

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: P633379

Luminaire Tested: GWS-SA2E-750-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633379
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-SA2E-750-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12037 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

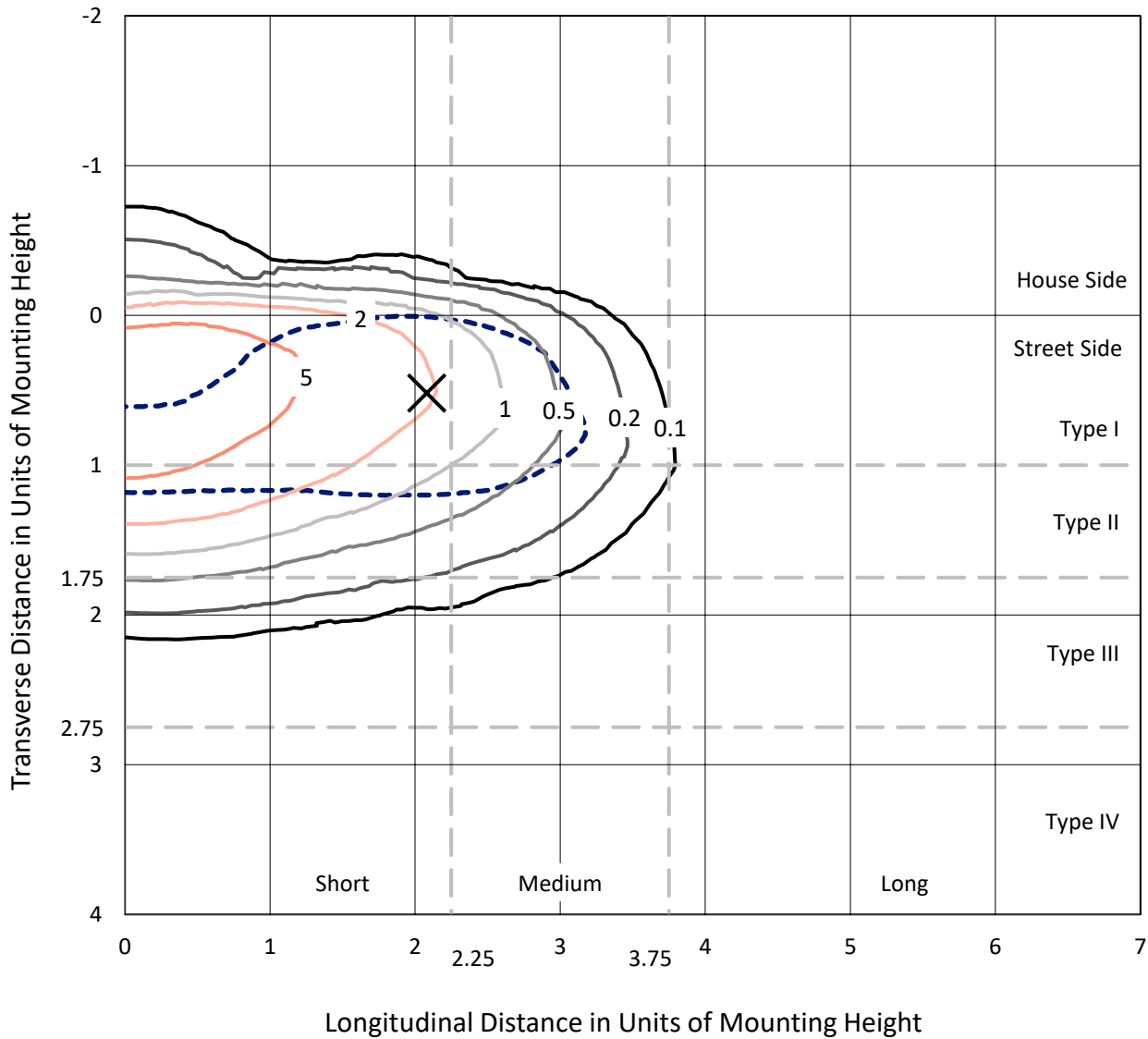
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

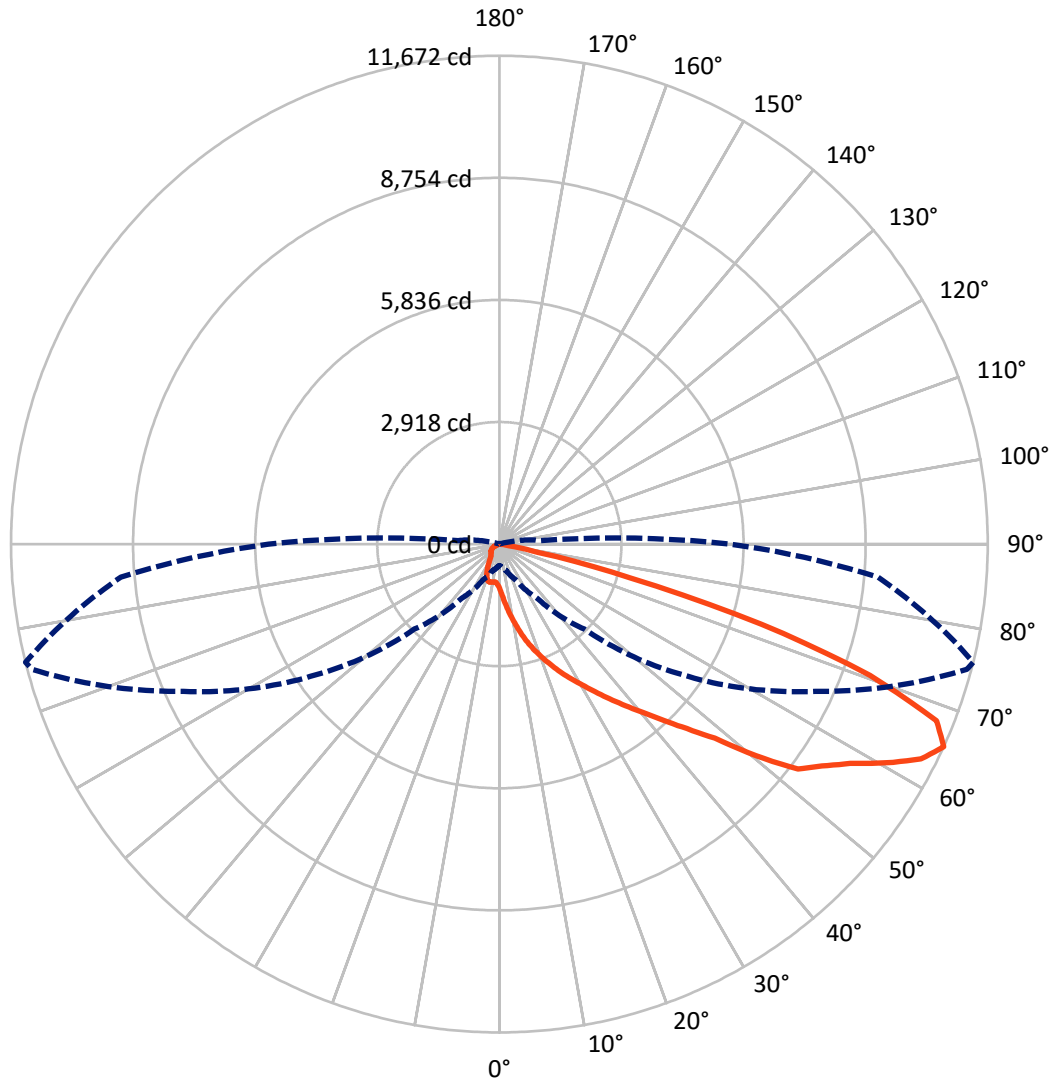
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 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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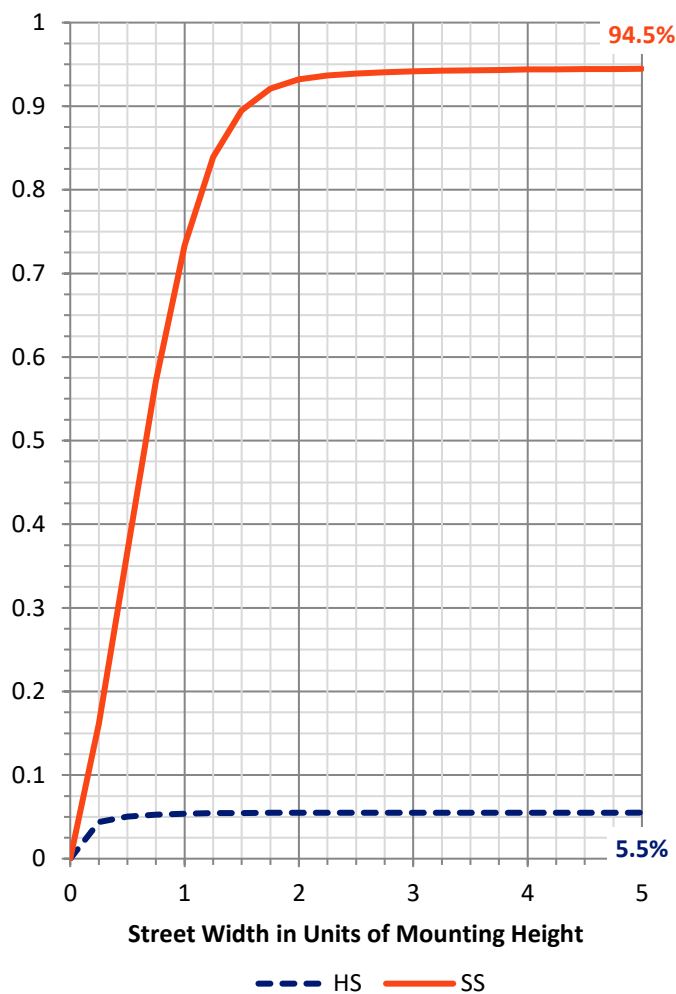
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	665.6	0.0	665.6
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	11371.4	0.0	11371.4
	% Fixture	94.5	0.0	94.5
Total	Lumens	12037.0	0.0	12037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	1.1
10°-20°	492.0	4.1
20°-30°	1003.7	8.3
30°-40°	1785.0	14.8
40°-50°	2638.7	21.9
50°-60°	3021.1	25.1
60°-70°	2305.0	19.1
70°-80°	645.7	5.4
80°-90°	16.3	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°	12037.0	100.0
0°-180°	12037.0	100.0

Coefficient of Utilization



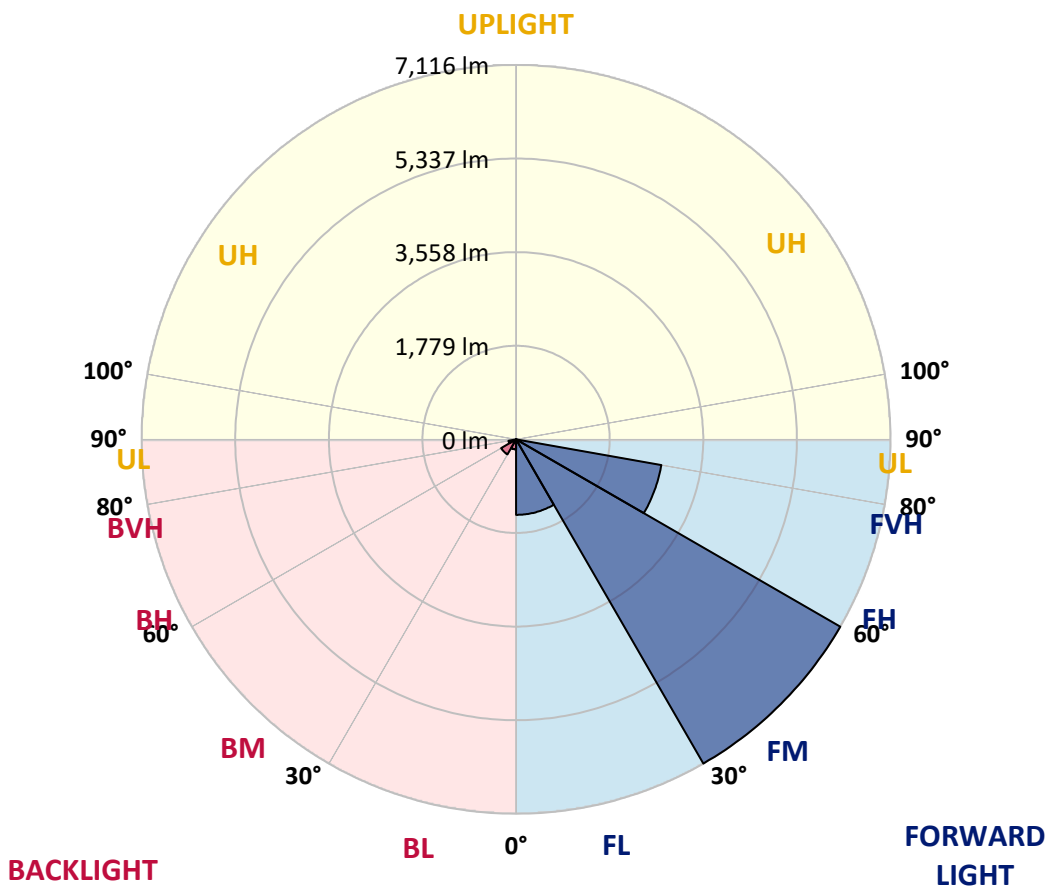
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1435.3	11.9			
FM (30°-60°)	7116.5	59.1			
FH (60°-80°)	2804.3	23.3			G2/5000
