

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: P641942

Luminaire Tested: GWS-SA6B-830-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641942
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-SA6B-830-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13252.1 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

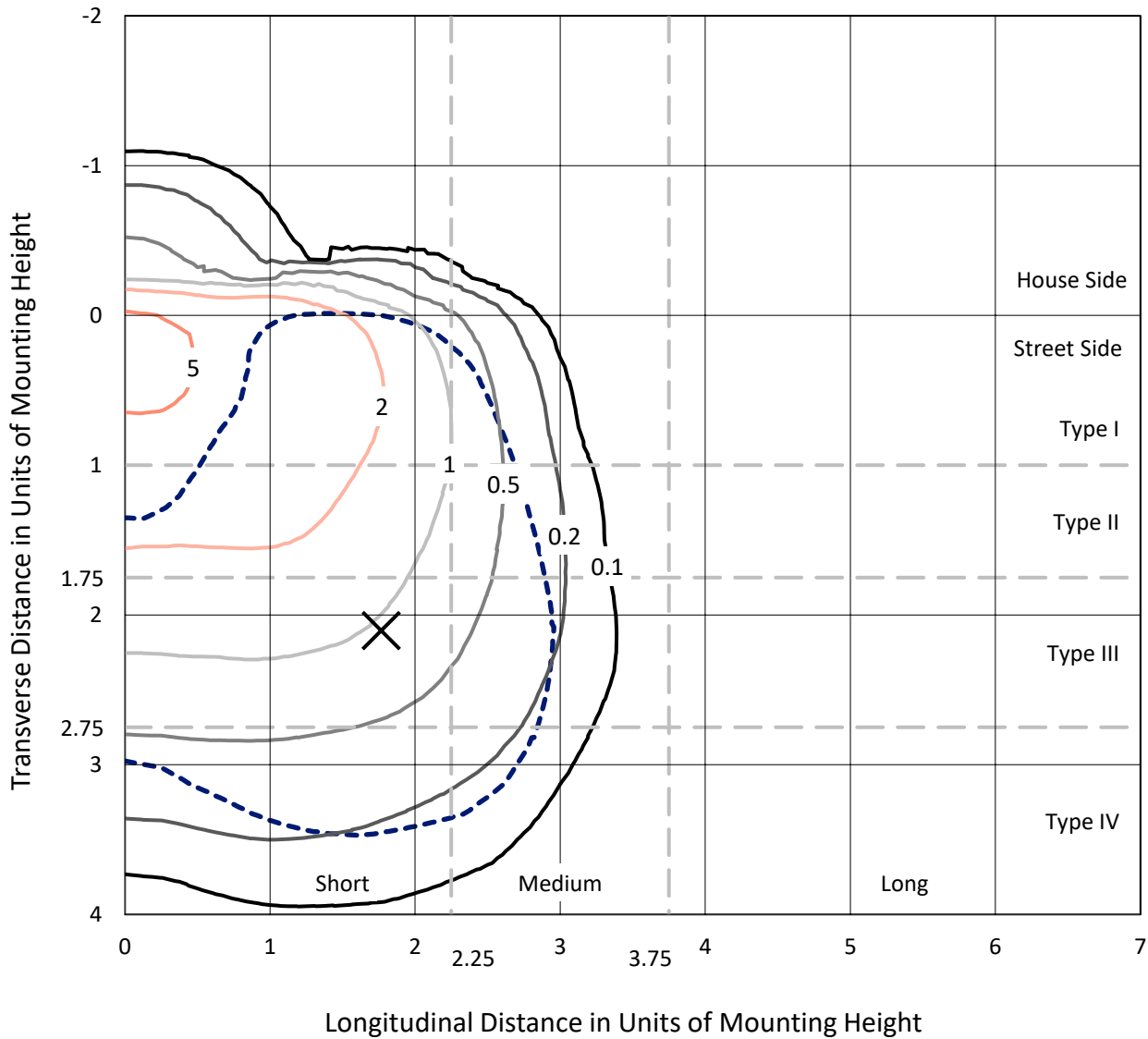
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

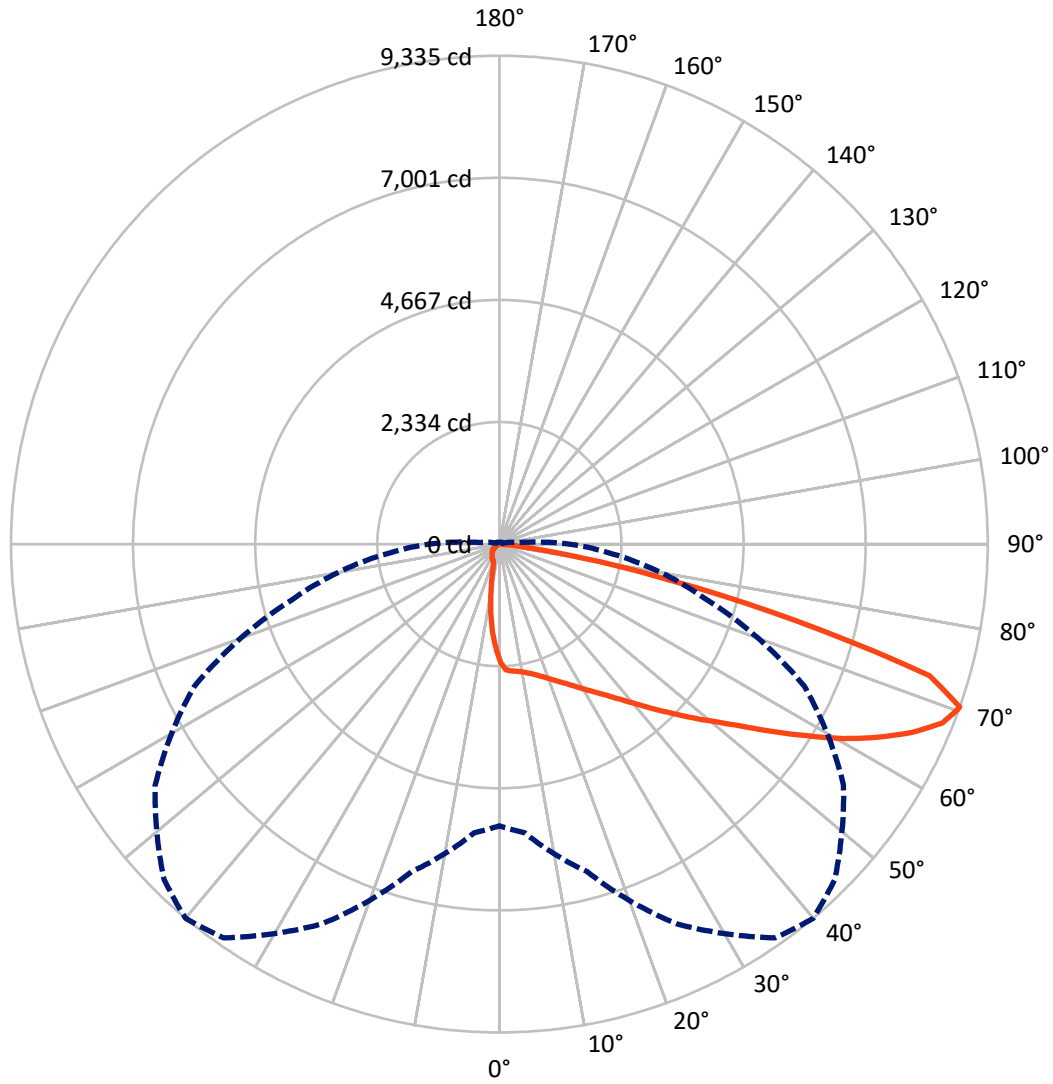
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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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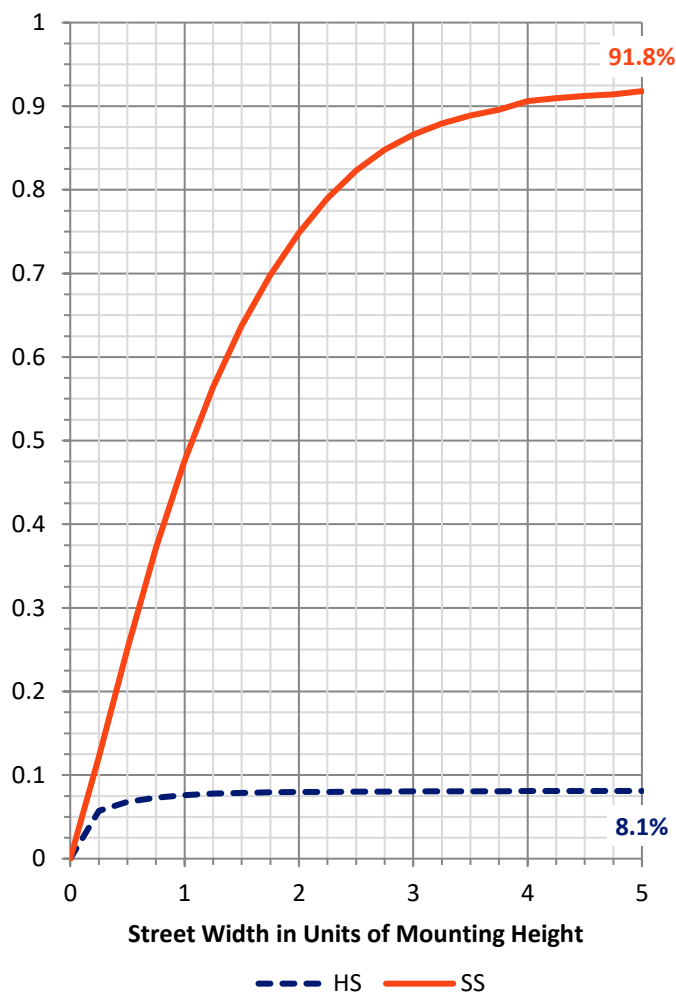
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1083.7	0.0	1083.7
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	12168.4	0.0	12168.4
	% Fixture	91.8	0.0	91.8
Total	Lumens	13252.1	0.0	13252.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	1.4
10°-20°	482.0	3.6
20°-30°	806.8	6.1
30°-40°	1267.1	9.6
40°-50°	2004.3	15.1
50°-60°	2923.8	22.1
60°-70°	3624.5	27.4
70°-80°	1833.8	13.8
80°-90°	119.7	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°	13252.1	100.0
0°-180°	13252.1	100.0

