

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: P637487

Luminaire Tested: GWS-SA4C-830-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-830-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12149.9 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

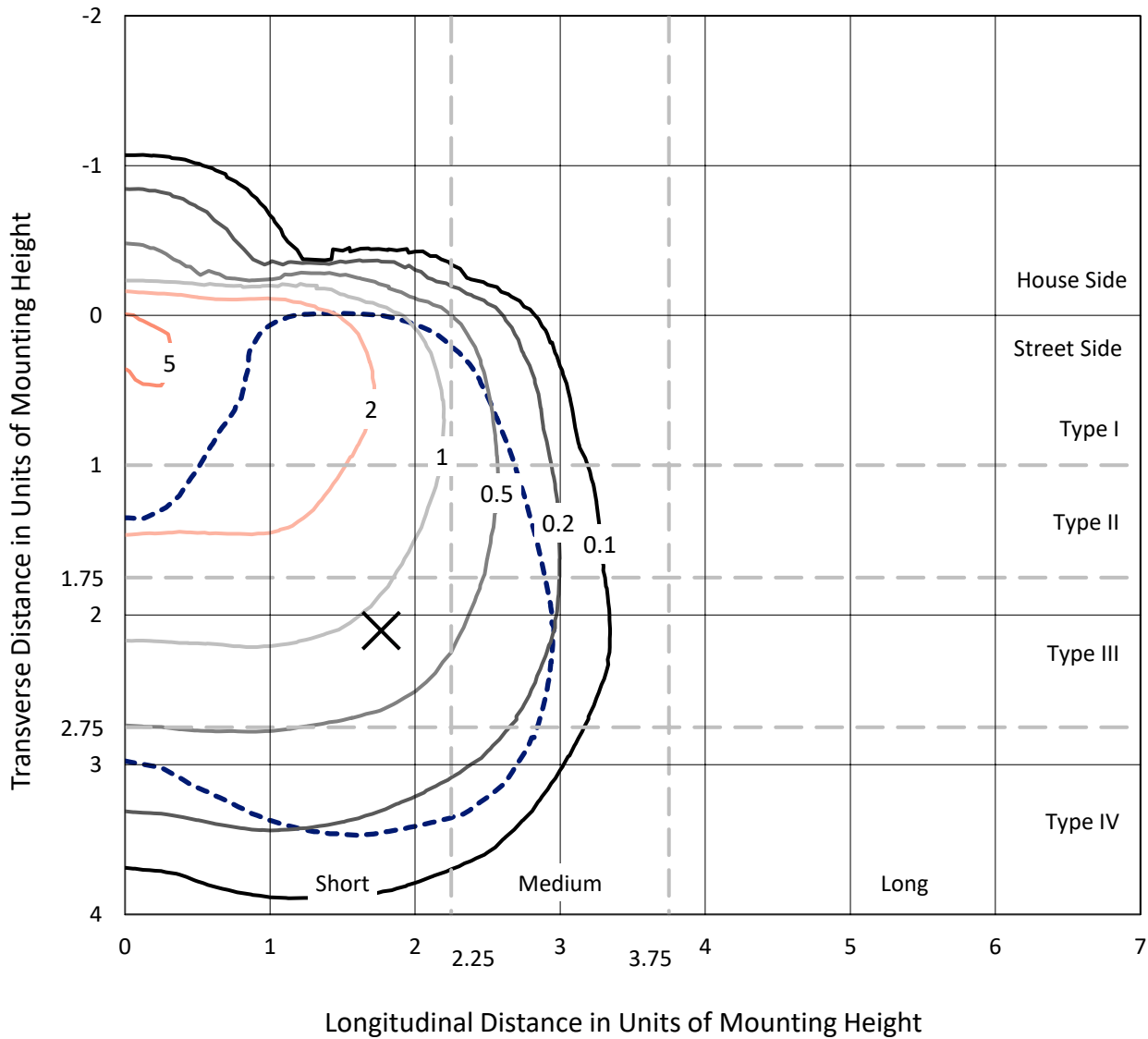
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

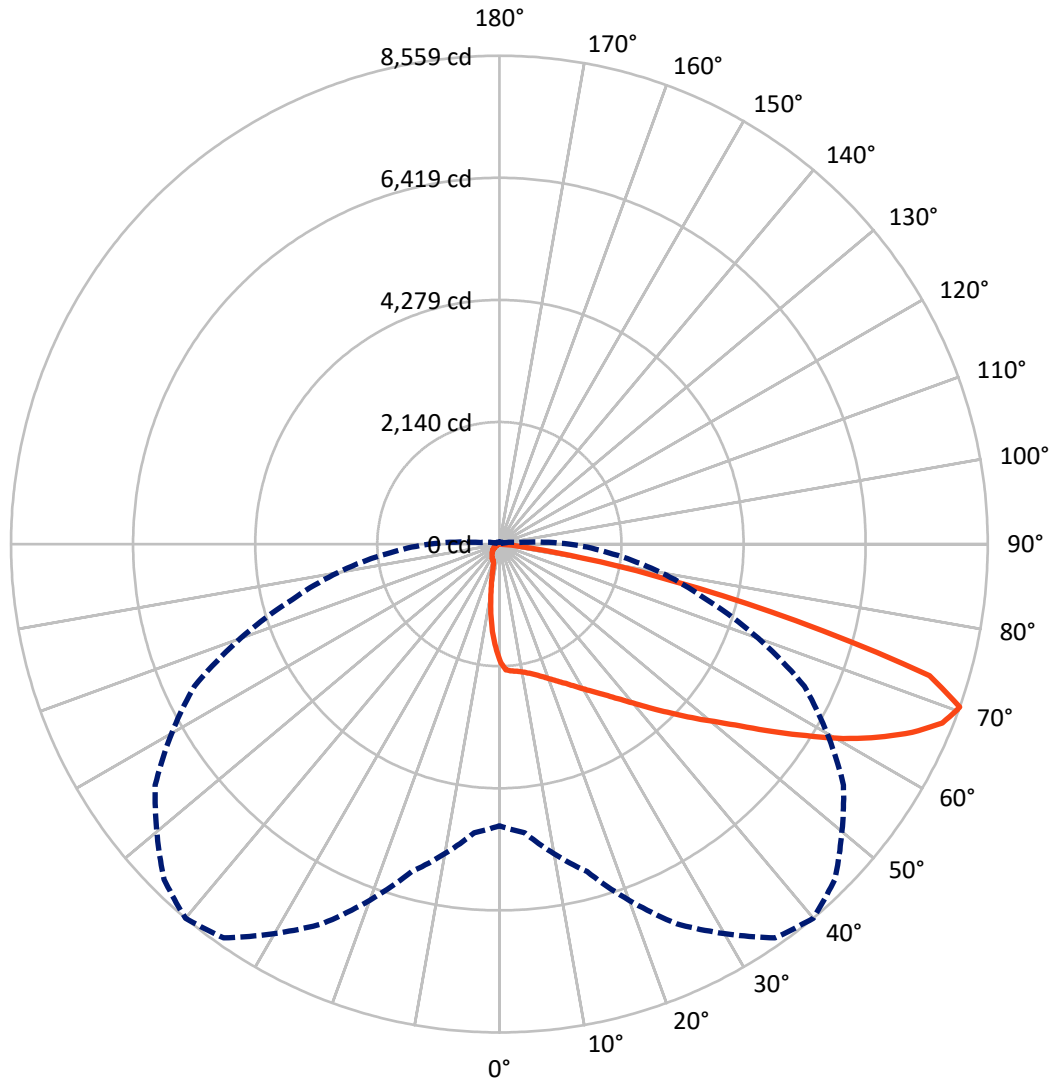
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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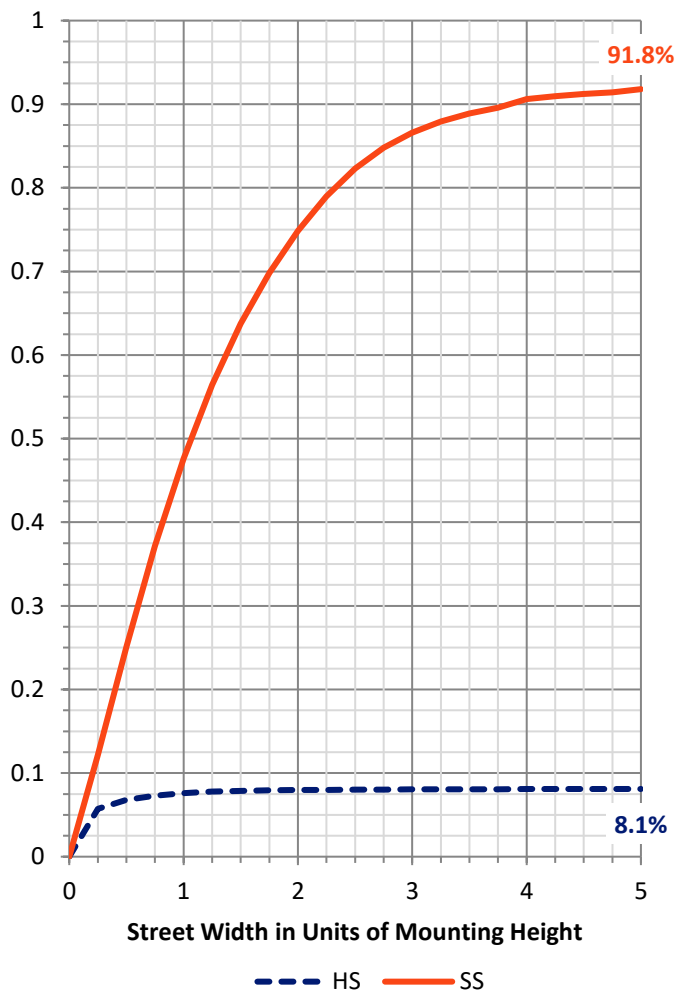
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	993.6	0.0	993.6
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	11156.3	0.0	11156.3
	% Fixture	91.8	0.0	91.8
Total	Lumens	12149.9	0.0	12149.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	1.4
10°-20°	441.9	3.6
20°-30°	739.7	6.1
30°-40°	1161.8	9.6
40°-50°	1837.6	15.1
50°-60°	2680.6	22.1
60°-70°	3323.0	27.4
70°-80°	1681.3	13.8
80°-90°	109.7	0.9
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°	12149.9	100.0
0°-180°	12149.9	100.0

Coefficient of Utilization



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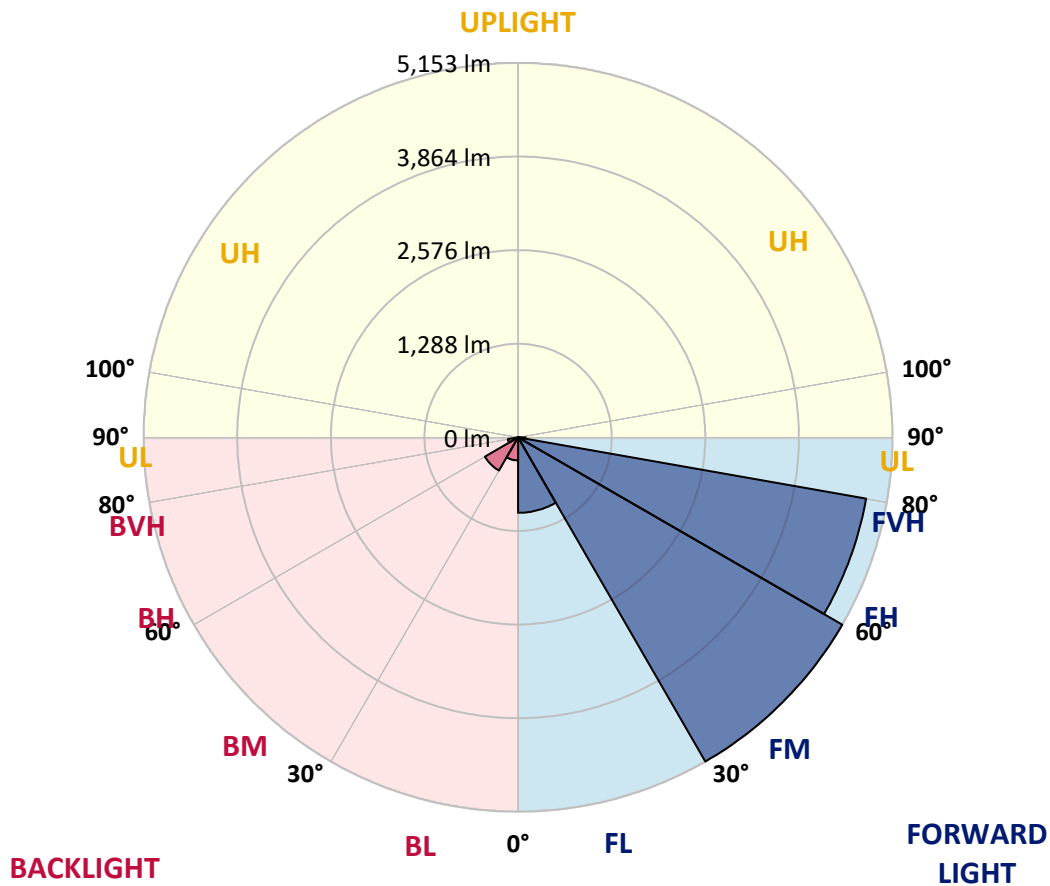
