

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: P637016

Luminaire Tested: GWS-SA4B-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-830-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10080.9 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

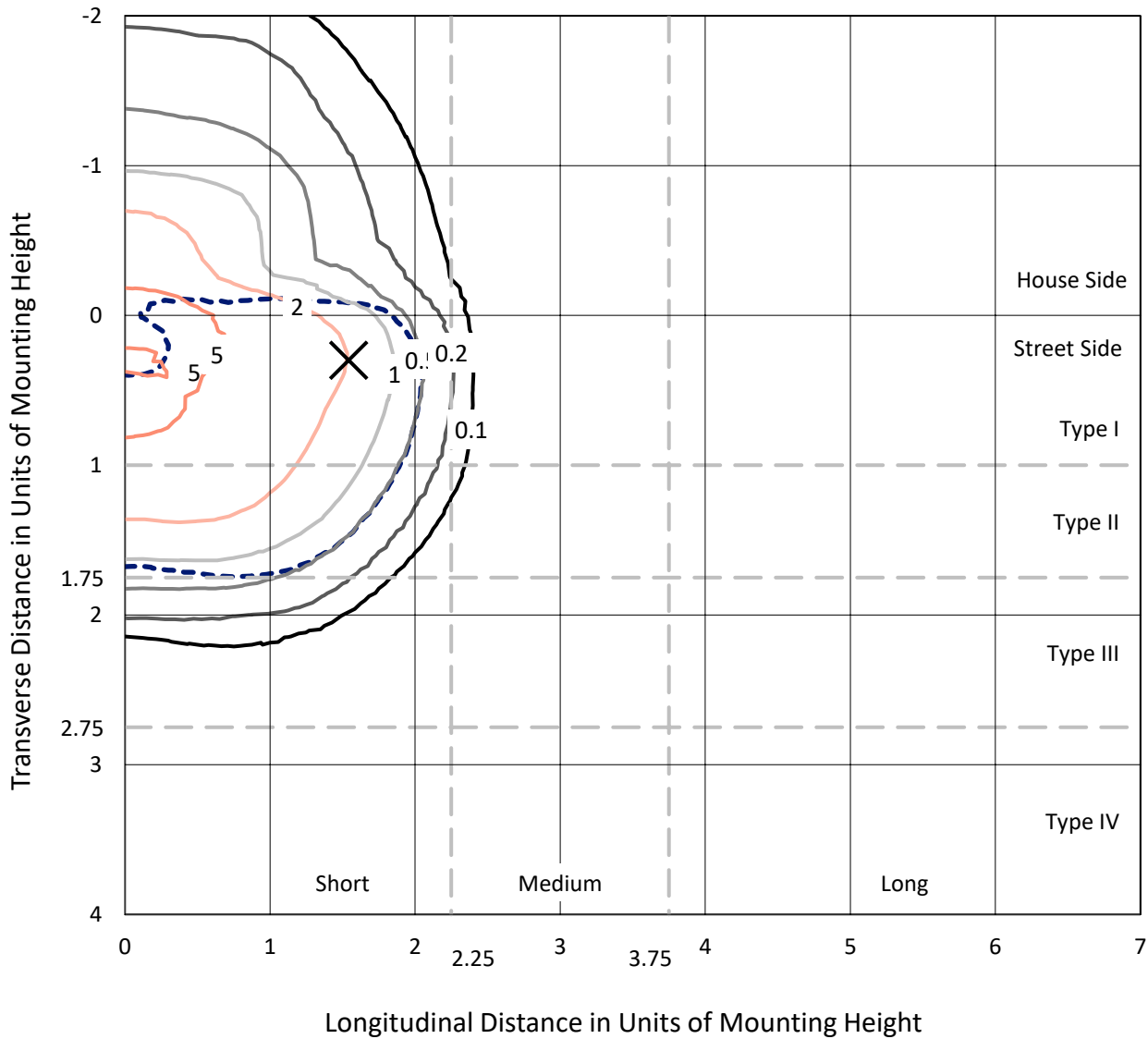
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

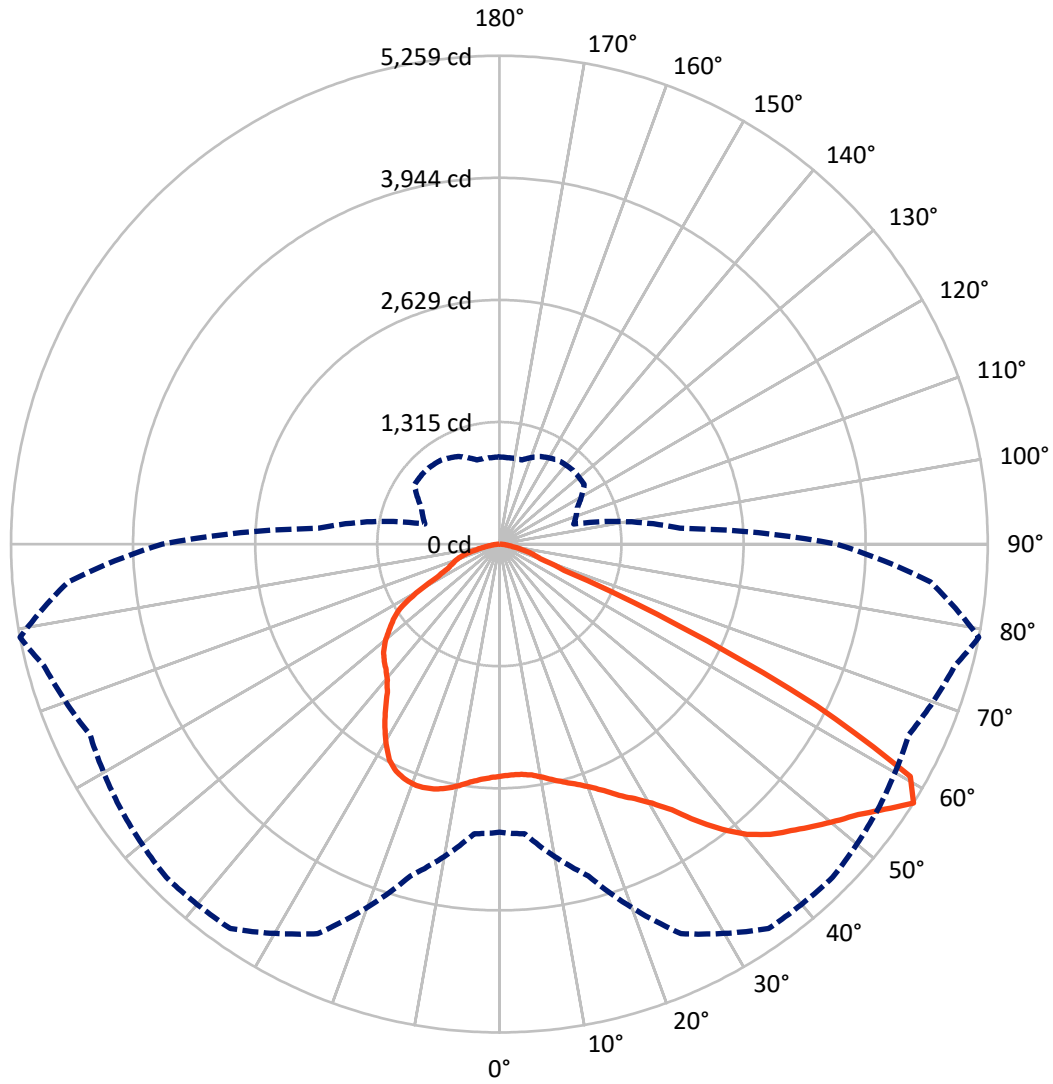
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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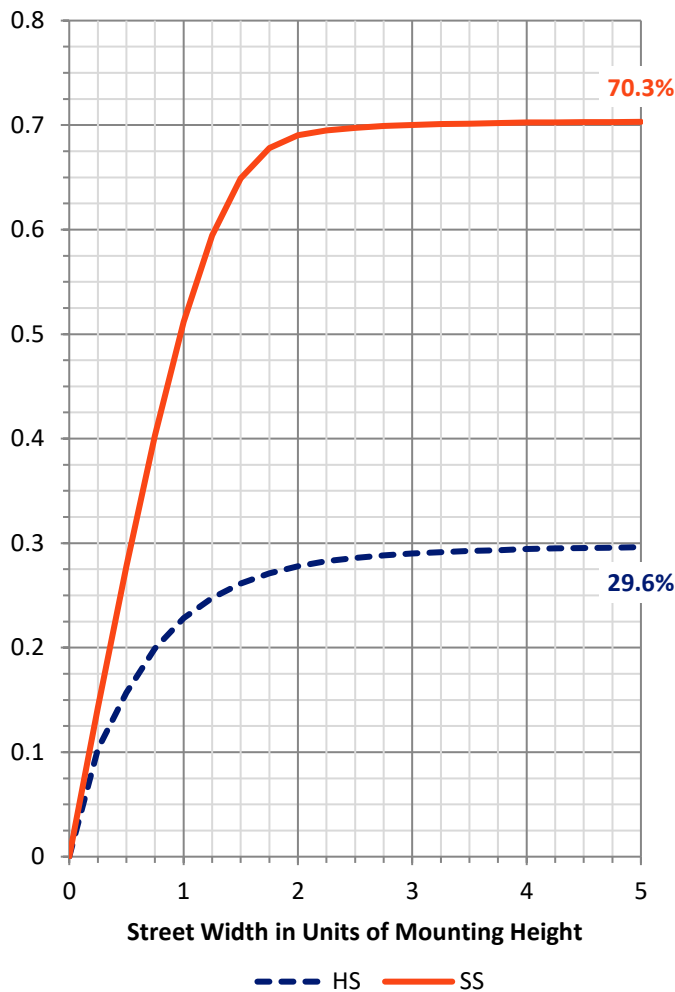
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2996.6	0.0	2996.6
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	7084.3	0.0	7084.3
	% Fixture	70.3	0.0	70.3
Total	Lumens	10080.9	0.0	10080.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	2.3
10°-20°	643.0	6.4
20°-30°	1089.8	10.8
30°-40°	1668.1	16.5
40°-50°	2224.3	22.1
50°-60°	2568.9	25.5
60°-70°	1334.9	13.2
70°-80°	283.8	2.8
80°-90°	36.8	0.4
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°	10080.9	100.0
0°-180°	10080.9	100.0

Coefficient of Utilization



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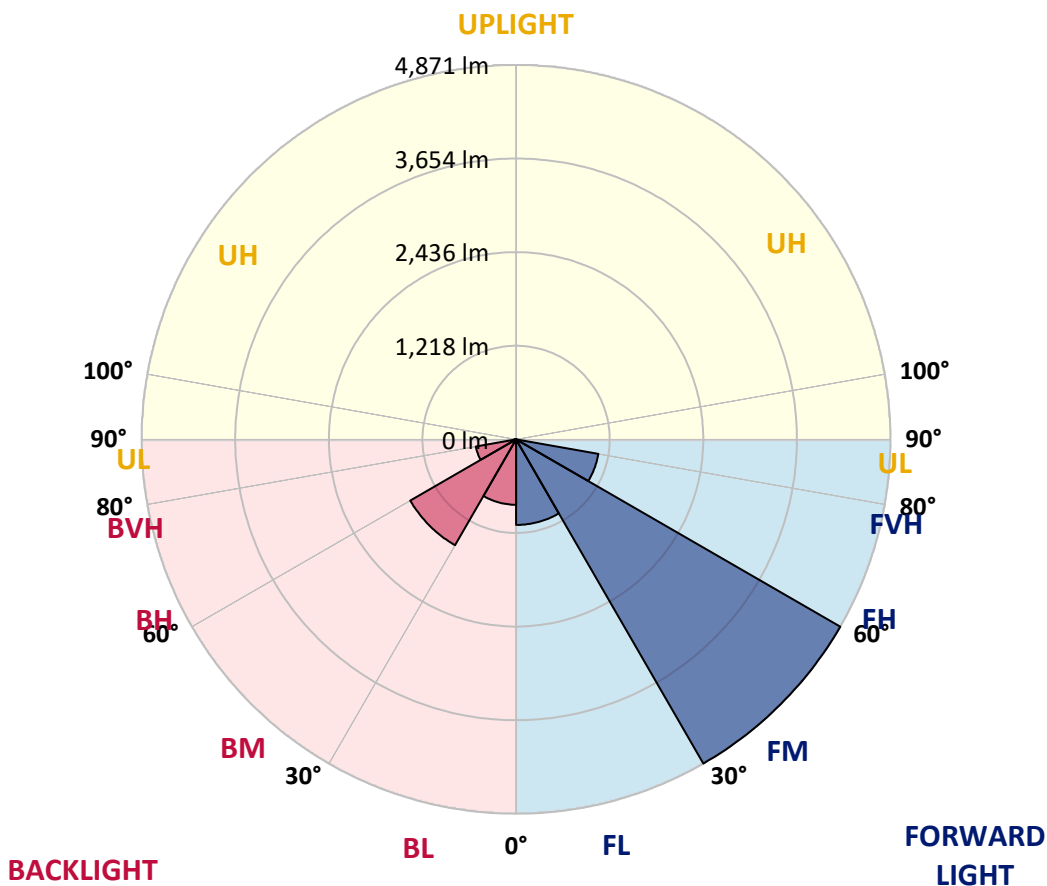
