

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: P639215

Luminaire Tested: GWS-SA5B-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-735-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10983.7 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

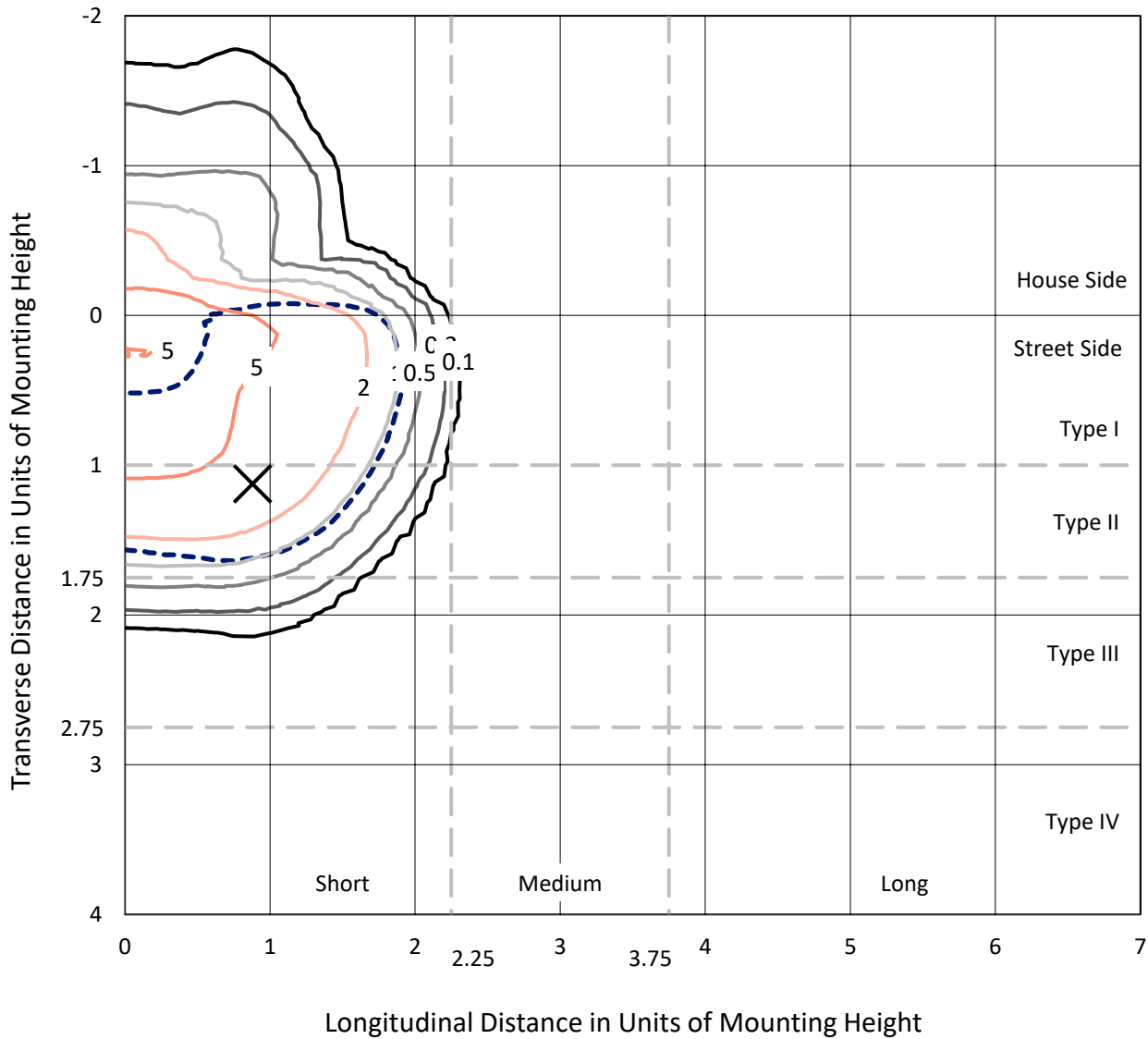
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

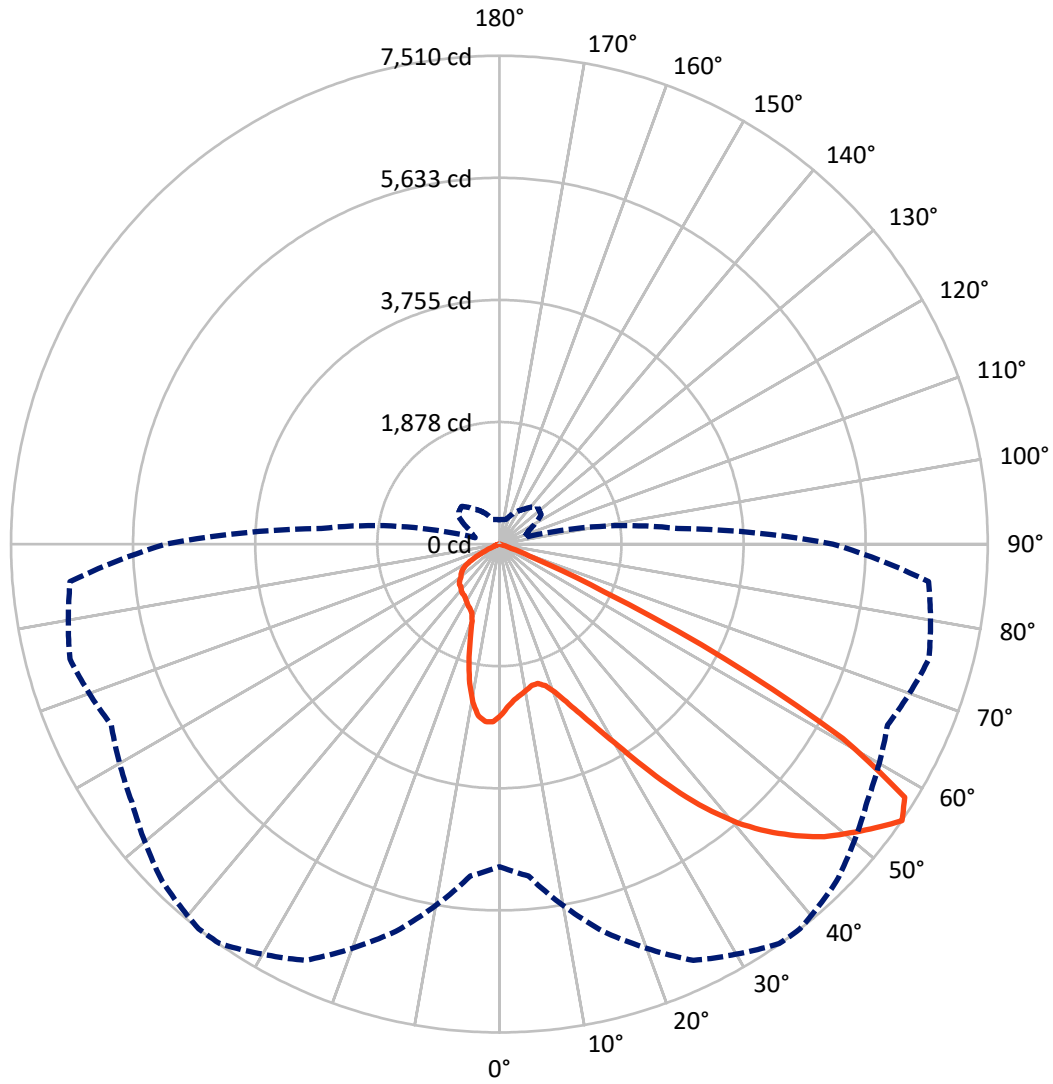
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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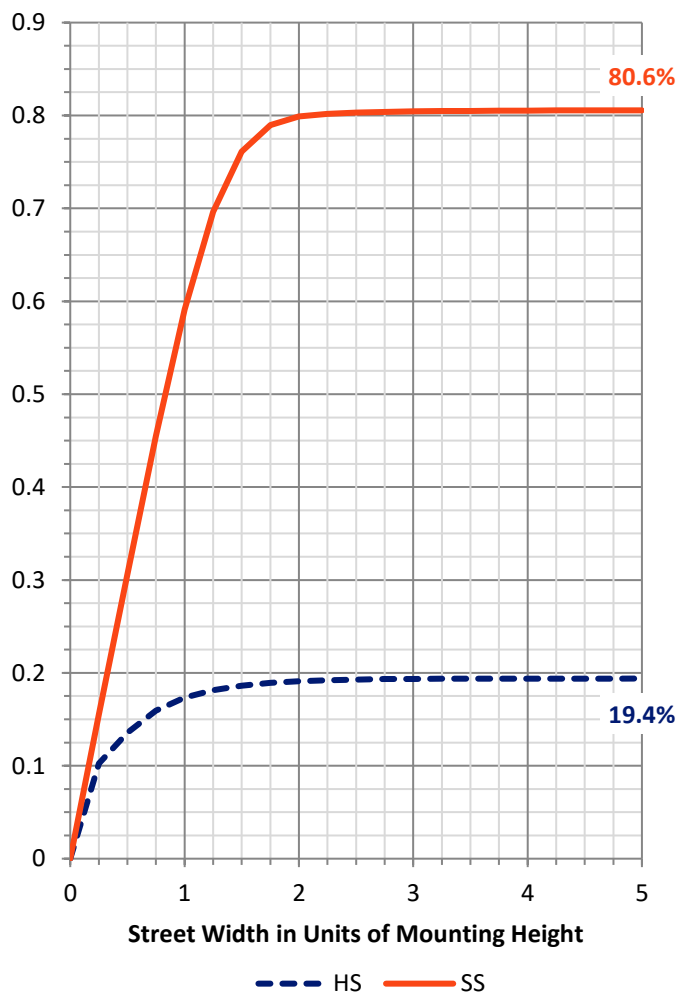
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2140.0	0.0	2140.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	8843.7	0.0	8843.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	10983.7	0.0	10983.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	2.2
10°-20°	655.7	6.0
20°-30°	1125.1	10.2
30°-40°	1866.1	17.0
40°-50°	2743.3	25.0
50°-60°	3205.6	29.2
60°-70°	1086.6	9.9
70°-80°	55.6	0.5
80°-90°	2.2	0.0
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°	10983.7	100.0
0°-180°	10983.7	100.0

Coefficient of Utilization

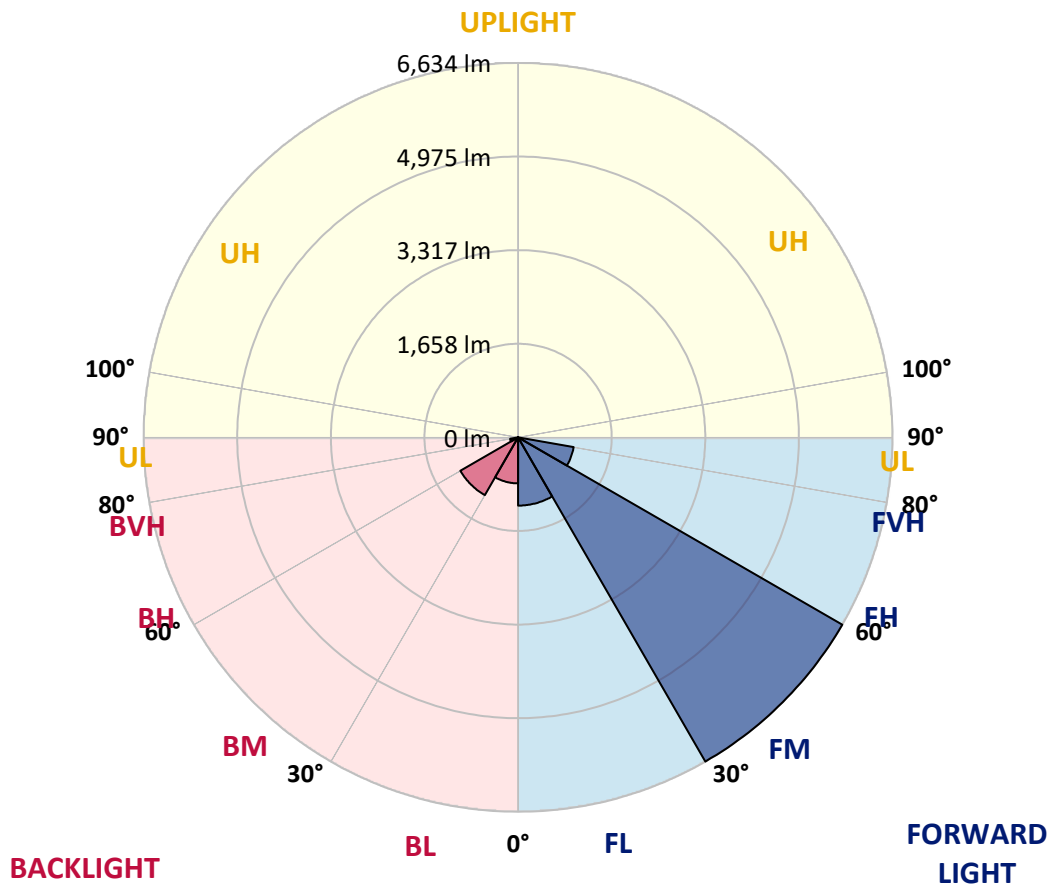