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1038.6	8.5			
FM (30°-60°)	5152.6	42.4			
FH (60°-80°)	4862.6	40.0			G2/5000
FVH (80°-90°)	102.5	0.8			G2/225
BL (0°-30°)	317.3	2.6	B1/500		
BM (30°-60°)	527.4	4.3	B1/1000		
BH (60°-80°)	141.7	1.2	B1/500		G1/500
BVH (80°-90°)	7.2	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7
2.5°	2216.5	2224.2	2223.1	2226.4	2218.7	2206.5	2204.3	2187.7	2157.9	2120.3	2078.3
5°	2261.8	2270.6	2264.0	2260.7	2246.3	2233.0	2229.7	2212.0	2177.8	2126.9	2054.0
7.5°	2300.5	2302.7	2298.3	2290.5	2269.5	2251.8	2239.7	2215.4	2174.4	2123.6	2039.6
10°	2307.1	2306.0	2308.2	2309.3	2296.1	2280.6	2270.6	2237.5	2185.5	2131.3	2040.7
12.5°	2299.4	2299.4	2313.7	2330.3	2330.3	2322.6	2312.6	2282.8	2222.0	2157.9	2062.8
15°	2309.3	2312.6	2340.3	2371.2	2381.2	2373.4	2369.0	2338.1	2275.0	2204.3	2102.6
17.5°	2344.7	2348.0	2392.2	2438.7	2450.8	2442.0	2433.1	2402.2	2334.7	2257.4	2147.9
20°	2396.6	2405.5	2461.9	2521.6	2532.6	2521.6	2503.9	2460.8	2393.3	2314.8	2191.0
22.5°	2491.7	2497.2	2558.0	2621.1	2626.6	2608.9	2582.4	2522.7	2451.9	2375.6	2239.7
25°	2617.7	2625.5	2686.3	2747.1	2732.7	2706.2	2669.7	2602.3	2521.6	2447.5	2301.6