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	189.9	1.6	B1/500		
BM (30°-60°)	328.4	2.7	B1/1000		
BH (60°-80°)	146.3	1.2	B1/500		G1/500
BVH (80°-90°)	0.9	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7
2.5°	1642.4	1667.0	1647.8	1615.7	1553.6	1493.7	1416.7	1310.7	1226.2	1215.5	1136.3
5°	2218.1	2216.0	2174.2	2132.5	2067.2	1964.5	1809.4	1612.5	1423.1	1407.0	1229.4
7.5°	2560.5	2563.7	2540.2	2508.1	2443.9	2337.9	2176.4	1938.8	1661.7	1629.6	1356.8
10°	2848.3	2847.3	2830.1	2815.2	2757.4	2686.8	2513.4	2252.3	1918.5	1868.2	1499.1
12.5°	3064.5	3072.0	3080.5	3095.5	3070.9	3001.3	2837.6	2553.0	2178.5	2122.9	1661.7
15°	3235.7	3237.8	3269.9	3327.7	3348.0	3311.6	3162.9	2844.0	2435.3	2387.2	1848.9
17.5°	3287.0	3291.3	3345.9	3451.8	3558.8	3579.1	3466.8	3137.2	2687.8	2636.5	2030.8
20°	3395.1	3404.7	3445.4	3538.5	3673.3	3782.4	3738.6	3433.6	2940.3	2872.9	2217.0
22.5°	3735.3	3740.7	3726.8	3738.6	3808.1	3934.4	3961.1	3720.4	3199.3	3127.6	2418.2
25°	4320.6	4322.8	4225.4	4133.4	4081.0	4104.5	4163.3	3984.7	3456.1	3385.5	2605.4
27.5°	4928.4	4935.9	4819.3	4663.0	4475.8	4368.8	4351.7	4226.5	3715.0	3636.9	2790.5
30°	5500.8	5500.8	5377.8	5187.3	4937.0	4728.3	4605.3	4470.4	3992.1	3906.5	2979.9
32.5°	6015.5	6011.2	5853.9	5647.4	5400.3	5171.3	4912.3	4725.1	4300.3	4205.1	3198.2
35°	6440.3	6429.6	6250.9	6053.0	5788.7	5618.5	5329.6	4999.0	4634.1	4538.9	3422.9