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1209.0	11.0			
FM (30°-60°)	6633.8	60.4			
FH (60°-80°)	999.7	9.1			G1/1800
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	815.3	7.4	B2/1000		
BM (30°-60°)	1181.2	10.8	B2/2500		
BH (60°-80°)	142.5	1.3	B1/500		G1/500
BVH (80°-90°)	1.0	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2634.0	2634.0	2634.0	2634.0	2634.0	2634.0	2634.0	2634.0	2634.0	2634.0	2634.0
2.5°	2453.2	2448.2	2458.2	2478.3	2497.1	2503.4	2522.2	2548.6	2564.9	2603.8	2635.2
5°	2342.7	2340.2	2350.2	2367.8	2392.9	2401.7	2430.6	2474.5	2518.5	2586.3	2652.8
7.5°	2242.3	2241.0	2256.1	2295.0	2331.4	2342.7	2377.9	2431.8	2490.9	2595.1	2693.0
10°	2110.4	2111.7	2140.6	2195.8	2262.4	2285.0	2341.5	2419.3	2495.9	2630.2	2765.8
12.5°	2067.8	2070.3	2085.3	2128.0	2200.8	2229.7	2308.8	2426.8	2524.7	2680.4	2860.0
15°	2172.0	2172.0	2159.4	2164.4	2197.1	2223.4	2306.3	2451.9	2573.7	2740.7	2952.9
17.5°	2374.1	2366.6	2335.2	2292.5	2281.2	2290.0	2356.5	2505.9	2642.8	2811.0	3058.3
20°	2647.8	2650.3	2588.8	2499.6	2428.1	2426.8	2467.0	2601.3	2741.9	2895.1	3172.6
22.5°	2979.2	2969.2	2887.6	2765.8	2641.5	2631.5	2647.8	2747.0	2885.1	3028.2	3313.2