27.5°	2768.1	2776.9	2836.6	2889.7	2852.1	2821.1	2780.2	2696.2	2614.4	2547.0	2381.2
30°	2930.6	2938.3	2991.4	3038.9	2989.2	2952.7	2904.1	2817.8	2734.9	2684.1	2493.9
32.5°	3087.6	3086.5	3137.3	3176.0	3125.1	3096.4	3052.2	2964.9	2898.5	2876.4	2662.0
35°	3233.5	3233.5	3275.5	3314.2	3277.7	3262.2	3221.3	3151.7	3114.1	3140.6	2886.4
37.5°	3380.5	3372.8	3412.6	3455.7	3452.4	3453.5	3430.3	3397.1	3399.3	3493.3	3194.8
40°	3502.1	3498.8	3545.2	3601.6	3645.8	3681.2	3666.8	3679.0	3748.6	3924.4	3589.4
42.5°	3599.4	3607.1	3666.8	3756.4	3868.0	3939.9	3949.8	3999.6	4178.7	4450.6	4034.9
45°	3711.0	3712.2	3795.1	3932.1	4110.1	4224.0	4263.8	4392.0	4646.3	4996.7	4523.6
47.5°	3848.1	3834.9	3927.7	4120.1	4377.6	4545.7	4616.4	4776.7	5170.3	5529.5	4921.5
50°	3999.6	3975.3	4080.3	4342.3	4677.2	4887.3	5031.0	5265.3	5689.8	5967.3	5217.8
52.5°	4175.3	4152.1	4271.5	4597.6	5036.5	5291.9	5476.5	5713.0	6135.3	6301.2	5394.7
55°	4398.6	4375.4	4501.5	4903.8	5461.0	5792.6	5986.1	6185.1	6549.9	6547.7	5522.9
57.5°	4646.3	4614.2	4788.9	5290.8	5990.5	6335.4	6532.2	6629.5	6864.9	6738.9	5609.1
60°	4930.4	4901.6	5143.7	5751.7	6601.8	6921.3	7045.1	7005.3	7123.6	6851.7	5579.3