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.2	11.0			
FM (30°-60°)	4871.4	48.3			
FH (60°-80°)	1087.0	10.8			G1/1800
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	851.0	8.4	B2/1000		
BM (30°-60°)	1590.0	15.8	B2/2500		
BH (60°-80°)	531.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	23.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2498.3	2498.3	2498.3	2498.3	2498.3	2498.3	2498.3	2498.3	2498.3	2498.3	2498.3
2.5°	2384.5	2379.6	2381.2	2387.8	2412.6	2430.7	2449.6	2467.0	2483.4	2488.4	2492.5
5°	2299.6	2290.6	2293.0	2303.8	2332.6	2363.1	2396.9	2438.1	2477.7	2490.9	2508.2
7.5°	2239.5	2237.8	2241.9	2258.4	2288.9	2317.8	2361.5	2420.0	2488.4	2510.6	2541.1
10°	2159.5	2156.2	2172.7	2206.5	2256.8	2302.9	2354.9	2424.1	2519.7	2552.7	2599.7
12.5°	2096.0	2094.4	2111.7	2158.7	2223.0	2296.3	2368.0	2445.5	2561.7	2607.1	2664.8
15°	2133.1	2125.7	2126.5	2159.5	2217.2	2303.8	2401.0	2484.3	2603.8	2661.5	2735.7
17.5°	2241.1	2227.9	2218.0	2223.8	2256.8	2346.6	2451.3	2536.2	2652.4	2720.0	2810.7
20°	2390.3	2382.9	2355.7	2337.6	2345.0	2424.1	2530.4	2609.6	2715.9	2791.7	2889.0
22.5°	2590.6	2572.5	2535.4	2506.5	2484.3	2546.1	2644.2	2712.6	2804.1	2883.2	2984.6
25°	2838.7	2812.3	2753.8	2708.5	2660.7	2724.1	2811.5	2863.4	2925.2	2998.6	3095.0
