

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: P638993

Luminaire Tested: GWS-SA4F-830-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-830-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19843.1 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

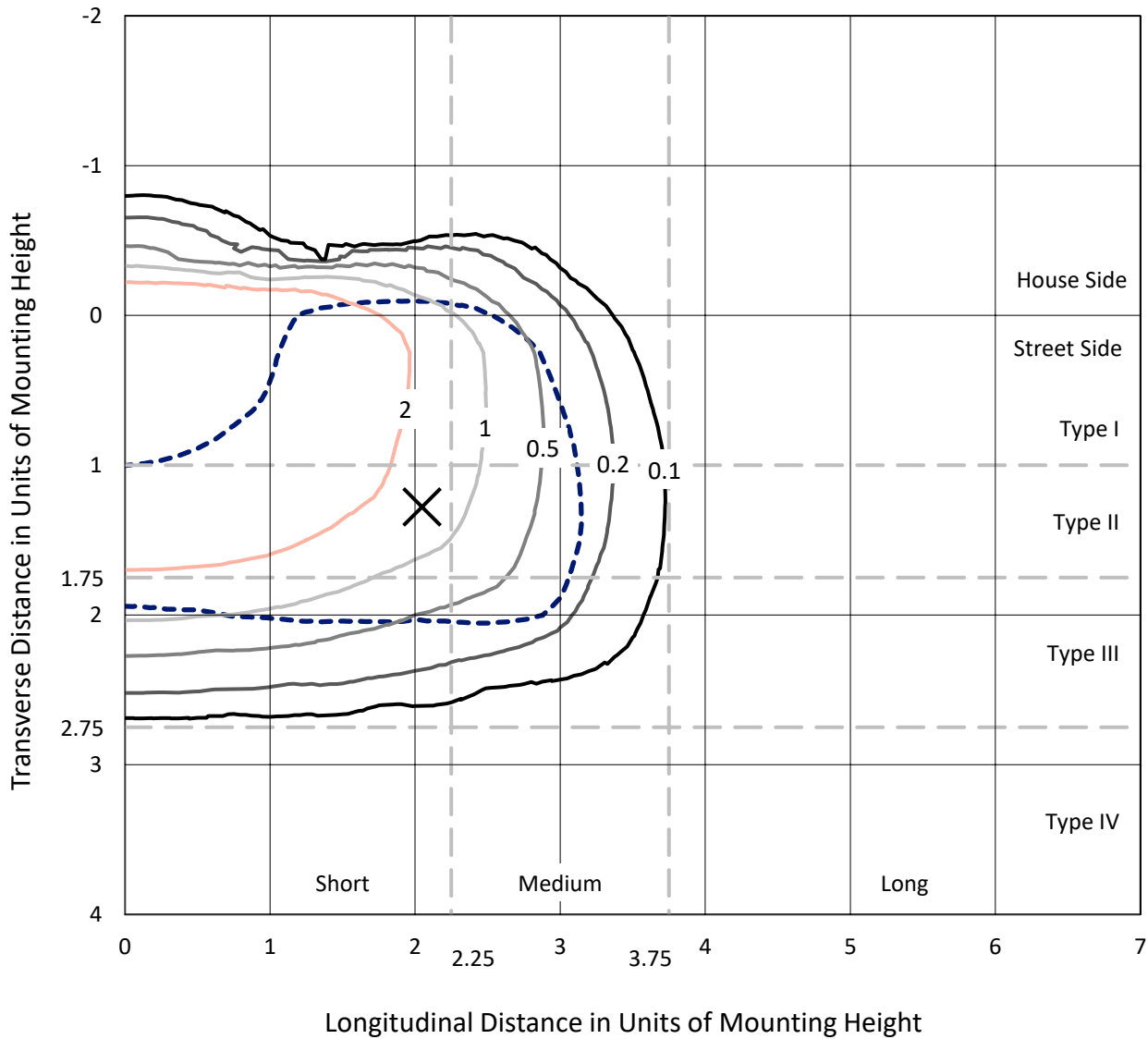
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

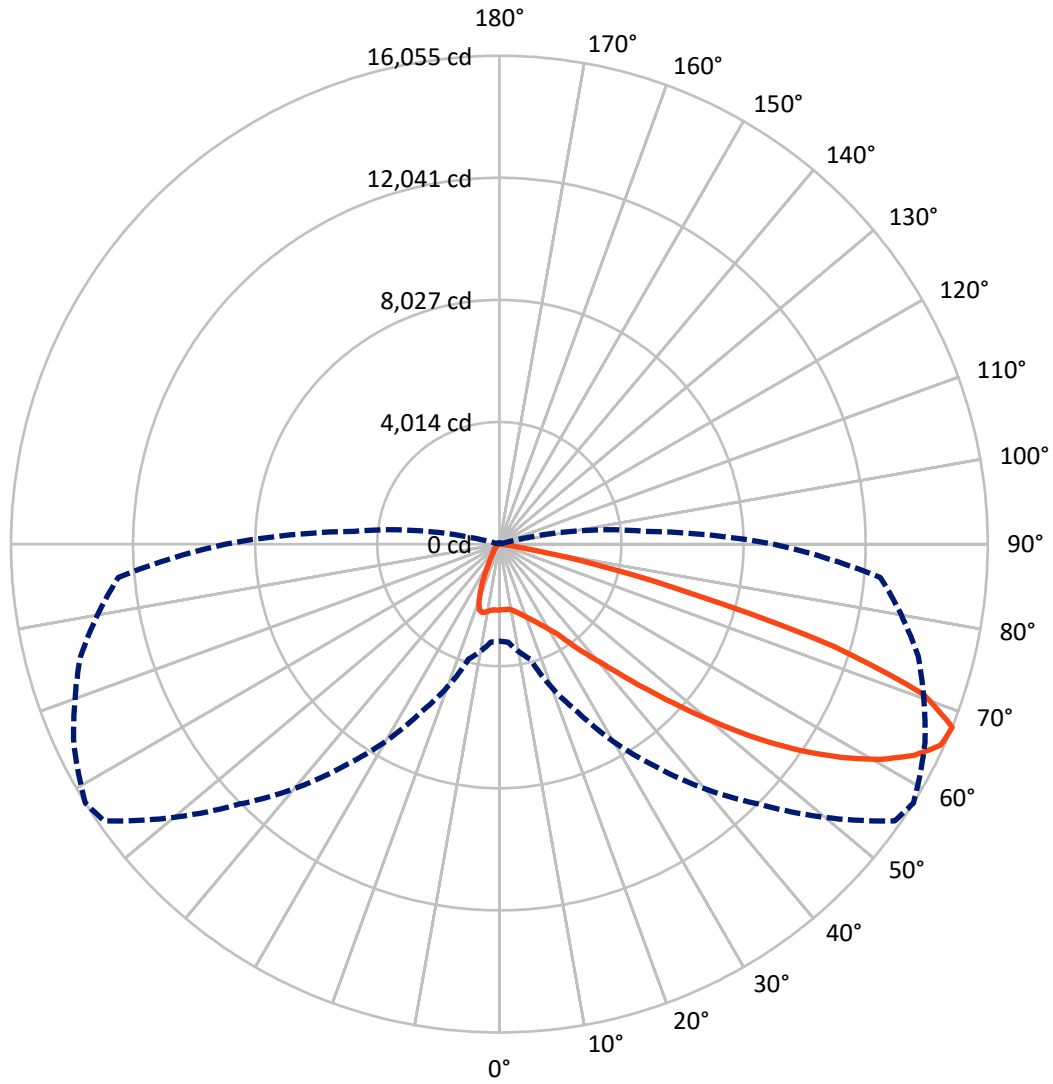
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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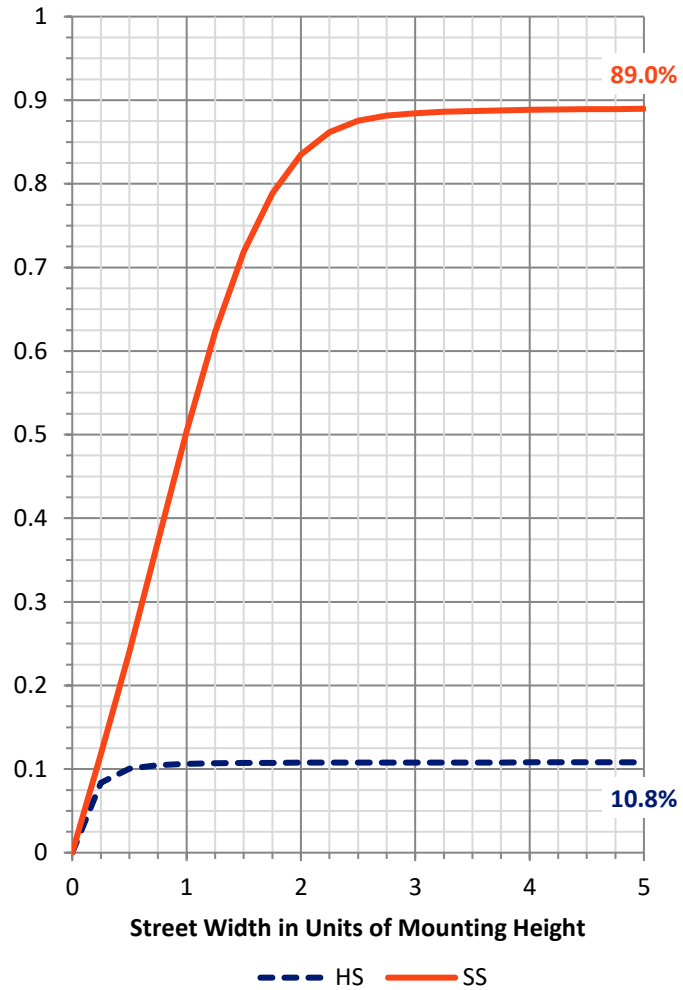
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2164.8	0.0	2164.8
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	17678.3	0.0	17678.3
	% Fixture	89.1	0.0	89.1
Total	Lumens	19843.1	0.0	19843.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	1.0
10°-20°	570.3	2.9
20°-30°	995.5	5.0
30°-40°	1777.8	9.0
40°-50°	3249.5	16.4
50°-60°	5404.3	27.2
60°-70°	5870.0	29.6
70°-80°	1723.5	8.7
80°-90°	49.1	0.2
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°	19843.1	100.0
0°-180°	19843.1	100.0

Coefficient of Utilization



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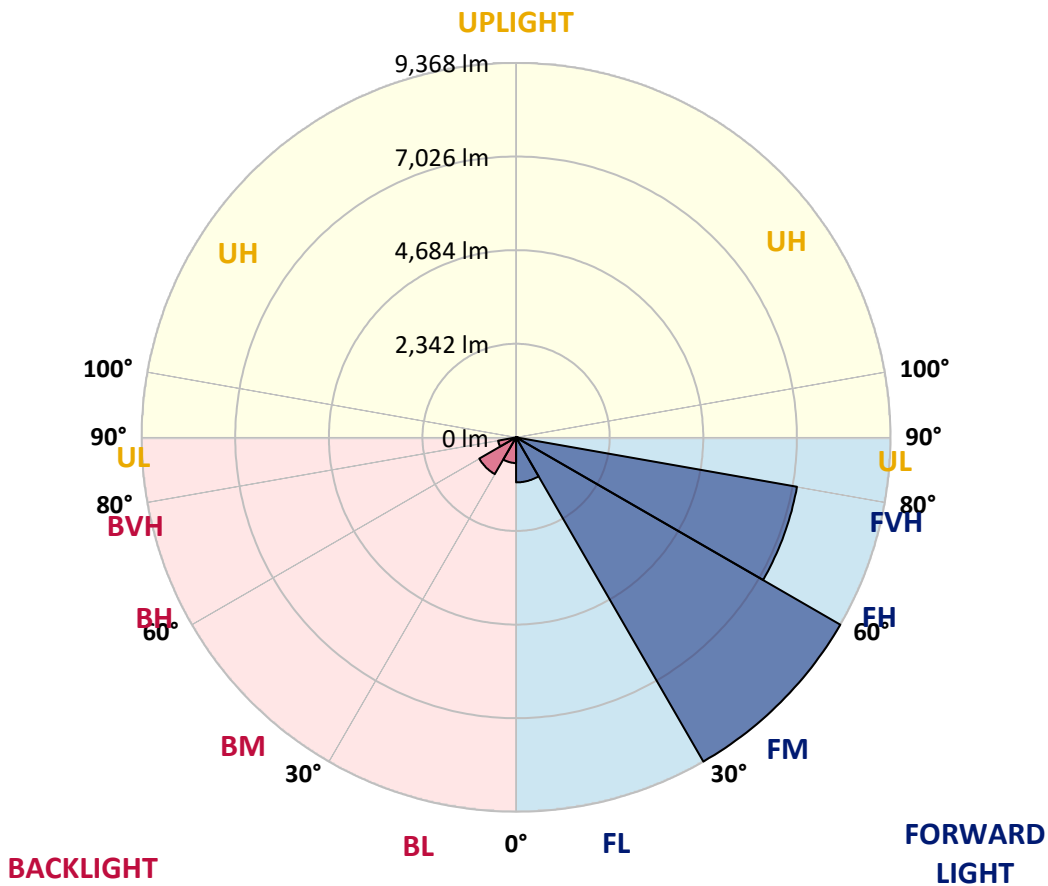