Coefficient of Utilization



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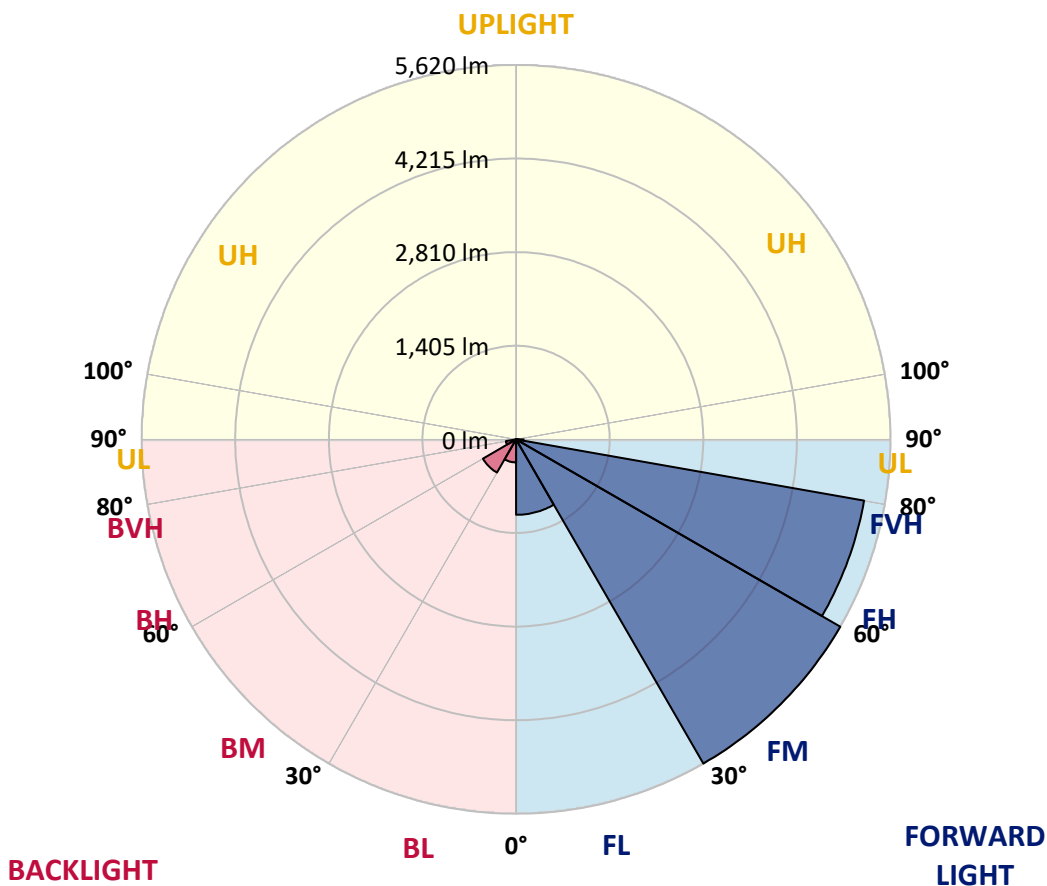
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.8	8.5			
FM (30°-60°)	5620.1	42.4			
FH (60°-80°)	5303.7	40.0			G3/7500
FVH (80°-90°)	111.8	0.8			G2/225
BL (0°-30°)	346.1	2.6	B1/500		
BM (30°-60°)	575.2	4.3	B1/1000		
BH (60°-80°)	154.5	1.2	B1/500		G1/500
BVH (80°-90°)	7.9	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7
2.5°	2417.5	2426.0	2424.8	2428.4	2419.9	2406.7	2404.3	2386.2	2353.6	2312.6	2266.8
5°	2467.0	2476.6	2469.4	2465.8	2450.1	2435.6	2432.0	2412.7	2375.3	2319.9	2240.3
7.5°	2509.2	2511.6	2506.8	2498.3	2475.4	2456.1	2442.8	2416.3	2371.7	2316.2	2224.6
10°	2516.4	2515.2	2517.6	2518.8	2504.3	2487.5	2476.6	2440.4	2383.8	2324.7	2225.8
12.5°	2508.0	2508.0	2523.6	2541.7	2541.7	2533.3	2522.4	2489.9	2423.6	2353.6	2249.9
15°	2518.8	2522.4	2552.6	2586.3	2597.2	2588.7	2583.9	2550.2	2481.4	2404.3	2293.3
17.5°	2557.4	2561.0	2609.2	2659.9	2673.1	2663.5	2653.9	2620.1	2546.5	2462.1	2342.8
20°	2614.1	2623.7	2685.2	2750.3	2762.4	2750.3	2731.0	2684.0	2610.4	2524.8	2389.8
22.5°	2717.8	2723.8	2790.1	2858.8	2864.9	2845.6	2816.6	2751.5	2674.4	2591.2	2442.8