25°	3363.4	3358.4	3242.9	3079.7	2915.2	2891.3	2891.3	2989.3	3089.7	3217.8	3481.4
27.5°	3765.2	3765.2	3653.4	3465.1	3246.6	3204.0	3197.7	3313.2	3379.7	3404.8	3623.3
30°	4178.2	4173.2	4062.7	3869.4	3635.8	3591.9	3574.3	3659.7	3707.4	3632.1	3800.3
32.5°	4597.5	4606.3	4494.6	4315.0	4106.6	4077.8	4023.8	4023.8	4062.7	3957.2	4079.0
35°	5048.2	5045.7	4957.8	4836.1	4657.8	4625.2	4536.0	4396.7	4455.7	4409.2	4464.5
37.5°	5446.2	5465.1	5422.4	5332.0	5187.6	5155.0	5008.1	4755.7	4800.9	4873.7	4922.7
40°	5850.5	5865.6	5908.2	5879.4	5697.3	5637.1	5375.9	4961.6	5011.8	5261.7	5402.3
42.5°	6247.2	6254.7	6341.4	6389.1	6145.5	6040.1	5654.6	5087.2	5139.9	5565.5	5811.6
45°	6499.6	6515.9	6659.0	6804.6	6541.0	6396.6	5896.9	5247.9	5270.5	5776.4	6114.1
47.5°	6489.5	6527.2	6795.9	7060.8	6881.2	6725.6	6188.2	5505.2	5467.6	5974.8	6313.8
50°	6287.4	6332.6	6718.0	7138.6	7126.0	6981.7	6512.1	5878.1	5760.1	6150.5	6338.9
52.5°	5868.1	5998.6	6581.2	7148.6	7323.2	7250.3	6912.6	6380.3	6155.6	6402.9	6379.0
55°	4961.6	5122.3	6165.6	7063.3	7501.4	7510.2	7333.2	6903.8	6584.9	6837.3	6626.4
57.5°	3766.4	3894.5	4745.7	6287.4	7206.4	7350.8	7496.4	7180.0	6849.8	7133.6	6684.1