27.5°	3091.7	3069.5	3004.4	2943.4	2884.0	2923.6	3027.4	3057.1	3050.5	3104.1	3186.5
30°	3361.3	3333.2	3271.4	3205.5	3128.8	3154.4	3247.5	3262.4	3192.3	3236.8	3292.9
32.5°	3645.6	3618.4	3564.9	3488.2	3401.7	3411.5	3437.1	3451.1	3384.3	3409.9	3452.8
35°	3934.9	3909.4	3855.0	3779.2	3715.7	3655.5	3591.2	3647.3	3608.5	3658.0	3654.7
37.5°	4199.5	4174.0	4140.2	4081.7	3972.9	3854.2	3705.8	3775.0	3835.2	3897.8	3887.1
40°	4378.4	4361.1	4369.3	4360.2	4220.1	3985.2	3761.8	3837.7	4001.7	4108.9	4103.1
42.5°	4532.5	4515.2	4563.0	4597.6	4432.8	4106.4	3789.0	3861.6	4108.0	4275.3	4267.1
45°	4600.9	4596.0	4675.1	4784.7	4627.3	4235.0	3859.1	3911.0	4188.8	4403.1	4371.8
47.5°	4519.3	4536.6	4692.4	4877.9	4788.9	4387.4	4002.5	4015.7	4294.3	4541.6	4453.4
50°	4356.9	4394.9	4605.0	4880.3	4906.7	4559.7	4201.2	4168.2	4436.1	4689.1	4496.2
52.5°	4120.4	4160.0	4502.8	4861.4	4974.3	4759.2	4465.7	4418.8	4614.9	4836.7	4503.7
55°	3577.2	3630.8	4268.8	4818.5	5040.2	4940.5	4764.1	4668.5	4845.7	5039.4	4577.0
57.5°	3103.3	3131.3	3698.4	4628.1	5053.4	5074.0	4976.8	4863.0	5074.9	5258.7	4659.4
60°	2277.4	2284.0	2794.2	3829.4	4648.7	4996.6	4959.5	4790.5	4966.1	5083.1	4281.9