25°	2855.2	2863.7	2930.0	2996.3	2980.6	2951.7	2911.9	2838.3	2750.3	2669.5	2510.4
27.5°	3019.2	3028.8	3094.0	3151.8	3110.8	3077.1	3032.5	2940.8	2851.6	2778.0	2597.2
30°	3196.4	3204.9	3262.8	3314.6	3260.3	3220.6	3167.5	3073.5	2983.0	2927.6	2720.2
32.5°	3367.7	3366.5	3421.9	3464.1	3408.7	3377.3	3329.1	3233.8	3161.5	3137.4	2903.4
35°	3526.8	3526.8	3572.6	3614.8	3575.0	3558.2	3513.6	3437.6	3396.6	3425.5	3148.2
37.5°	3687.2	3678.7	3722.1	3769.2	3765.6	3766.8	3741.4	3705.3	3707.7	3810.2	3484.6
40°	3819.8	3816.2	3866.8	3928.3	3976.6	4015.1	3999.5	4012.7	4088.7	4280.4	3915.1
42.5°	3925.9	3934.4	3999.5	4097.1	4218.9	4297.3	4308.1	4362.4	4557.7	4854.3	4401.0
45°	4047.7	4048.9	4139.3	4288.9	4483.0	4607.2	4650.6	4790.4	5067.8	5450.0	4933.9
47.5°	4197.2	4182.7	4284.0	4493.8	4774.8	4958.0	5035.2	5210.0	5639.3	6031.2	5368.0
50°	4362.4	4335.9	4450.4	4736.2	5101.5	5330.6	5487.4	5743.0	6206.0	6508.6	5691.1
52.5°	4554.1	4528.8	4659.0	5014.7	5493.4	5771.9	5973.3	6231.3	6691.9	6872.8	5884.1
55°	4797.7	4772.4	4909.8	5348.7	5956.4	6318.1	6529.1	6746.2	7144.1	7141.7	6023.9
57.5°	5067.8	5032.8	5223.3	5770.7	6534.0	6910.1	7124.8	7230.9	7487.7	7350.2	6118.0