62.5°	5186.8	5173.6	5474.3	6240.4	7184.4	7454.2	7488.4	7314.9	7313.8	6853.9	5378.1
65°	5453.3	5478.7	5925.3	6803.0	7770.3	7951.6	7893.0	7622.2	7390.0	6583.0	4783.3
67.5°	5552.8	5626.8	6222.7	7311.5	8232.4	8373.9	8271.1	7775.8	7072.8	5672.1	3642.5
70°	4938.1	5077.4	5941.9	7340.3	8423.6	8558.5	8312.0	7362.4	5896.6	3757.5	1995.4
72.5°	3755.3	3917.8	4951.4	6010.4	7575.8	7883.1	7461.9	5998.3	3800.6	1646.0	669.9
75°	2101.5	2277.3	3687.8	4525.8	5086.2	5367.0	5212.3	3848.1	1683.6	430.0	200.1
77.5°	710.8	769.4	1715.7	2800.1	3357.3	3105.3	2628.8	1911.3	619.1	163.6	106.1
80°	421.2	443.3	639.0	1394.0	1766.5	1464.7	1156.3	706.4	315.1	87.3	74.1
82.5°	126.0	149.2	352.6	517.4	692.0	431.1	364.8	403.5	163.6	47.5	61.9
85°	0.0	0.0	75.2	160.3	181.3	70.7	70.7	228.8	29.8	19.9	45.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.5	3.3	4.4	9.9
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°	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7	2061.7
2.5°	2048.4	2009.7	1964.4	1921.3	1880.4	1827.3	1801.9	1771.0	1744.4	1730.1	1737.8
5°	2007.5	1946.7	1853.9	1759.9	1664.8	1575.3	1494.6	1440.4	1391.8	1366.4	1371.9
