

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: P638545

Luminaire Tested: GWS-SA4F-722-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638545
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-SA4F-722-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18773.2 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

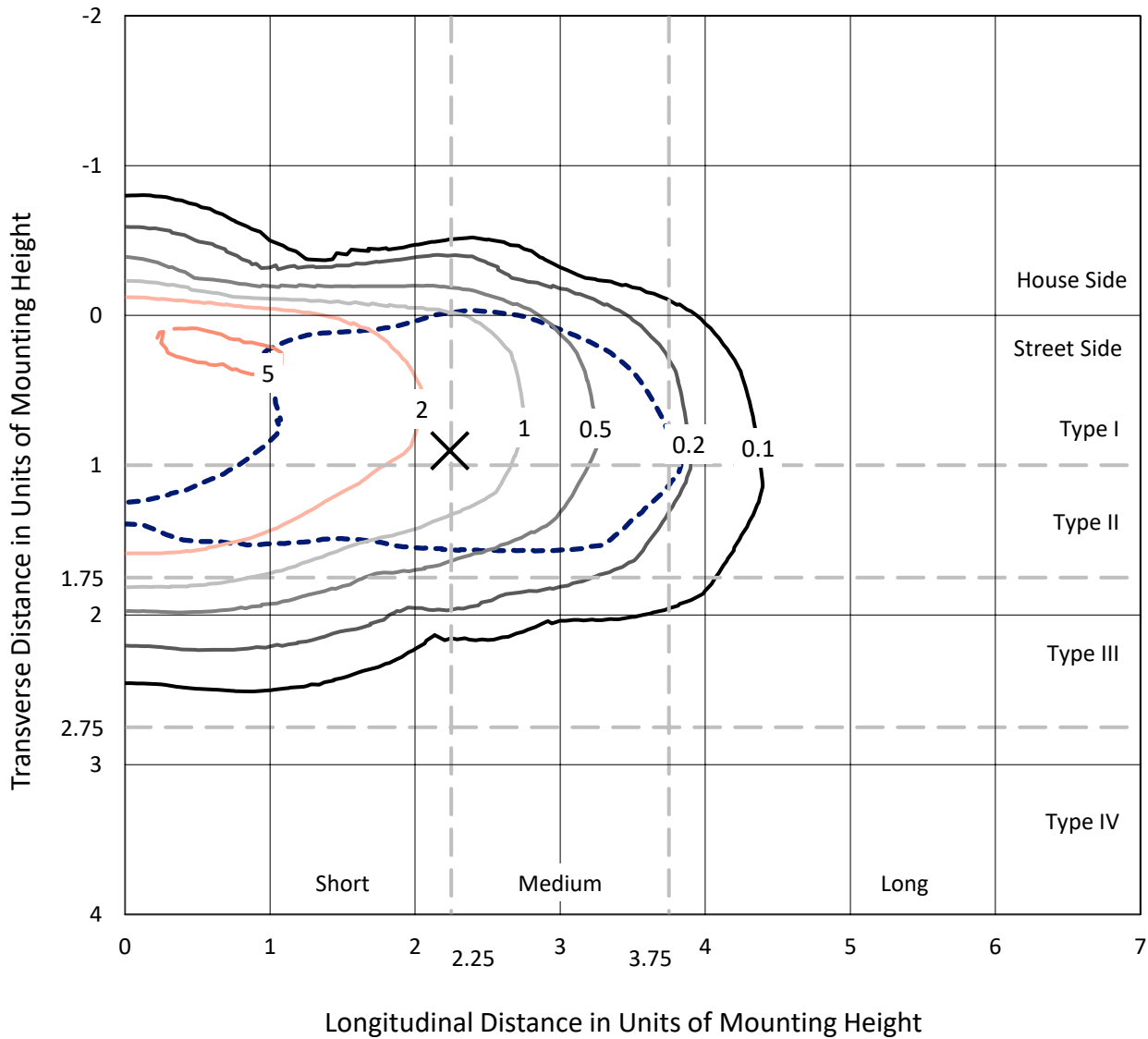
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

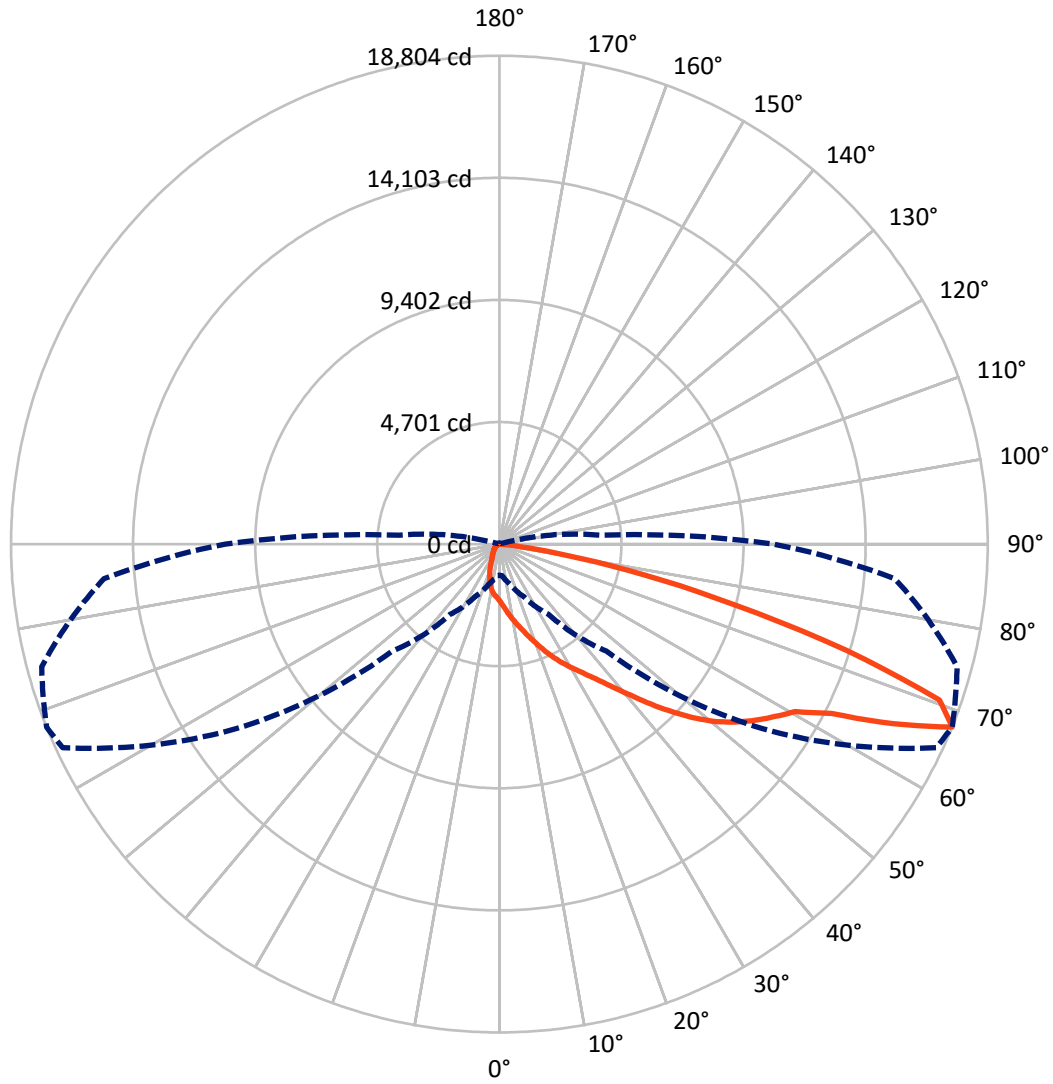
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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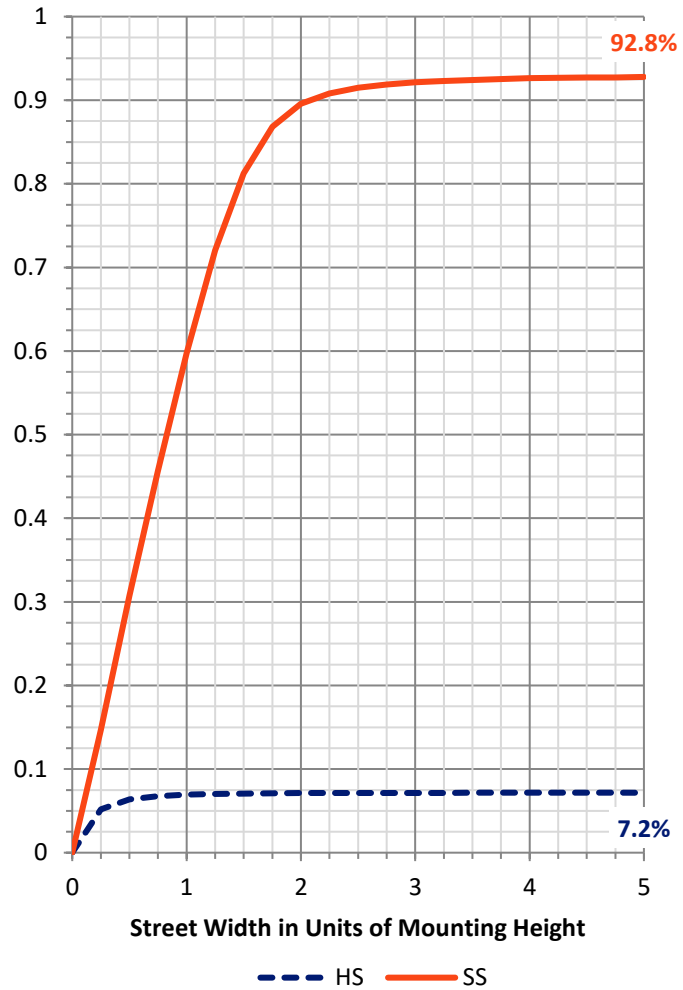
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1355.7	0.0	1355.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	17417.6	0.0	17417.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	18773.2	0.0	18773.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	1.1
10°-20°	611.9	3.3
20°-30°	1051.5	5.6
30°-40°	1828.2	9.7
40°-50°	3190.1	17.0
50°-60°	4811.4	25.6
60°-70°	4824.6	25.7
70°-80°	2128.6	11.3
80°-90°	113.7	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°	18773.2	100.0
0°-180°	18773.2	100.0

Coefficient of Utilization