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.8	5.7			
FM (30°-60°)	9368.3	47.2			
FH (60°-80°)	7136.5	36.0			G3/7500
FVH (80°-90°)	46.7	0.2			G1/100
BL (0°-30°)	642.1	3.2	B2/1000		
BM (30°-60°)	1063.3	5.4	B2/2500		
BH (60°-80°)	457.0	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3
2.5°	2121.6	2117.7	2117.7	2133.2	2135.2	2142.9	2160.4	2162.3	2172.0	2168.1	2154.6
5°	2011.2	2013.1	2024.7	2051.9	2075.1	2104.2	2146.8	2156.5	2177.8	2189.4	2181.7
7.5°	1908.5	1910.4	1927.9	1970.5	2015.1	2073.2	2142.9	2162.3	2204.9	2235.9	2237.9
10°	1869.7	1867.8	1885.2	1933.7	1991.8	2073.2	2173.9	2199.1	2263.1	2317.3	2327.0
12.5°	1881.4	1879.4	1896.9	1941.4	2005.4	2108.1	2228.2	2263.1	2344.4	2427.7	2445.2
15°	1927.9	1925.9	1937.5	1974.4	2044.1	2150.7	2297.9	2350.2	2452.9	2553.7	2580.8
17.5°	2067.4	2057.7	2046.1	2049.9	2090.6	2201.1	2387.1	2451.0	2578.9	2699.0	2722.3
20°	2315.4	2290.2	2259.2	2218.5	2199.1	2274.7	2489.8	2563.4	2718.4	2855.9	2859.8
22.5°	2689.3	2679.6	2607.9	2489.8	2406.4	2408.4	2609.9	2695.1	2885.0	3036.1	3014.8
25°	3210.5	3204.7	3094.3	2900.5	2683.5	2609.9	2762.9	2850.1	3082.6	3243.5	3175.6
