

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: P630794

Luminaire Tested: GWS-SA1E-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-735-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6027.4 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

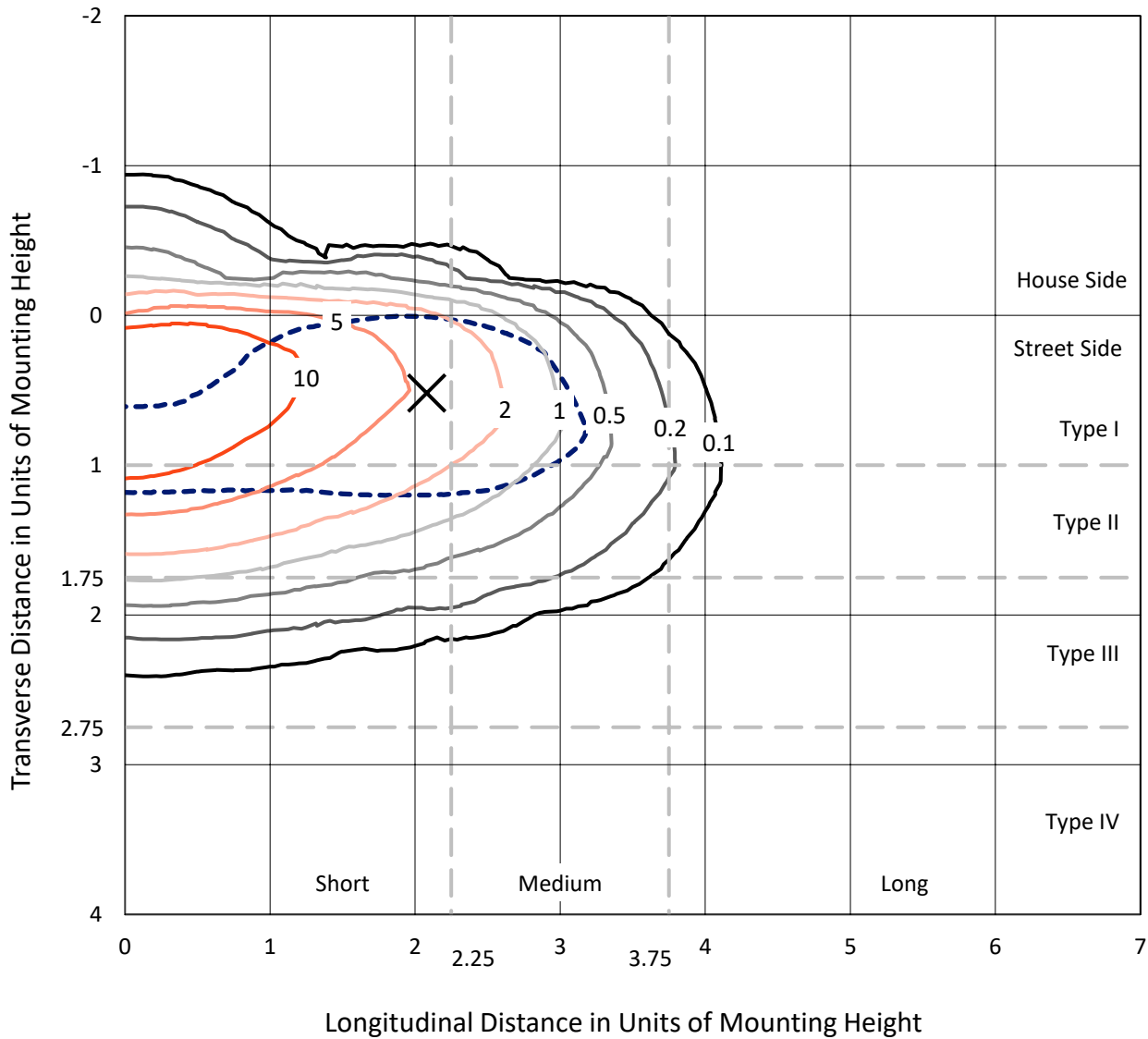
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

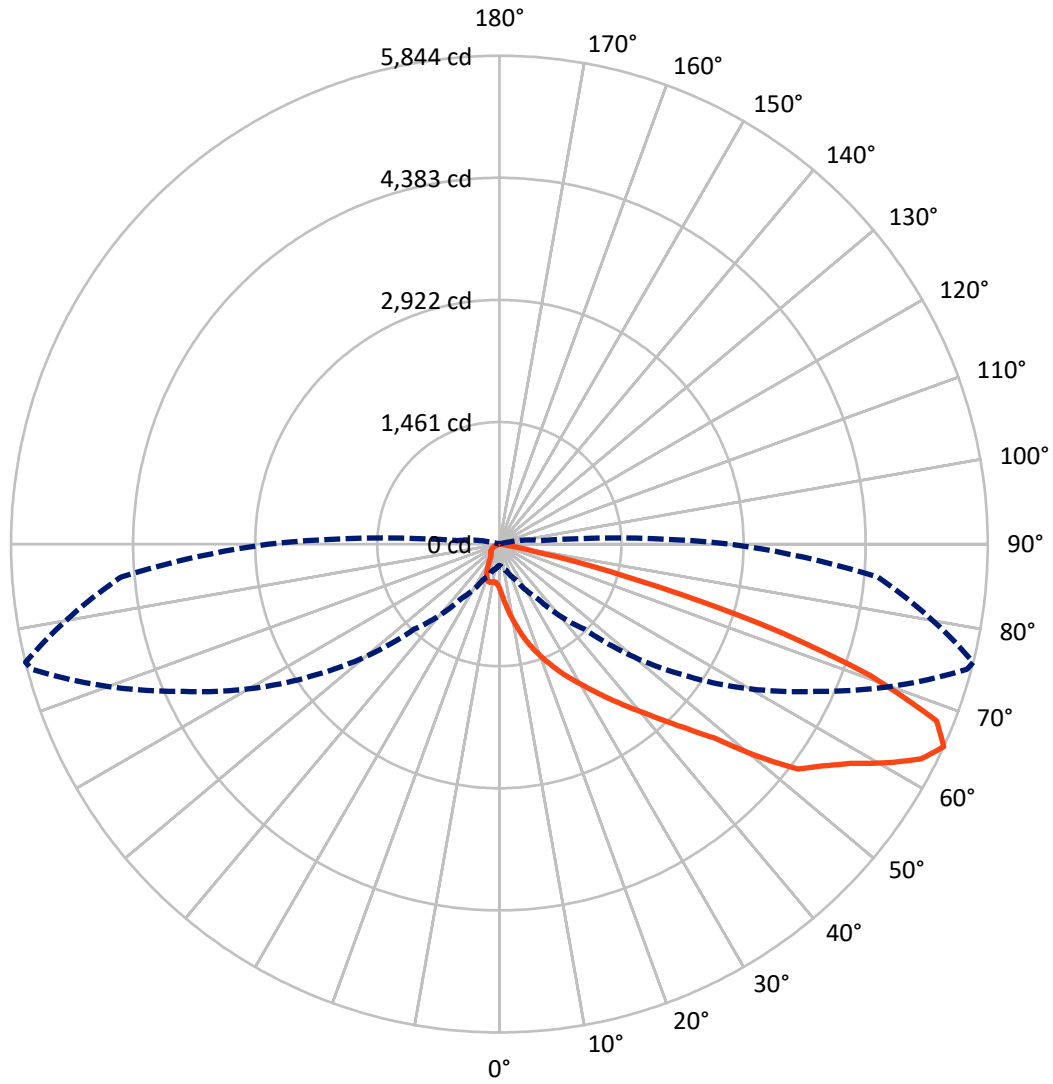
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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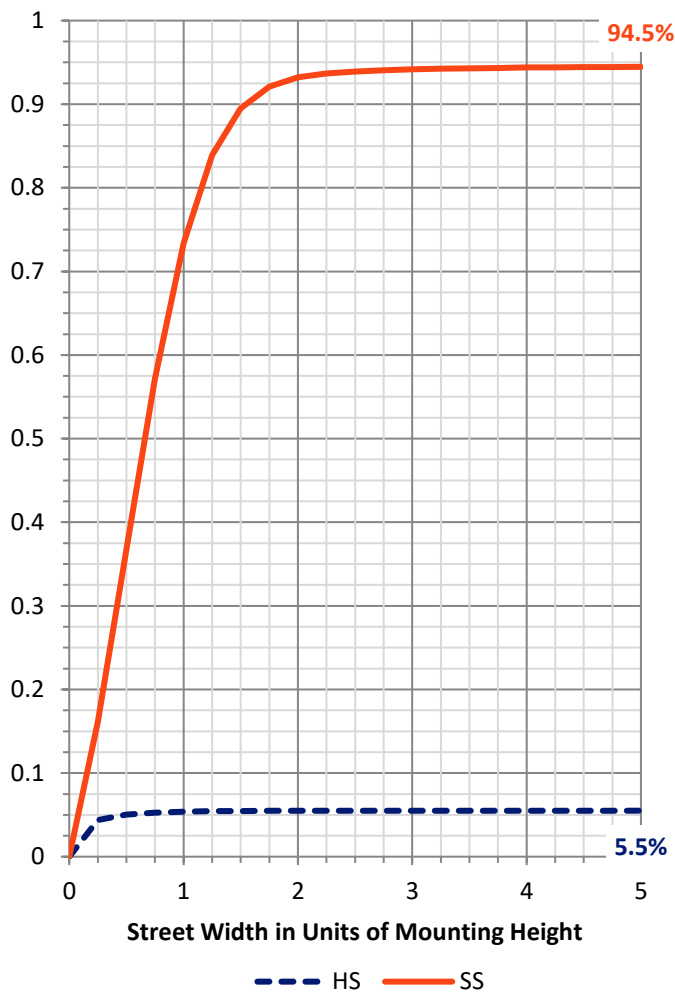
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	333.3	0.0	333.3
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	5694.1	0.0	5694.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	6027.4	0.0	6027.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	1.1
10°-20°	246.3	4.1
20°-30°	502.6	8.3
30°-40°	893.8	14.8
40°-50°	1321.3	21.9
50°-60°	1512.8	25.1
60°-70°	1154.2	19.1
70°-80°	323.3	5.4
80°-90°	8.1	0.1
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°	6027.4	100.0
0°-180°	6027.4	100.0

Coefficient of Utilization



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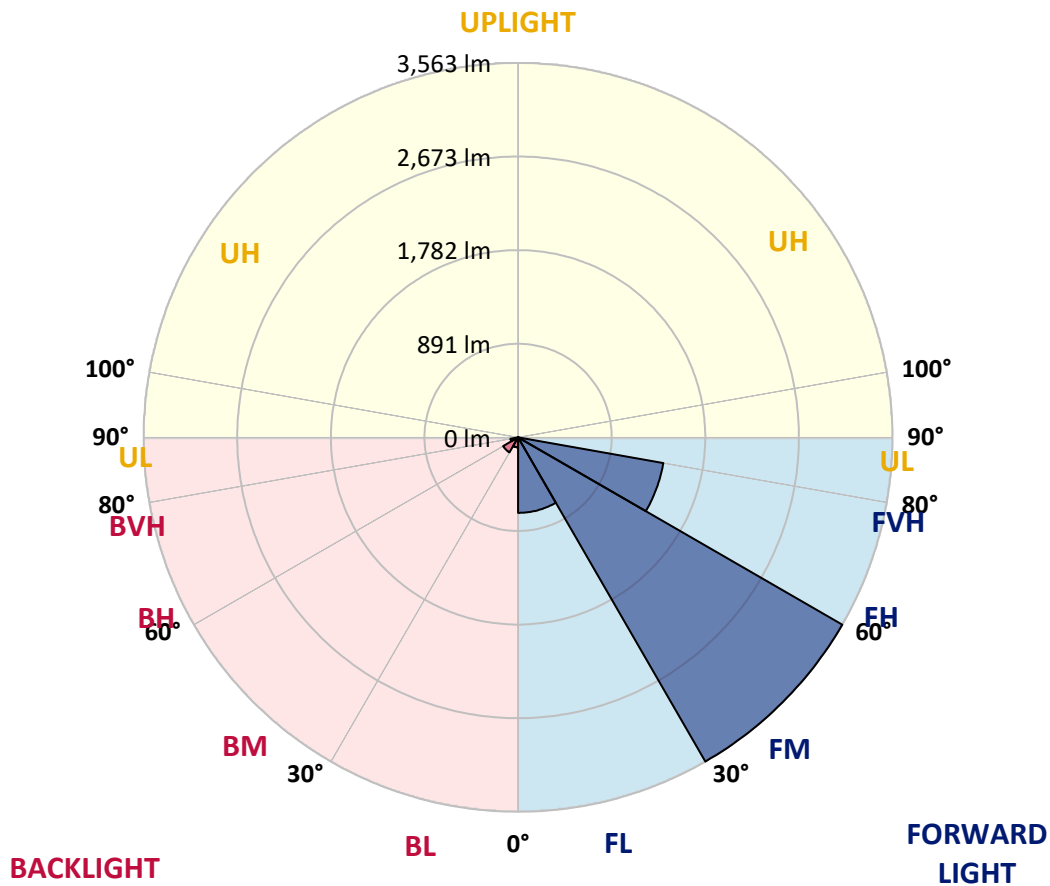
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	718.7	11.9			
FM (30°-60°)	3563.5	59.1			
FH (60°-80°)	1404.2	23.3			G1/1800