60°	5377.6	5346.3	5610.4	6273.5	7200.7	7549.2	7684.2	7640.8	7769.8	7473.2	6085.4
62.5°	5657.4	5642.9	5970.9	6806.5	7836.2	8130.4	8167.7	7978.4	7977.2	7475.6	5866.0
65°	5948.0	5975.7	6462.8	7420.2	8475.2	8673.0	8609.1	8313.6	8060.4	7180.2	5217.3
67.5°	6056.5	6137.3	6787.2	7974.8	8979.2	9133.6	9021.4	8481.2	7714.4	6186.7	3972.9
70°	5386.1	5538.0	6480.9	8006.2	9187.8	9334.9	9066.0	8030.3	6431.5	4098.3	2176.4
72.5°	4095.9	4273.2	5400.6	6555.7	8263.0	8598.2	8138.8	6542.4	4145.4	1795.4	730.7
75°	2292.1	2483.8	4022.4	4936.3	5547.7	5853.9	5685.1	4197.2	1836.4	469.0	218.2
77.5°	775.3	839.2	1871.3	3054.2	3661.9	3386.9	2867.3	2084.7	675.2	178.5	115.8
80°	459.4	483.5	696.9	1520.4	1926.8	1597.6	1261.2	770.5	343.6	95.3	80.8
82.5°	137.5	162.8	384.6	564.3	754.8	470.2	397.9	440.1	178.5	51.8	67.5
85°	0.0	0.0	82.0	174.8	197.7	77.2	77.2	249.6	32.6	21.7	49.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	6.0	3.6	4.8	10.9
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°	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7
2.5°	2234.3	2192.1	2142.6	2095.6	2051.0	1993.1	1965.4	1931.6	1902.7	1887.0	1895.4
5°	2189.6	2123.3	2022.0	1919.6	1815.9	1718.2	1630.2	1571.1	1518.0	1490.3	1496.3