37.5°	6761.3	6749.5	6585.8	6376.1	6131.1	6020.9	5779.0	5327.5	4986.2	4899.5	3672.2
40°	6935.7	6912.2	6798.7	6642.5	6437.1	6340.8	6240.2	5735.2	5400.3	5292.2	3966.5
42.5°	6987.1	6959.2	6884.3	6811.6	6687.5	6611.5	6719.6	6195.3	5855.0	5761.9	4302.4
45°	6835.1	6819.1	6812.6	6865.1	6887.5	6908.9	7175.4	6704.6	6356.8	6286.2	4725.1
47.5°	6469.2	6464.9	6521.6	6739.9	6977.4	7203.2	7670.8	7332.7	7007.4	6931.4	5315.7
50°	5792.9	5836.8	5995.2	6378.2	6853.3	7370.1	8134.1	8203.6	8060.3	7949.0	6086.1
52.5°	4735.8	4820.3	5175.6	5757.6	6440.3	7323.0	8348.1	8901.3	9047.9	8932.3	6638.2
55°	3716.1	3795.3	4112.0	4850.3	5760.8	6964.6	8357.7	9142.0	9462.0	9355.0	7011.7
57.5°	2768.1	2840.8	3128.7	3834.9	4836.4	6259.5	8128.7	9275.8	9953.1	9884.6	7601.2
60°	1809.4	1881.0	2141.1	2758.4	3751.4	5232.3	7564.9	9248.0	10621.8	10615.4	8325.6
62.5°	1003.7	1060.4	1248.7	1730.2	2618.3	4052.1	6678.9	8968.7	11269.2	11309.8	8922.7
65°	513.6	550.0	664.5	951.2	1584.7	2872.9	5513.7	8328.8	11568.8	11671.5	9080.0
67.5°	336.0	347.7	375.6	494.3	848.5	1807.2	4149.4	7302.7	11147.2	11267.0	8552.5
70°	272.8	282.5	298.5	329.6	437.6	959.8	2725.3	5832.5	9314.3	9395.6	6810.5
72.5°	200.1	212.9	244.0	264.3	315.6	526.4	1417.7	3828.4	6396.4	6539.8	4280.0
75°	147.7	155.1	180.8	208.6	257.9	332.8	542.5	2012.7	3303.1	3219.6	1797.6
77.5°	88.8	94.2	115.6	133.7	184.0	207.6	189.4	743.6	1004.7	944.8	434.4