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	95.1	1.6	B0/110		
BM (30°-60°)	164.4	2.7	B0/220		
BH (60°-80°)	73.3	1.2	B0/110		G0/110
BVH (80°-90°)	0.5	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°	75°	76°	85°
0°	533.6	533.6	533.6	533.6	533.6	533.6	533.6	533.6	533.6	533.6	533.6
2.5°	822.4	834.8	825.1	809.0	778.0	748.0	709.4	656.3	614.0	608.7	569.0
5°	1110.7	1109.6	1088.7	1067.8	1035.1	983.7	906.0	807.4	712.6	704.6	615.6
7.5°	1282.1	1283.7	1272.0	1255.9	1223.7	1170.7	1089.8	970.8	832.1	816.0	679.4
10°	1426.3	1425.7	1417.2	1409.7	1380.7	1345.4	1258.6	1127.8	960.7	935.5	750.6
12.5°	1534.5	1538.2	1542.5	1550.0	1537.7	1502.9	1420.9	1278.4	1090.9	1063.0	832.1
15°	1620.2	1621.3	1637.4	1666.3	1676.5	1658.3	1583.8	1424.1	1219.5	1195.3	925.8
17.5°	1645.9	1648.1	1675.4	1728.5	1782.0	1792.2	1736.0	1570.9	1345.9	1320.2	1016.9
20°	1700.1	1704.9	1725.2	1771.9	1839.4	1894.0	1872.0	1719.3	1472.3	1438.6	1110.2
22.5°	1870.4	1873.1	1866.1	1872.0	1906.9	1970.1	1983.5	1862.9	1602.0	1566.1	1210.9
25°	2163.5	2164.6	2115.8	2069.7	2043.5	2055.3	2084.8	1995.3	1730.6	1695.2	1304.6
27.5°	2467.8	2471.6	2413.2	2335.0	2241.2	2187.6	2179.0	2116.4	1860.3	1821.1	1397.3
30°	2754.5	2754.5	2692.9	2597.5	2472.1	2367.6	2306.0	2238.5	1999.0	1956.2	1492.2
32.5°	3012.2	3010.1	2931.3	2827.9	2704.1	2589.5	2459.8	2366.0	2153.3	2105.6	1601.5