7.5°	1972.1	1890.3	1745.5	1591.9	1439.3	1285.7	1160.7	1063.5	988.3	957.3	951.8
10°	1956.7	1853.9	1649.4	1428.3	1193.9	987.2	810.3	703.1	626.8	589.2	595.8
12.5°	1964.4	1835.1	1567.5	1268.0	964.0	723.0	553.8	453.2	399.1	377.0	371.4
15°	1986.5	1830.7	1494.6	1104.4	744.0	505.2	382.5	341.6	330.5	328.3	328.3
17.5°	2011.9	1831.8	1419.4	938.5	564.9	374.8	327.2	319.5	316.2	314.0	315.1
20°	2037.4	1831.8	1333.2	770.5	424.5	323.9	311.7	306.2	302.9	301.8	301.8
22.5°	2068.3	1831.8	1237.0	614.6	340.5	307.3	297.4	294.1	290.7	289.6	288.5
25°	2105.9	1832.9	1130.9	480.9	309.5	292.9	285.2	281.9	278.6	276.4	276.4
27.5°	2160.1	1841.7	1013.7	374.8	291.8	279.7	273.0	269.7	266.4	263.1	263.1
30°	2238.6	1863.8	882.2	309.5	275.3	265.3	258.7	256.5	253.2	249.8	248.7
32.5°	2355.7	1902.5	746.2	277.5	259.8	249.8	242.1	239.9	236.6	233.3	232.1
35°	2519.4	1973.3	613.5	257.6	239.9	229.9	225.5	224.4	220.0	216.7	216.7
37.5°	2759.2	2088.2	486.4	237.7	223.3	215.6	210.0	207.8	203.4	200.1	199.0
40°	3052.2	2237.5	378.1	222.2	207.8	200.1	194.6	191.2	185.7	181.3	179.1
42.5°	3425.8	2419.9	298.5	205.6	193.5	185.7	181.3	174.7	166.9	160.3	159.2
45°	3815.0	2607.8	246.5	190.1	180.2	173.6	168.0	159.2	148.1	140.4	138.2