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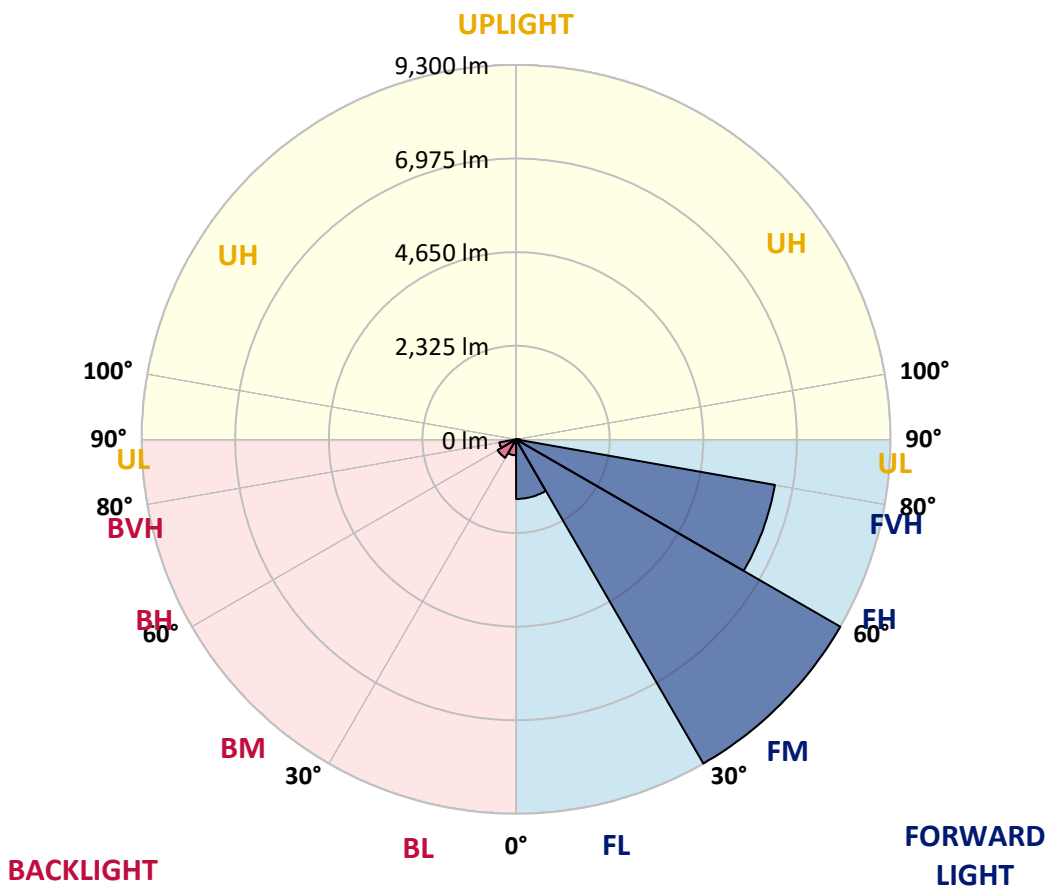
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1479.9	7.9			
FM (30°-60°)	9300.2	49.5			
FH (60°-80°)	6530.2	34.8			G3/7500
FVH (80°-90°)	107.3	0.6			G2/225
BL (0°-30°)	396.6	2.1	B1/500		
BM (30°-60°)	529.5	2.8	B1/1000		
BH (60°-80°)	423.1	2.3	B1/500		G1/500
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2184.7	2184.7	2184.7	2184.7	2184.7	2184.7	2184.7	2184.7	2184.7	2184.7	2184.7
2.5°	2544.1	2560.2	2544.1	2547.6	2500.9	2479.4	2432.7	2368.0	2351.8	2310.5	2247.6
5°	2854.9	2869.2	2853.1	2849.5	2795.6	2756.1	2678.8	2567.4	2535.1	2454.2	2330.3
7.5°	3023.8	3032.7	3038.1	3047.1	3027.4	2995.0	2924.9	2786.6	2752.5	2621.3	2447.0
10°	3041.7	3048.9	3075.9	3129.8	3169.3	3189.0	3149.5	3022.0	2968.1	2840.5	2590.8
12.5°	2991.4	3002.2	3045.3	3135.1	3244.7	3345.4	3370.5	3259.1	3210.6	3047.1	2759.7
15°	2924.9	2933.9	2993.2	3115.4	3280.7	3465.7	3569.9	3521.4	3467.5	3296.8	2946.5
17.5°	2822.5	2835.1	2917.8	3083.0	3296.8	3561.0	3785.5	3801.7	3764.0	3578.9	3153.1
20°	2765.0	2774.0	2847.7	3018.4	3286.1	3631.0	3986.8	4139.5	4098.2	3904.1	3390.3
22.5°	2813.5	2820.7	2869.2	3002.2	3250.1	3670.6	4173.6	4477.2	4453.9	4252.7	3640.0