62.5°	1286.6	1287.5	1694.6	2556.0	3472.5	4072.6	4095.7	3946.5	3798.9	3833.6	2980.5
65°	483.0	528.3	774.0	1256.1	2002.1	2404.3	2499.9	2534.5	2288.9	2136.4	1598.2
67.5°	323.1	333.8	451.7	646.2	891.0	1028.7	1150.6	1153.9	844.0	752.5	629.7
70°	246.4	257.2	355.2	462.4	451.7	417.1	450.9	438.5	453.3	465.7	478.9
72.5°	183.8	194.5	275.3	326.4	271.2	267.1	302.5	336.3	367.6	380.8	401.4
75°	122.0	130.2	185.5	174.7	150.0	177.2	220.9	254.7	272.8	288.5	304.1
77.5°	77.5	83.2	98.9	80.0	83.2	103.9	128.6	159.1	176.4	192.0	200.3
80°	35.4	34.6	33.8	37.9	47.0	61.0	77.5	95.6	108.8	115.4	120.3
82.5°	14.0	15.7	17.3	20.6	25.6	33.0	43.7	56.0	66.8	68.4	72.5
85°	5.8	6.6	7.4	9.1	11.5	14.8	18.1	25.6	32.1	34.6	37.1
87.5°	0.0	0.0	0.0	0.0	0.8	1.6	2.5	4.1	7.4	8.2	9.1
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°	2498.3	2498.3	2498.3	2498.3	2498.3	2498.3	2498.3	2498.3	2498.3	2498.3	2498.3
2.5°	2514.8	2504.0	2522.2	2534.5	2546.1	2533.7	2529.6	2518.9	2517.2	2517.2	2523.0
5°	2537.8	2530.4	2549.4	2556.8	2556.0	2528.8	2512.3	2490.9	2480.1	2480.1	2481.8
7.5°	2579.1	2574.9	2585.6	2574.1	2547.7	2492.5	2438.1	2392.8	2362.3	2346.6	2351.6
10°	2647.5	2642.5	2633.5	2590.6	2514.8	2400.2	2288.9	2206.5	2157.0	2129.0	2130.7