27.5°	3857.7	3817.0	3687.2	3425.6	3102.0	2871.4	2956.7	3034.2	3291.9	3443.0	3315.1
30°	4421.5	4423.4	4301.4	4028.2	3663.9	3264.8	3193.1	3260.9	3483.7	3642.6	3487.6
32.5°	4964.0	4981.4	4847.7	4601.7	4202.5	3778.2	3532.2	3543.8	3729.8	3902.2	3714.3
35°	5467.8	5481.3	5388.3	5179.1	4807.1	4314.9	4004.9	3999.1	4099.9	4276.2	4030.1
37.5°	6031.6	6045.2	5954.1	5766.1	5417.4	4929.1	4541.6	4533.9	4574.6	4717.9	4437.0
40°	6632.2	6657.4	6556.7	6397.8	6064.5	5651.8	5165.5	5095.8	5055.1	5223.6	4964.0
42.5°	7240.6	7279.4	7244.5	7085.6	6800.8	6459.8	5975.4	5866.9	5779.7	5990.9	5715.8
45°	7996.3	8042.8	8027.3	7905.2	7684.3	7407.3	6950.0	6824.0	6783.4	6979.1	6651.6
47.5°	8722.8	8773.2	8829.4	8802.3	8645.3	8517.5	8009.8	7938.1	7926.5	8135.8	7628.1
50°	9263.4	9309.9	9525.0	9680.0	9786.6	9759.4	9319.6	9213.0	9195.6	9329.3	8658.9
52.5°	9650.9	9695.5	9991.9	10476.3	10867.7	11080.8	10637.1	10613.9	10519.0	10472.5	9623.8
55°	9951.3	10013.3	10325.2	11057.6	11846.2	12318.9	12041.9	11958.6	11714.4	11447.0	10519.0
57.5°	10011.3	10036.5	10476.3	11464.5	12605.7	13371.0	13371.0	13225.7	12754.9	12384.8	11553.6
60°	9472.7	9550.2	10145.0	11431.5	12931.2	14058.9	14473.5	14372.7	13737.2	13281.9	12549.5