47.5°	4113.4	2725.0	215.6	173.6	165.8	160.3	153.7	142.6	129.3	120.5	118.3
50°	4326.8	2742.7	192.4	158.1	153.7	148.1	138.2	124.9	110.5	101.7	99.5
52.5°	4431.8	2663.1	173.6	143.7	140.4	134.9	122.7	108.3	92.9	84.0	81.8
55°	4479.3	2512.7	155.9	131.6	127.1	120.5	107.2	91.8	76.3	68.5	66.3
57.5°	4460.6	2290.5	140.4	119.4	113.9	106.1	91.8	75.2	63.0	55.3	54.2
60°	4321.3	1978.8	124.9	107.2	100.6	91.8	77.4	61.9	50.9	45.3	44.2
62.5°	4020.6	1591.9	109.4	92.9	88.4	79.6	66.3	50.9	42.0	38.7	37.6
65°	3404.8	1125.4	94.0	78.5	76.3	67.4	55.3	42.0	36.5	34.3	33.2
67.5°	2447.5	684.3	79.6	67.4	65.2	57.5	46.4	36.5	33.2	32.1	32.1
70°	1230.4	323.9	63.0	55.3	55.3	47.5	39.8	33.2	32.1	31.0	31.0
72.5°	417.9	138.2	47.5	43.1	45.3	40.9	34.3	31.0	31.0	31.0	31.0
75°	142.6	73.0	33.2	31.0	33.2	33.2	29.8	29.8	31.0	31.0	31.0
77.5°	92.9	48.6	23.2	21.0	25.4	25.4	25.4	27.6	29.8	29.8	29.8
80°	76.3	26.5	15.5	14.4	18.8	18.8	21.0	25.4	27.6	27.6	27.6
82.5°	65.2	16.6	8.8	9.9	13.3	14.4	17.7	21.0	24.3	25.4	25.4
85°	44.2	8.8	6.6	7.7	8.8	11.1	14.4	17.7	19.9	22.1	22.1
87.5°	12.2	3.3	4.4	5.5	5.5	7.7	11.1	13.3	15.5	16.6	16.6
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)