35°	3224.9	3219.5	3130.1	3031.0	2898.6	2813.4	2668.8	2503.2	2320.5	2272.8	1714.0
37.5°	3385.6	3379.8	3297.8	3192.8	3070.1	3014.9	2893.8	2667.7	2496.8	2453.4	1838.8
40°	3473.0	3461.2	3404.4	3326.2	3223.3	3175.1	3124.7	2871.8	2704.1	2650.0	1986.2
42.5°	3498.7	3484.8	3447.3	3410.8	3348.7	3310.6	3364.7	3102.2	2931.8	2885.2	2154.4
45°	3422.6	3414.6	3411.4	3437.6	3448.9	3459.6	3593.0	3357.2	3183.1	3147.8	2366.0
47.5°	3239.4	3237.2	3265.6	3374.9	3493.9	3606.9	3841.1	3671.8	3508.9	3470.8	2661.8
50°	2900.8	2922.7	3002.0	3193.8	3431.7	3690.5	4073.1	4107.9	4036.1	3980.4	3047.6
52.5°	2371.4	2413.7	2591.6	2883.1	3224.9	3666.9	4180.2	4457.2	4530.6	4472.8	3324.0
55°	1860.8	1900.4	2059.0	2428.7	2884.7	3487.4	4185.0	4577.8	4738.0	4684.4	3511.0
57.5°	1386.1	1422.5	1566.6	1920.3	2421.8	3134.4	4070.4	4644.7	4983.9	4949.6	3806.2
60°	906.0	941.9	1072.1	1381.3	1878.5	2620.0	3788.0	4630.8	5318.8	5315.6	4169.0
62.5°	502.6	531.0	625.3	866.4	1311.1	2029.0	3344.4	4491.0	5642.9	5663.3	4467.9
65°	257.2	275.4	332.7	476.3	793.5	1438.6	2760.9	4170.6	5792.9	5844.4	4546.7
67.5°	168.2	174.1	188.1	247.5	424.9	904.9	2077.8	3656.8	5581.8	5641.8	4282.6
70°	136.6	141.4	149.5	165.0	219.1	480.6	1364.7	2920.6	4664.0	4704.8	3410.3
72.5°	100.2	106.6	122.2	132.3	158.1	263.6	709.9	1917.0	3202.9	3274.7	2143.2
75°	73.9	77.7	90.5	104.5	129.1	166.6	271.6	1007.8	1654.0	1612.2	900.1