60°	2269.9	2418.0	2971.7	4613.9	5820.4	6066.4	6637.7	6576.2	6178.2	6299.9	5481.4
62.5°	920.3	998.1	1372.2	2542.3	3663.5	3893.2	4440.6	4533.5	4435.6	4311.3	3324.5
65°	336.5	367.9	549.9	1050.8	1684.8	1769.0	2057.7	2222.2	2357.8	2007.5	1236.6
67.5°	208.4	228.5	357.8	539.9	612.7	570.0	580.0	691.8	660.4	408.0	221.0
70°	154.4	170.7	280.0	374.1	247.3	190.8	129.3	138.1	124.3	109.2	108.0
72.5°	106.7	121.8	209.7	221.0	95.4	67.8	47.7	66.5	75.3	74.1	76.6
75°	70.3	81.6	131.8	86.6	23.9	18.8	16.3	35.2	45.2	45.2	46.5
77.5°	41.4	47.7	46.5	17.6	5.0	5.0	3.8	6.3	10.0	11.3	13.8
80°	5.0	3.8	2.5	2.5	2.5	2.5	2.5	2.5	3.8	3.8	3.8
82.5°	1.3	1.3	1.3	2.5	2.5	2.5	2.5	2.5	2.5	3.8	3.8
85°	0.0	0.0	1.3	1.3	2.5	2.5	2.5	2.5	2.5	3.8	3.8
87.5°	0.0	0.0	1.3	1.3	2.5	2.5	2.5	2.5	2.5	3.8	3.8
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°	2634.0	2634.0	2634.0	2634.0	2634.0	2634.0	2634.0	2634.0	2634.0	2634.0	2634.0
2.5°	2659.1	2650.3	2686.7	2713.1	2734.4	2744.5	2730.6	2729.4	2729.4	2701.8	2694.2
5°	2690.5	2694.2	2745.7	2768.3	2772.1	2759.5	2728.1	2706.8	2694.2	2665.4	2649.0
7.5°	2750.7	2763.3	2812.3	2808.5	2774.6	2716.8	2634.0	2569.9	2528.5	2483.3	2455.7
