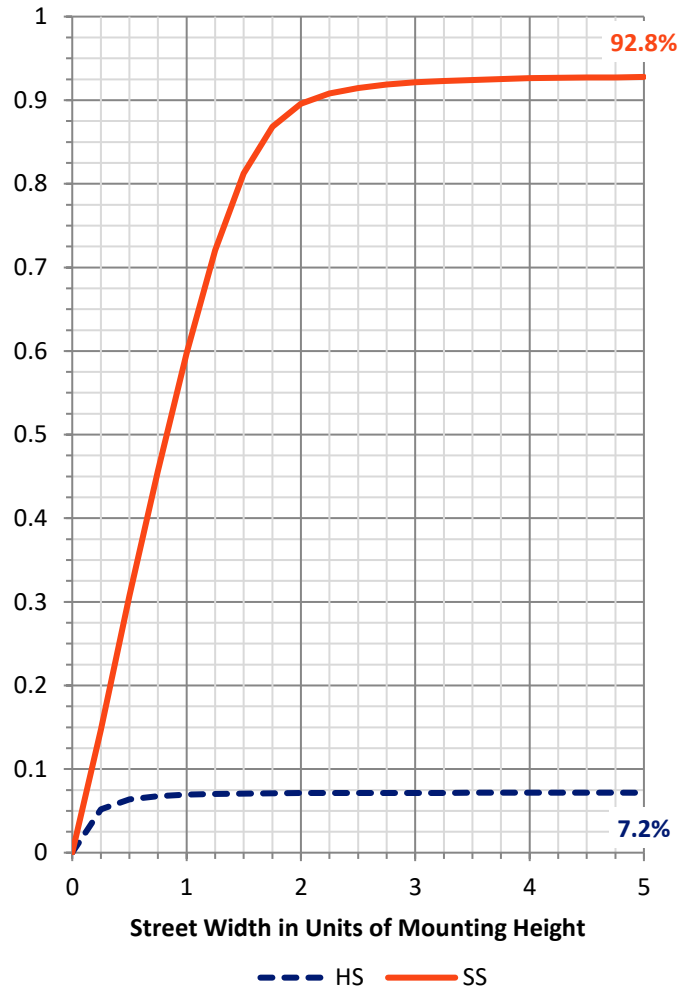
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	296.6	0.0	296.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	3810.0	0.0	3810.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	4106.5	0.0	4106.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	1.1
10°-20°	133.8	3.3
20°-30°	230.0	5.6
30°-40°	399.9	9.7
40°-50°	697.8	17.0
50°-60°	1052.5	25.6
60°-70°	1055.4	25.7
70°-80°	465.6	11.3
80°-90°	24.9	0.6
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°	4106.5	100.0
0°-180°	4106.5	100.0

Coefficient of Utilization



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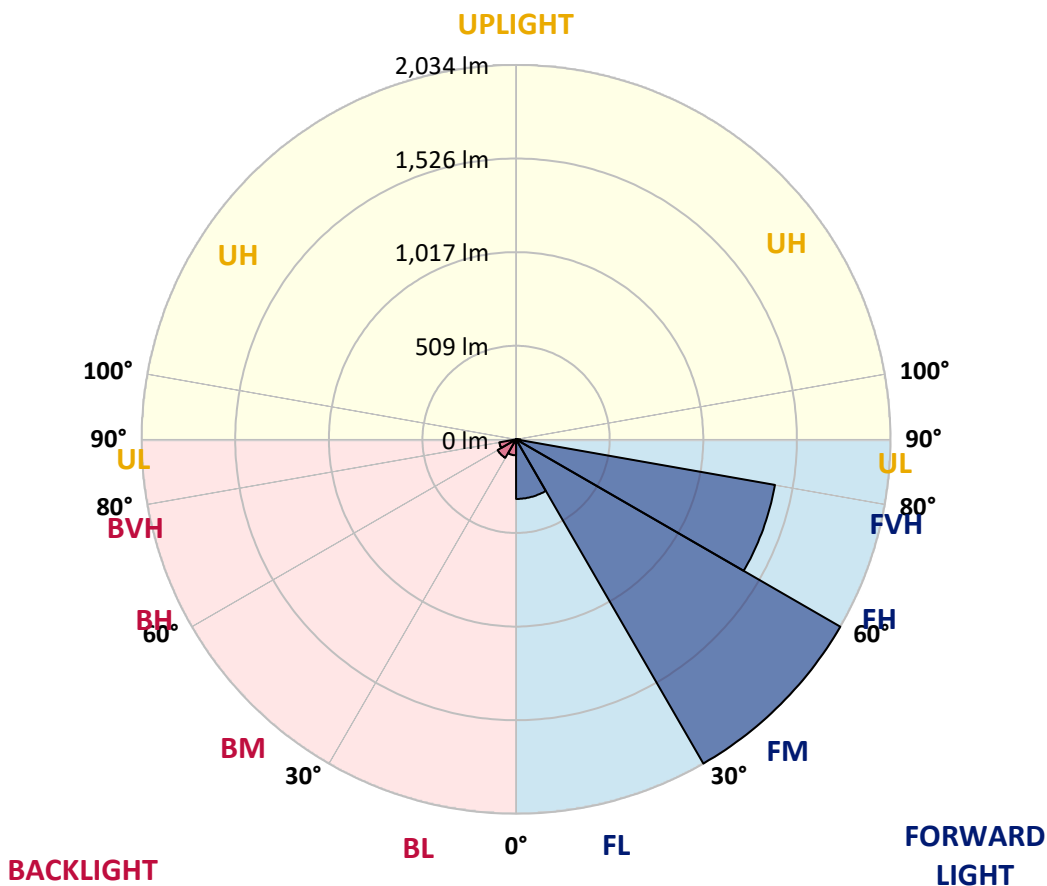
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.7	7.9			
FM (30°-60°)	2034.4	49.5			
FH (60°-80°)	1428.4	34.8			G1/1800
FVH (80°-90°)	23.5	0.6			G1/100
BL (0°-30°)	86.8	2.1	B0/110		
BM (30°-60°)	115.8	2.8	B0/220		
BH (60°-80°)	92.5	2.3	B0/110		G0/110
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9
2.5°	556.5	560.0	556.5	557.3	547.1	542.3	532.1	518.0	514.4	505.4	491.6
5°	624.5	627.6	624.1	623.3	611.5	602.9	586.0	561.6	554.5	536.8	509.7
7.5°	661.4	663.4	664.6	666.5	662.2	655.1	639.8	609.5	602.1	573.4	535.3
10°	665.4	666.9	672.8	684.6	693.3	697.6	688.9	661.0	649.2	621.3	566.7
12.5°	654.4	656.7	666.1	685.8	709.8	731.8	737.3	712.9	702.3	666.5	603.7
15°	639.8	641.8	654.7	681.5	717.6	758.1	780.9	770.3	758.5	721.2	644.5
17.5°	617.4	620.2	638.2	674.4	721.2	778.9	828.1	831.6	823.3	782.9	689.7
20°	604.8	606.8	622.9	660.2	718.8	794.3	872.1	905.5	896.4	854.0	741.6
22.5°	615.4	617.0	627.6	656.7	710.9	802.9	912.9	979.4	974.3	930.2	796.2
25°	671.2	676.4	670.1	675.2	714.5	807.6	946.0	1053.2	1054.4	1010.0	852.8
27.5°	784.4	777.8	762.8	737.3	742.0	820.2	974.3	1122.8	1133.0	1087.8	903.1
30°	899.6	895.7	886.6	846.9	813.9	848.1	998.2	1193.9	1210.1	1164.5	947.9
32.5°	1028.9	1032.8	1016.7	969.1	912.9	904.7	1023.0	1261.5	1291.8	1251.3	1000.6
35°	1183.3	1184.5	1152.7	1100.0	1036.4	998.2	1067.4	1336.2	1392.0	1362.1	1070.9