25°	3068.7	3092.0	3063.3	3086.6	3266.3	3692.1	4324.5	4815.0	4820.4	4617.4	3898.7
27.5°	3586.1	3555.6	3487.3	3370.5	3392.1	3749.6	4453.9	5133.0	5179.7	4973.1	4128.7
30°	4112.5	4094.6	4053.2	3871.8	3720.9	3877.2	4563.5	5458.2	5531.9	5323.5	4333.5
32.5°	4703.6	4721.6	4647.9	4430.5	4173.6	4135.9	4676.7	5767.2	5905.6	5720.5	4574.3
35°	5409.7	5415.1	5269.6	5028.8	4737.8	4563.5	4879.7	6108.6	6363.7	6227.2	4895.9
37.5°	6097.8	6130.2	6051.1	5672.0	5413.3	5095.3	5215.7	6547.0	6906.3	6852.4	5300.1
40°	6706.9	6757.2	6732.0	6365.5	6026.0	5758.3	5736.7	7060.8	7562.1	7623.2	5833.7
42.5°	7192.0	7224.3	7244.1	6983.6	6683.5	6532.6	6379.9	7657.3	8336.4	8586.2	6487.7
45°	7704.0	7714.8	7756.1	7580.1	7317.7	7330.3	7139.9	8381.4	9152.1	9653.4	7238.7
47.5°	8356.2	8392.1	8372.4	8187.3	7950.2	8092.1	7925.0	9127.0	9957.0	10792.5	8007.7
50°	9150.3	9188.1	9170.1	8954.5	8690.4	8749.7	8645.5	9851.0	10733.2	11866.9	8647.3
52.5°	9560.0	9590.5	9813.3	9910.3	9772.0	9394.7	9259.9	10646.9	11388.9	12750.8	9234.8
55°	9362.3	9383.9	9869.0	10278.6	10785.3	10408.0	9878.0	11261.4	11967.5	13440.7	9671.4
57.5°	8543.1	8659.8	9319.2	10012.7	11078.1	11408.7	10880.5	11929.7	12524.4	13920.4	10100.8