10°	2837.4	2861.2	2891.3	2838.6	2730.6	2583.8	2413.0	2291.2	2218.4	2166.9	2135.6
12.5°	2942.8	2966.7	2956.6	2832.3	2607.6	2345.2	2125.5	1949.7	1865.6	1819.2	1786.5
15°	3049.5	3064.6	2999.3	2757.0	2390.4	2037.6	1792.8	1618.3	1515.4	1477.7	1450.1
17.5°	3158.8	3155.0	3006.8	2608.9	2100.4	1691.1	1450.1	1330.8	1301.9	1295.6	1293.1
20°	3273.0	3239.1	2976.7	2396.7	1751.4	1348.4	1211.5	1219.1	1271.8	1296.9	1301.9
22.5°	3403.6	3318.2	2901.4	2109.2	1394.8	1123.6	1137.5	1211.5	1283.1	1317.0	1322.0
25°	3542.9	3391.0	2775.8	1740.1	1099.8	1033.3	1114.9	1200.2	1276.8	1318.2	1323.3
27.5°	3634.6	3408.6	2569.9	1368.5	944.1	998.1	1084.7	1166.3	1245.4	1290.6	1296.9
30°	3733.8	3401.1	2290.0	1054.6	891.4	968.0	1043.3	1117.4	1190.2	1240.4	1245.4
32.5°	3879.4	3396.0	1948.5	856.2	870.0	944.1	999.4	1060.9	1111.1	1140.0	1136.2
35°	4070.2	3389.8	1550.5	772.1	857.5	925.3	969.2	998.1	942.9	925.3	929.0
37.5°	4315.0	3404.8	1215.3	737.0	853.7	920.3	957.9	875.1	789.7	757.0	752.0
40°	4586.2	3443.8	926.5	723.2	866.3	932.8	915.2	778.4	672.9	608.9	595.1
42.5°	4858.7	3486.4	733.2	718.1	887.6	968.0	844.9	708.1	549.9	513.5	508.5
45°	5060.8	3478.9	634.0	709.3	906.4	988.1	826.1	607.6	490.9	474.6	475.8