77.5°	44.5	47.1	57.9	67.0	92.2	103.9	94.8	372.4	503.1	473.1	217.5
80°	22.0	24.6	38.0	50.4	58.9	41.8	39.6	103.9	112.0	112.0	54.7
82.5°	7.5	9.6	20.4	33.2	28.9	16.1	18.8	26.8	30.0	31.6	16.1
85°	0.0	0.0	4.8	9.6	4.3	2.1	4.8	5.9	7.5	8.0	5.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	2.1	2.1
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°	533.6	533.6	533.6	533.6	533.6	533.6	533.6	533.6	533.6	533.6	533.6
2.5°	547.6	522.4	484.4	450.1	423.8	399.2	380.4	365.4	362.7	354.2	355.2
5°	572.2	526.7	456.5	402.4	364.3	338.6	317.2	301.1	294.1	287.2	281.8
7.5°	610.3	544.4	445.8	379.9	335.4	295.8	262.5	235.7	222.9	214.9	209.5
10°	656.9	569.0	446.3	366.5	300.6	240.0	194.5	165.0	151.1	146.8	146.3
12.5°	712.6	600.1	450.6	344.5	250.2	178.4	144.1	130.7	126.4	122.7	122.7
15°	771.5	634.9	450.6	304.3	190.7	139.3	124.8	116.3	110.9	108.8	107.7
17.5°	833.7	667.6	439.9	249.1	146.3	122.7	110.9	102.9	98.6	95.4	94.3
20°	900.1	698.7	413.1	190.7	125.4	109.8	98.6	90.5	86.3	83.0	83.0
22.5°	967.6	727.6	369.7	146.8	110.9	97.5	86.8	79.3	75.0	71.8	71.8
25°	1030.3	746.9	314.0	121.1	100.2	86.8	77.2	69.7	64.8	62.7	61.6
27.5°	1088.7	759.2	252.4	106.6	90.0	77.7	67.5	60.5	56.8	55.2	54.1
30°	1149.3	762.4	192.9	97.0	81.4	68.6	58.9	53.6	50.4	48.2	48.2
32.5°	1208.2	758.7	147.3	88.9	73.9	60.5	52.5	47.7	45.0	43.4	42.9