12.5°	2714.2	2706.0	2673.8	2579.1	2423.3	2241.1	2095.2	2002.9	1948.5	1915.5	1908.1
15°	2787.6	2766.2	2696.9	2519.7	2274.1	2046.6	1894.1	1794.4	1735.9	1716.1	1715.2
17.5°	2857.6	2819.7	2694.4	2414.2	2095.2	1843.0	1689.7	1627.9	1618.0	1627.1	1629.5
20°	2928.5	2867.5	2667.2	2268.3	1882.6	1640.2	1561.1	1586.7	1623.8	1648.5	1654.3
22.5°	3001.9	2907.1	2605.4	2080.4	1658.4	1503.4	1536.4	1592.4	1638.6	1671.6	1674.9
25°	3084.3	2944.2	2513.1	1850.4	1478.7	1465.5	1530.6	1590.0	1639.4	1677.3	1683.9
27.5°	3131.3	2945.0	2383.7	1613.9	1396.3	1450.7	1516.6	1572.7	1622.1	1663.3	1670.7
30°	3177.5	2922.8	2178.5	1421.8	1372.4	1433.4	1492.7	1544.6	1591.6	1632.0	1641.1
32.5°	3242.6	2902.2	1941.9	1311.4	1358.4	1416.9	1465.5	1511.7	1547.9	1566.1	1571.0
35°	3323.3	2875.8	1690.5	1263.6	1349.3	1403.7	1446.5	1471.3	1424.3	1414.4	1425.1
37.5°	3436.3	2851.1	1440.0	1243.0	1343.5	1398.7	1436.7	1373.2	1315.5	1292.4	1300.7
40°	3558.3	2837.0	1270.2	1226.5	1346.0	1403.7	1395.4	1301.5	1218.2	1169.6	1168.0
42.5°	3662.1	2815.6	1161.4	1215.8	1352.6	1422.6	1339.4	1238.0	1114.4	1085.5	1086.4
45°	3732.2	2761.2	1103.7	1204.2	1358.4	1426.8	1313.0	1150.6	1062.4	1044.3	1043.5
47.5°	3761.0	2662.3	1066.6	1186.1	1357.5	1393.0	1259.4	1114.4	1026.2	1021.2	1024.5