47.5°	5162.5	3396.0	580.0	689.3	914.0	968.0	779.6	566.2	450.7	468.3	483.4
50°	5108.5	3181.4	529.8	650.3	897.7	941.6	705.6	534.8	430.6	503.4	537.3
52.5°	5043.2	2917.7	474.6	590.1	858.7	905.2	676.7	526.0	418.1	485.9	511.0
55°	5129.8	2750.7	384.2	497.2	782.2	819.8	654.1	524.8	389.2	377.9	374.1
57.5°	5008.1	2418.0	274.9	357.8	600.1	649.1	637.8	516.0	345.3	344.0	349.0
60°	3870.6	1475.2	188.3	227.2	367.9	414.3	578.8	493.4	297.5	273.7	274.9
62.5°	2199.6	627.7	129.3	140.6	188.3	223.5	441.9	448.2	274.9	261.1	274.9
65°	765.8	224.7	100.4	94.2	104.2	119.3	253.6	346.5	249.8	226.0	228.5
67.5°	158.2	111.7	89.1	77.8	77.8	77.8	129.3	215.9	205.9	179.5	182.0
70°	100.4	95.4	77.8	66.5	64.0	59.0	74.1	119.3	141.9	130.6	131.8
72.5°	74.1	72.8	61.5	54.0	47.7	42.7	46.5	59.0	72.8	75.3	76.6
75°	45.2	46.5	40.2	33.9	30.1	26.4	27.6	27.6	27.6	25.1	27.6
77.5°	13.8	15.1	12.6	10.0	8.8	8.8	8.8	7.5	6.3	3.8	3.8
80°	3.8	3.8	3.8	3.8	3.8	2.5	2.5	1.3	1.3	0.0	0.0
82.5°	3.8	3.8	3.8	3.8	2.5	2.5	1.3	1.3	0.0	0.0	0.0
85°	3.8	3.8	3.8	3.8	2.5	2.5	1.3	1.3	0.0	0.0	0.0
87.5°	3.8	3.8	3.8	3.8	2.5	2.5	1.3	1.3	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)