80°	43.9	49.2	76.0	100.6	117.7	83.5	79.2	207.6	223.6	223.6	109.1
82.5°	15.0	19.3	40.7	66.3	57.8	32.1	37.4	53.5	59.9	63.1	32.1
85°	0.0	0.0	9.6	19.3	8.6	4.3	9.6	11.8	15.0	16.0	10.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.2	4.3	4.3
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°	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7	1065.7
2.5°	1093.5	1043.2	967.3	898.8	846.4	797.1	759.7	729.7	724.4	707.3	709.4
5°	1142.8	1051.8	911.6	803.6	727.6	676.2	633.4	601.3	587.4	573.5	562.8
7.5°	1218.7	1087.1	890.2	758.6	669.8	590.6	524.3	470.8	445.1	429.1	418.4
10°	1311.8	1136.3	891.3	731.9	600.3	479.4	388.4	329.6	301.7	293.2	292.1
12.5°	1423.1	1198.4	899.9	688.0	499.7	356.3	287.8	261.1	252.5	245.0	245.0
15°	1540.8	1267.9	899.9	607.8	380.9	278.2	249.3	232.2	221.5	217.2	215.1
17.5°	1664.9	1333.2	878.5	497.5	292.1	245.0	221.5	205.4	196.9	190.5	188.3
20°	1797.6	1395.3	825.0	380.9	250.4	219.3	196.9	180.8	172.3	165.8	165.8
22.5°	1932.4	1453.1	738.3	293.2	221.5	194.7	173.3	158.4	149.8	143.4	143.4
25°	2057.6	1491.6	627.0	241.8	200.1	173.3	154.1	139.1	129.5	125.2	123.0
27.5°	2174.2	1516.2	504.0	212.9	179.8	155.1	134.8	120.9	113.4	110.2	108.1
30°	2295.1	1522.6	385.2	193.7	162.6	137.0	117.7	107.0	100.6	96.3	96.3
32.5°	2412.8	1515.1	294.2	177.6	147.7	120.9	104.9	95.2	89.9	86.7	85.6
35°	2532.7	1480.9	238.6	163.7	132.7	105.9	93.1	85.6	82.4	78.1	78.1