60°	6863.2	6857.8	7802.8	9047.9	10506.8	11683.6	12296.3	12833.5	13083.2	14288.7	10675.7
62.5°	3792.7	3826.9	5084.5	6724.9	8918.6	10972.1	13358.1	14394.7	14357.0	14931.9	11575.8
65°	1888.3	1956.5	2639.3	3852.0	5934.3	9067.7	13541.3	16777.1	16669.3	16446.5	13435.3
67.5°	1198.4	1225.3	1602.6	2238.6	3298.6	5828.3	12400.5	18554.0	18803.7	18243.2	15280.5
70°	776.2	821.1	1113.9	1530.7	1990.7	3004.0	9083.8	17402.3	17975.5	18045.5	14130.6
72.5°	422.2	454.6	711.5	1092.4	1437.3	1502.0	5102.5	13059.8	13981.5	15307.4	11054.8
75°	240.8	264.1	389.9	742.0	1054.6	914.5	2262.0	8742.5	9330.0	10939.8	7921.4
77.5°	145.5	165.3	219.2	361.1	661.2	610.9	855.2	5321.7	5695.4	6527.2	4157.4
80°	66.5	79.1	138.3	199.4	361.1	289.3	327.0	2481.2	2562.0	2678.8	1376.2
82.5°	30.5	35.9	62.9	118.6	204.8	167.1	125.8	573.1	806.7	763.6	350.3
85°	3.6	3.6	23.4	48.5	57.5	43.1	52.1	129.4	163.5	230.0	100.6
87.5°	0.0	0.0	1.8	1.8	3.6	5.4	10.8	16.2	23.4	37.7	25.2
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°	2184.7	2184.7	2184.7	2184.7	2184.7	2184.7	2184.7	2184.7	2184.7	2184.7	2184.7
2.5°	2218.9	2168.6	2123.6	2057.2	2012.2	1961.9	1927.8	1886.5	1870.3	1857.7	1839.8