62.5°	8277.2	8364.4	9089.0	10643.0	12605.7	14200.3	15308.6	15293.1	14576.2	14024.0	13374.9
65°	6347.4	6411.4	7043.0	8903.0	11230.0	13655.8	15905.3	15948.0	15238.8	14514.2	13659.7
67.5°	3189.2	3233.8	3915.8	6082.0	8901.1	12088.4	15864.7	16054.5	15440.3	14254.6	12572.8
70°	1114.1	1158.7	1480.3	2609.9	5417.4	9230.5	14492.9	14802.9	14256.5	12167.8	9275.0
72.5°	381.7	403.0	614.2	968.8	2108.1	5471.6	11020.8	11487.7	10509.3	8168.7	5330.2
75°	217.0	230.6	329.4	525.1	883.5	1800.0	6252.5	6539.2	6126.5	4452.5	2193.3
77.5°	147.3	158.9	205.4	298.4	488.3	579.3	2549.8	3210.5	2799.8	1453.2	560.0
80°	87.2	94.9	125.9	176.3	249.9	224.8	546.4	726.6	935.8	434.0	168.6
82.5°	40.7	46.5	81.4	116.3	125.9	94.9	160.8	195.7	263.5	213.1	69.8
85°	0.0	0.0	27.1	48.4	46.5	27.1	44.6	48.4	71.7	106.6	27.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.9	3.9	5.8	11.6	21.3	11.6
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°	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3	2162.3
2.5°	2170.1	2156.5	2172.0	2164.2	2172.0	2170.1	2154.6	2144.9	2144.9	2127.4	2121.6
5°	2197.2	2183.6	2187.5	2170.1	2166.2	2156.5	2137.1	2129.4	2129.4	2111.9	2106.1