37.5°	2663.2	1434.9	207.6	149.8	117.7	95.2	83.5	78.1	73.8	70.6	69.5
40°	2825.9	1381.4	190.5	138.0	103.8	85.6	74.9	69.5	66.3	63.1	62.1
42.5°	3018.5	1328.9	181.9	125.2	93.1	76.0	67.4	61.0	57.8	53.5	52.4
45°	3291.3	1317.2	172.3	111.3	83.5	68.5	58.8	52.4	48.1	44.9	43.9
47.5°	3730.0	1350.3	156.2	96.3	73.8	59.9	50.3	44.9	39.6	36.4	34.2
50°	4165.5	1341.8	140.2	83.5	65.3	51.4	42.8	37.4	32.1	28.9	27.8
52.5°	4403.0	1301.1	125.2	73.8	56.7	43.9	36.4	30.0	26.7	23.5	22.5
55°	4618.1	1285.1	110.2	64.2	48.1	38.5	30.0	24.6	22.5	19.3	18.2
57.5°	5039.7	1322.5	97.4	55.6	41.7	33.2	25.7	20.3	18.2	15.0	13.9
60°	5480.5	1326.8	83.5	48.1	36.4	27.8	20.3	16.0	13.9	10.7	9.6
62.5°	5710.6	1218.7	68.5	40.7	30.0	23.5	17.1	12.8	10.7	6.4	6.4
65°	5518.0	985.5	57.8	33.2	23.5	18.2	12.8	9.6	6.4	3.2	1.1
67.5°	4883.5	700.8	48.1	26.7	17.1	12.8	9.6	6.4	1.1	0.0	0.0
70°	3575.9	400.2	37.4	19.3	12.8	8.6	6.4	3.2	0.0	0.0	0.0
72.5°	2197.8	214.0	27.8	12.8	9.6	6.4	5.3	2.1	0.0	0.0	0.0
75°	833.5	102.7	17.1	8.6	7.5	5.3	3.2	1.1	0.0	0.0	0.0
77.5°	225.8	50.3	9.6	6.4	5.3	3.2	2.1	0.0	0.0	0.0	0.0
80°	58.8	23.5	6.4	4.3	3.2	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	20.3	10.7	3.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	8.6	4.3	2.1	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.1	1.1	1.1	1.1	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)