50°	3742.1	2499.9	1028.7	1150.6	1337.7	1357.5	1197.6	1082.2	1001.5	1028.7	1048.4
52.5°	3672.0	2289.7	983.3	1102.0	1302.3	1317.1	1166.3	1062.4	983.3	1019.6	1035.2
55°	3653.9	2119.1	925.6	1038.5	1249.6	1245.4	1133.3	1052.6	971.0	956.9	959.4
57.5°	3630.0	1952.6	830.0	924.8	1116.0	1122.6	1102.0	1041.0	938.8	934.7	938.8
60°	3153.6	1496.8	740.2	797.9	916.6	952.0	1066.6	1019.6	886.9	869.6	868.8
62.5°	2059.8	906.7	658.6	695.7	746.8	788.0	972.6	957.8	830.0	819.3	826.7
65°	1107.8	646.2	599.2	621.5	649.5	680.8	806.1	853.1	750.1	712.1	713.0
67.5°	566.3	549.8	554.7	570.4	591.8	607.5	650.3	691.5	639.6	607.5	606.6
70°	484.7	497.8	505.3	514.3	528.3	525.9	530.0	537.4	533.3	517.6	516.8
72.5°	412.9	433.6	435.2	436.8	441.8	430.3	422.8	410.5	411.3	413.8	414.6
75°	314.0	333.8	338.8	336.3	341.2	326.4	316.5	304.1	289.3	286.8	288.5
77.5°	204.4	220.1	227.5	225.8	228.3	216.8	211.8	198.6	181.3	174.7	174.7
80°	123.6	132.7	138.5	140.1	142.6	134.4	126.1	114.6	107.2	99.7	99.7
82.5°	75.0	80.8	84.9	84.9	87.4	78.3	71.7	63.5	60.2	53.6	53.6
85°	37.9	42.0	43.7	42.9	41.2	33.8	31.3	27.2	25.6	22.3	22.3
87.5°	9.1	11.5	11.5	8.2	8.2	4.1	2.5	0.8	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)