7.5°	2151.1	2061.8	1903.9	1736.3	1569.9	1402.3	1266.0	1159.9	1077.9	1044.2	1038.2
10°	2134.2	2022.0	1799.0	1557.8	1302.2	1076.7	883.8	766.9	683.7	642.7	649.9
12.5°	2142.6	2001.5	1709.8	1383.0	1051.4	788.6	604.1	494.4	435.3	411.2	405.1
15°	2166.7	1996.7	1630.2	1204.5	811.5	551.0	417.2	372.6	360.5	358.1	358.1
17.5°	2194.5	1997.9	1548.2	1023.7	616.1	408.7	356.9	348.5	344.8	342.4	343.6
20°	2222.2	1997.9	1454.1	840.4	463.0	353.3	340.0	334.0	330.4	329.2	329.2
22.5°	2256.0	1997.9	1349.2	670.4	371.4	335.2	324.3	320.7	317.1	315.9	314.7
25°	2297.0	1999.1	1233.5	524.5	337.6	319.5	311.1	307.5	303.8	301.4	301.4
27.5°	2356.0	2008.8	1105.7	408.7	318.3	305.1	297.8	294.2	290.6	287.0	287.0
30°	2441.6	2032.9	962.2	337.6	300.2	289.4	282.1	279.7	276.1	272.5	271.3
32.5°	2569.5	2075.1	813.9	302.6	283.4	272.5	264.1	261.6	258.0	254.4	253.2
35°	2747.9	2152.3	669.2	280.9	261.6	250.8	246.0	244.8	239.9	236.3	236.3
37.5°	3009.6	2277.7	530.5	259.2	243.6	235.1	229.1	226.7	221.9	218.2	217.0
40°	3329.1	2440.4	412.4	242.4	226.7	218.2	212.2	208.6	202.6	197.7	195.3
42.5°	3736.6	2639.4	325.6	224.3	211.0	202.6	197.7	190.5	182.1	174.8	173.6
45°	4161.0	2844.4	268.9	207.4	196.5	189.3	183.3	173.6	161.6	153.1	150.7