7.5°	2257.2	2235.9	2232.1	2197.2	2181.7	2154.6	2119.7	2106.1	2104.2	2086.7	2080.9
10°	2352.2	2327.0	2309.6	2265.0	2220.4	2166.2	2092.6	2030.6	1995.7	1949.2	1945.3
12.5°	2468.4	2437.4	2410.3	2342.5	2268.9	2146.8	1929.8	1703.1	1563.6	1453.2	1460.9
15°	2598.3	2569.2	2526.6	2423.9	2272.7	1955.0	1501.6	1152.8	982.3	891.3	887.4
17.5°	2739.7	2697.1	2627.3	2487.8	2150.7	1493.9	976.5	689.8	600.6	569.6	561.9
20°	2871.4	2819.1	2731.9	2501.4	1798.0	1011.4	610.3	534.8	519.3	509.6	509.6
22.5°	3011.0	2945.1	2815.3	2396.7	1336.9	647.1	519.3	501.8	490.2	476.6	474.7
25°	3152.4	3067.1	2890.8	2123.6	875.8	509.6	486.3	466.9	445.6	424.3	418.5
27.5°	3272.5	3162.1	2949.0	1716.7	561.9	459.2	443.7	410.8	381.7	358.4	354.6
30°	3415.9	3274.5	2974.1	1255.5	441.8	404.9	381.7	346.8	311.9	288.7	280.9
32.5°	3607.7	3452.7	2935.4	817.6	391.4	356.5	319.7	279.0	244.1	218.9	215.1
35°	3906.1	3722.0	2757.1	521.2	354.6	308.1	263.5	220.9	191.8	172.4	168.6
37.5°	4270.4	4099.9	2464.6	391.4	317.8	267.4	215.1	174.4	153.1	139.5	135.6
40°	4810.9	4572.6	2102.2	342.9	280.9	226.7	176.3	143.4	127.9	116.3	112.4
42.5°	5512.3	5130.6	1685.7	311.9	246.1	189.9	143.4	118.2	104.6	96.9	94.9