35°	1268.2	741.5	119.5	82.0	66.4	53.0	46.6	42.9	41.3	39.1	39.1
37.5°	1333.6	718.5	103.9	75.0	58.9	47.7	41.8	39.1	37.0	35.4	34.8
40°	1415.0	691.7	95.4	69.1	52.0	42.9	37.5	34.8	33.2	31.6	31.1
42.5°	1511.5	665.4	91.1	62.7	46.6	38.0	33.8	30.5	28.9	26.8	26.3
45°	1648.1	659.6	86.3	55.7	41.8	34.3	29.5	26.3	24.1	22.5	22.0
47.5°	1867.8	676.2	78.2	48.2	37.0	30.0	25.2	22.5	19.8	18.2	17.1
50°	2085.8	671.9	70.2	41.8	32.7	25.7	21.4	18.8	16.1	14.5	13.9
52.5°	2204.8	651.5	62.7	37.0	28.4	22.0	18.2	15.0	13.4	11.8	11.3
55°	2312.5	643.5	55.2	32.1	24.1	19.3	15.0	12.3	11.3	9.6	9.1
57.5°	2523.6	662.2	48.8	27.9	20.9	16.6	12.9	10.2	9.1	7.5	7.0
60°	2744.3	664.4	41.8	24.1	18.2	13.9	10.2	8.0	7.0	5.4	4.8
62.5°	2859.5	610.3	34.3	20.4	15.0	11.8	8.6	6.4	5.4	3.2	3.2
65°	2763.1	493.5	28.9	16.6	11.8	9.1	6.4	4.8	3.2	1.6	0.5
67.5°	2445.3	350.9	24.1	13.4	8.6	6.4	4.8	3.2	0.5	0.0	0.0
70°	1790.6	200.4	18.8	9.6	6.4	4.3	3.2	1.6	0.0	0.0	0.0
72.5°	1100.5	107.2	13.9	6.4	4.8	3.2	2.7	1.1	0.0	0.0	0.0
75°	417.4	51.4	8.6	4.3	3.8	2.7	1.6	0.5	0.0	0.0	0.0
77.5°	113.1	25.2	4.8	3.2	2.7	1.6	1.1	0.0	0.0	0.0	0.0
80°	29.5	11.8	3.2	2.1	1.6	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	10.2	5.4	1.6	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0
85°	4.3	2.1	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.5	0.5	0.5	0.5	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)