5°	2269.2	2188.3	2078.7	1956.5	1855.9	1760.7	1672.7	1615.2	1564.9	1557.7	1532.5
7.5°	2351.8	2231.4	2046.4	1847.0	1676.3	1518.2	1394.2	1293.6	1243.3	1227.1	1198.4
10°	2461.4	2296.1	1997.9	1692.4	1446.3	1257.7	1117.5	1004.3	925.3	896.5	875.0
12.5°	2583.6	2355.4	1920.6	1502.0	1221.7	1006.1	828.3	707.9	657.6	639.6	623.4
15°	2723.7	2411.1	1798.4	1311.6	1002.5	740.2	614.5	562.4	540.8	535.4	530.0
17.5°	2858.5	2447.0	1652.9	1113.9	770.8	574.9	515.6	495.9	490.5	485.1	481.5
20°	3011.2	2472.2	1482.2	927.1	598.3	486.9	458.1	443.8	433.0	422.2	420.4
22.5°	3167.5	2472.2	1297.2	743.8	501.3	436.6	404.2	377.3	357.5	346.8	343.2
25°	3316.6	2438.1	1113.9	594.7	442.0	388.1	346.8	316.2	289.3	276.7	273.1
27.5°	3422.6	2350.0	954.0	503.1	400.7	345.0	294.7	260.5	239.0	226.4	224.6
30°	3489.1	2218.9	806.7	449.2	364.7	300.0	249.7	221.0	204.8	195.8	192.2
32.5°	3539.4	2057.2	675.5	411.4	330.6	260.5	217.4	194.0	179.7	172.5	170.7
35°	3640.0	1904.4	578.5	377.3	294.7	228.2	190.4	172.5	161.7	152.7	150.9
37.5°	3780.1	1776.9	501.3	346.8	260.5	203.0	172.5	156.3	147.3	138.3	136.5
40°	3986.8	1696.0	443.8	316.2	230.0	183.3	158.1	143.7	131.2	122.2	120.4
42.5°	4304.8	1658.3	406.0	285.7	203.0	165.3	145.5	127.6	115.0	106.0	104.2