37.5°	1333.9	1340.9	1323.6	1240.7	1184.1	1114.6	1140.9	1432.1	1510.7	1498.9	1159.4
40°	1467.1	1478.1	1472.6	1392.4	1318.1	1259.6	1254.9	1544.5	1654.2	1667.5	1276.1
42.5°	1573.2	1580.3	1584.6	1527.6	1462.0	1429.0	1395.6	1675.0	1823.5	1878.2	1419.1
45°	1685.2	1687.6	1696.6	1658.1	1600.7	1603.5	1561.8	1833.4	2002.0	2111.6	1583.4
47.5°	1827.9	1835.7	1831.4	1790.9	1739.0	1770.1	1733.5	1996.5	2178.0	2360.8	1751.6
50°	2001.6	2009.8	2005.9	1958.7	1901.0	1913.9	1891.1	2154.8	2347.8	2595.8	1891.5
52.5°	2091.2	2097.9	2146.6	2167.8	2137.5	2055.0	2025.5	2328.9	2491.2	2789.1	2020.0
55°	2047.9	2052.7	2158.8	2248.4	2359.2	2276.7	2160.7	2463.3	2617.8	2940.1	2115.5
57.5°	1868.7	1894.3	2038.5	2190.2	2423.3	2495.6	2380.0	2609.5	2739.6	3045.0	2209.5
60°	1501.3	1500.1	1706.8	1979.2	2298.3	2555.7	2689.7	2807.2	2861.9	3125.6	2335.2
62.5°	829.6	837.1	1112.2	1471.0	1950.9	2400.1	2922.0	3148.7	3140.5	3266.3	2532.1
65°	413.0	428.0	577.3	842.6	1298.1	1983.5	2962.1	3669.9	3646.3	3597.6	2938.9
67.5°	262.1	268.0	350.6	489.7	721.6	1274.9	2712.5	4058.5	4113.2	3990.6	3342.5
70°	169.8	179.6	243.7	334.8	435.4	657.1	1987.0	3806.6	3932.0	3947.3	3091.0
72.5°	92.4	99.4	155.6	238.9	314.4	328.6	1116.1	2856.7	3058.4	3348.4	2418.2
75°	52.7	57.8	85.3	162.3	230.7	200.0	494.8	1912.4	2040.9	2393.0	1732.8
77.5°	31.8	36.2	47.9	79.0	144.6	133.6	187.1	1164.1	1245.8	1427.8	909.4
80°	14.5	17.3	30.3	43.6	79.0	63.3	71.5	542.7	560.4	586.0	301.0
82.5°	6.7	7.9	13.8	25.9	44.8	36.5	27.5	125.4	176.5	167.0	76.6
85°	0.8	0.8	5.1	10.6	12.6	9.4	11.4	28.3	35.8	50.3	22.0
87.5°	0.0	0.0	0.4	0.4	0.8	1.2	2.4	3.5	5.1	8.3	5.5
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°	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9
2.5°	485.4	474.4	464.5	450.0	440.2	429.2	421.7	412.7	409.1	406.4	402.4
5°	496.4	478.7	454.7	428.0	406.0	385.1	365.9	353.3	342.3	340.7	335.2
7.5°	514.4	488.1	447.6	404.0	366.7	332.1	305.0	283.0	272.0	268.4	262.1