45°	6331.9	5675.1	1245.8	280.9	213.1	156.9	118.2	96.9	87.2	81.4	79.4
47.5°	7170.9	6151.7	860.3	248.0	182.1	129.8	98.8	83.3	75.6	67.8	65.9
50°	8066.0	6554.7	587.1	215.1	155.0	106.6	85.3	75.6	65.9	60.1	58.1
52.5°	8722.8	6703.9	408.8	186.0	131.8	91.1	75.6	67.8	60.1	52.3	50.4
55°	9329.3	6700.0	310.0	156.9	112.4	79.4	67.8	60.1	52.3	46.5	44.6
57.5°	9933.8	6647.7	244.1	133.7	96.9	71.7	60.1	52.3	48.4	40.7	38.8
60°	10325.2	6450.1	189.9	112.4	83.3	62.0	52.3	46.5	40.7	34.9	32.9
62.5°	10532.5	6175.0	145.3	89.1	67.8	54.3	46.5	40.7	34.9	29.1	27.1
65°	10251.6	5686.7	114.3	69.8	52.3	46.5	38.8	32.9	27.1	21.3	19.4
67.5°	9005.7	4795.4	89.1	56.2	40.7	34.9	32.9	27.1	19.4	15.5	13.6
70°	6364.8	3284.1	69.8	42.6	31.0	27.1	25.2	21.3	15.5	11.6	9.7
72.5°	3493.4	1656.6	50.4	31.0	23.3	21.3	19.4	17.4	13.6	9.7	9.7
75°	1344.7	455.3	36.8	21.3	15.5	15.5	13.6	13.6	11.6	7.8	7.8
77.5°	350.7	135.6	23.3	13.6	9.7	9.7	9.7	7.8	7.8	5.8	5.8
80°	112.4	44.6	13.6	9.7	7.8	5.8	5.8	3.9	5.8	3.9	3.9
82.5°	36.8	15.5	7.8	7.8	5.8	3.9	3.9	1.9	1.9	0.0	0.0
85°	13.6	7.8	5.8	3.9	3.9	3.9	1.9	0.0	0.0	0.0	0.0
87.5°	7.8	3.9	3.9	3.9	3.9	1.9	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)