47.5°	4486.6	2972.2	235.1	189.3	180.9	174.8	167.6	155.5	141.1	131.4	129.0
50°	4719.3	2991.5	209.8	172.4	167.6	161.6	150.7	136.2	120.6	110.9	108.5
52.5°	4833.8	2904.7	189.3	156.7	153.1	147.1	133.8	118.2	101.3	91.6	89.2
55°	4885.7	2740.7	170.0	143.5	138.7	131.4	117.0	100.1	83.2	74.8	72.3
57.5°	4865.2	2498.3	153.1	130.2	124.2	115.8	100.1	82.0	68.7	60.3	59.1
60°	4713.3	2158.3	136.2	117.0	109.7	100.1	84.4	67.5	55.5	49.4	48.2
62.5°	4385.3	1736.3	119.4	101.3	96.5	86.8	72.3	55.5	45.8	42.2	41.0
65°	3713.7	1227.5	102.5	85.6	83.2	73.6	60.3	45.8	39.8	37.4	36.2
67.5°	2669.5	746.4	86.8	73.6	71.1	62.7	50.6	39.8	36.2	35.0	35.0
70°	1342.0	353.3	68.7	60.3	60.3	51.8	43.4	36.2	35.0	33.8	33.8
72.5°	455.8	150.7	51.8	47.0	49.4	44.6	37.4	33.8	33.8	33.8	33.8
75°	155.5	79.6	36.2	33.8	36.2	36.2	32.6	32.6	33.8	33.8	33.8
77.5°	101.3	53.1	25.3	22.9	27.7	27.7	27.7	30.1	32.6	32.6	32.6
80°	83.2	28.9	16.9	15.7	20.5	20.5	22.9	27.7	30.1	30.1	30.1
82.5°	71.1	18.1	9.6	10.9	14.5	15.7	19.3	22.9	26.5	27.7	27.7
85°	48.2	9.6	7.2	8.4	9.6	12.1	15.7	19.3	21.7	24.1	24.1
87.5°	13.3	3.6	4.8	6.0	6.0	8.4	12.1	14.5	16.9	18.1	18.1
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)