10°	538.4	502.3	437.0	370.2	316.4	275.1	244.4	219.7	202.4	196.1	191.4
12.5°	565.1	515.2	420.1	328.6	267.2	220.1	181.2	154.8	143.8	139.9	136.4
15°	595.8	527.4	393.4	286.9	219.3	161.9	134.4	123.0	118.3	117.1	115.9
17.5°	625.3	535.3	361.6	243.7	168.6	125.8	112.8	108.5	107.3	106.1	105.3
20°	658.7	540.8	324.2	202.8	130.9	106.5	100.2	97.1	94.7	92.4	92.0
22.5°	692.9	540.8	283.7	162.7	109.6	95.5	88.4	82.5	78.2	75.8	75.1
25°	725.5	533.3	243.7	130.1	96.7	84.9	75.8	69.2	63.3	60.5	59.7
27.5°	748.7	514.0	208.7	110.0	87.6	75.5	64.5	57.0	52.3	49.5	49.1
30°	763.2	485.4	176.5	98.3	79.8	65.6	54.6	48.3	44.8	42.8	42.1
32.5°	774.2	450.0	147.8	90.0	72.3	57.0	47.6	42.4	39.3	37.7	37.3
35°	796.2	416.6	126.5	82.5	64.5	49.9	41.7	37.7	35.4	33.4	33.0
37.5°	826.9	388.7	109.6	75.8	57.0	44.4	37.7	34.2	32.2	30.3	29.9
40°	872.1	371.0	97.1	69.2	50.3	40.1	34.6	31.4	28.7	26.7	26.3
42.5°	941.6	362.7	88.8	62.5	44.4	36.2	31.8	27.9	25.2	23.2	22.8
45°	1024.6	367.1	81.7	55.8	40.5	33.4	28.3	24.4	21.6	19.7	19.3
47.5°	1113.4	382.4	75.8	49.5	36.5	30.7	25.2	20.8	18.5	16.5	16.1
50°	1206.1	407.5	70.7	43.6	33.4	27.5	21.6	18.1	15.7	14.1	13.8
52.5°	1286.7	441.7	65.6	39.3	30.7	24.4	18.9	15.7	13.4	11.8	11.4
55°	1363.7	474.0	61.7	35.4	27.5	21.2	16.5	13.4	11.4	9.8	9.4
57.5°	1447.4	508.2	57.0	31.8	24.8	18.9	14.5	11.4	9.8	8.3	7.9
60°	1569.3	558.9	49.9	29.1	21.6	16.5	12.6	10.2	8.6	6.7	6.3
62.5°	1744.9	651.2	42.1	25.2	18.5	14.1	10.6	8.6	7.1	5.5	4.7
65°	2073.5	808.4	34.6	20.8	14.9	11.8	9.0	7.1	5.5	3.9	3.5
67.5°	2310.1	849.3	27.9	16.9	12.2	9.0	7.5	5.5	3.9	2.8	2.4
70°	2019.6	609.9	21.6	13.8	10.2	7.1	5.9	4.3	2.8	2.0	1.6
72.5°	1521.7	398.5	16.1	10.6	7.9	5.9	4.3	3.5	2.4	1.6	1.2
75°	1072.5	230.3	11.8	7.9	5.5	4.3	3.5	2.8	2.0	1.2	1.2
77.5°	549.8	95.1	8.3	5.5	3.9	2.8	2.4	1.6	1.6	1.2	0.8
80°	167.0	31.4	4.7	3.5	2.8	2.0	1.2	1.2	1.2	0.8	0.4
82.5°	38.1	10.2	2.8	2.8	2.0	1.6	1.2	0.4	0.4	0.0	0.0
85°	9.8	3.1	2.4	2.0	2.0	1.6	0.8	0.4	0.0	0.0	0.0
87.5°	3.5	2.0	2.0	2.0	1.6	1.2	0.8	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)