45°	4683.9	1678.1	373.7	255.1	185.1	152.7	129.4	111.4	98.8	89.8	88.0
47.5°	5089.9	1748.1	346.8	226.4	167.1	140.1	115.0	95.2	84.4	75.5	73.7
50°	5513.9	1863.1	323.4	199.4	152.7	125.8	98.8	82.6	71.9	64.7	62.9
52.5°	5882.2	2019.4	300.0	179.7	140.1	111.4	86.2	71.9	61.1	53.9	52.1
55°	6234.4	2166.8	282.1	161.7	125.8	97.0	75.5	61.1	52.1	44.9	43.1
57.5°	6617.1	2323.1	260.5	145.5	113.2	86.2	66.5	52.1	44.9	37.7	35.9
60°	7174.0	2554.8	228.2	133.0	98.8	75.5	57.5	46.7	39.5	30.5	28.7
62.5°	7977.1	2977.0	192.2	115.0	84.4	64.7	48.5	39.5	32.3	25.2	21.6
65°	9479.1	3695.7	158.1	95.2	68.3	53.9	41.3	32.3	25.2	18.0	16.2
67.5°	10560.7	3882.6	127.6	77.3	55.7	41.3	34.1	25.2	18.0	12.6	10.8
70°	9233.0	2788.4	98.8	62.9	46.7	32.3	26.9	19.8	12.6	9.0	7.2
72.5°	6956.6	1821.8	73.7	48.5	35.9	26.9	19.8	16.2	10.8	7.2	5.4
75°	4903.1	1052.8	53.9	35.9	25.2	19.8	16.2	12.6	9.0	5.4	5.4
77.5°	2513.5	434.8	37.7	25.2	18.0	12.6	10.8	7.2	7.2	5.4	3.6
80°	763.6	143.7	21.6	16.2	12.6	9.0	5.4	5.4	5.4	3.6	1.8
82.5°	174.3	46.7	12.6	12.6	9.0	7.2	5.4	1.8	1.8	0.0	0.0
85°	44.9	14.4	10.8	9.0	9.0	7.2	3.6	1.8	0.0	0.0	0.0
87.5°	16.2	9.0	9.0	9.0	7.2	5.4	3.6	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)