

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: P633278

Luminaire Tested: GWS-SA2E-735-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-735-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14629.9 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

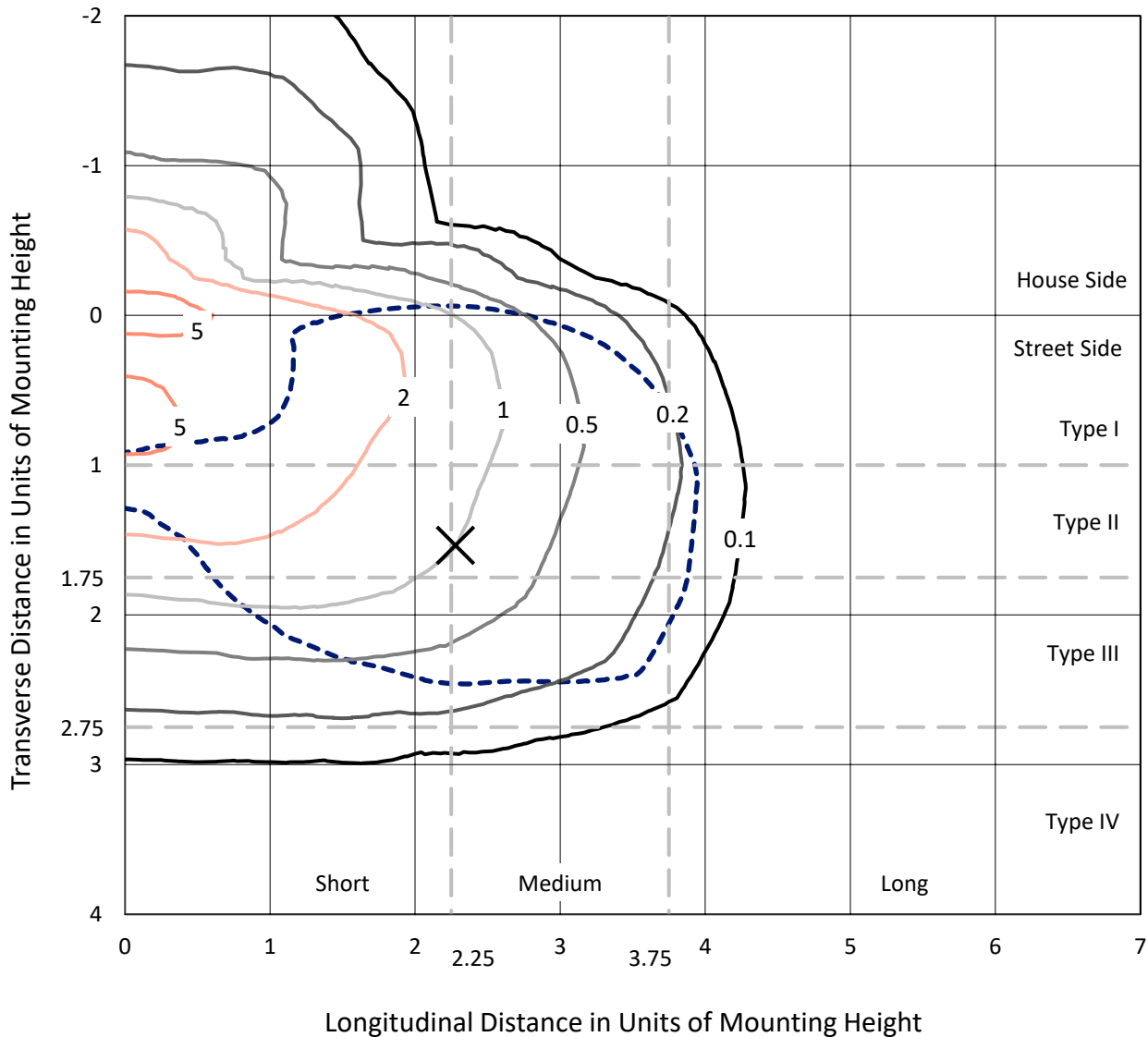
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633278
 CATALOG NUMBER: GWS-SA2E-735-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination

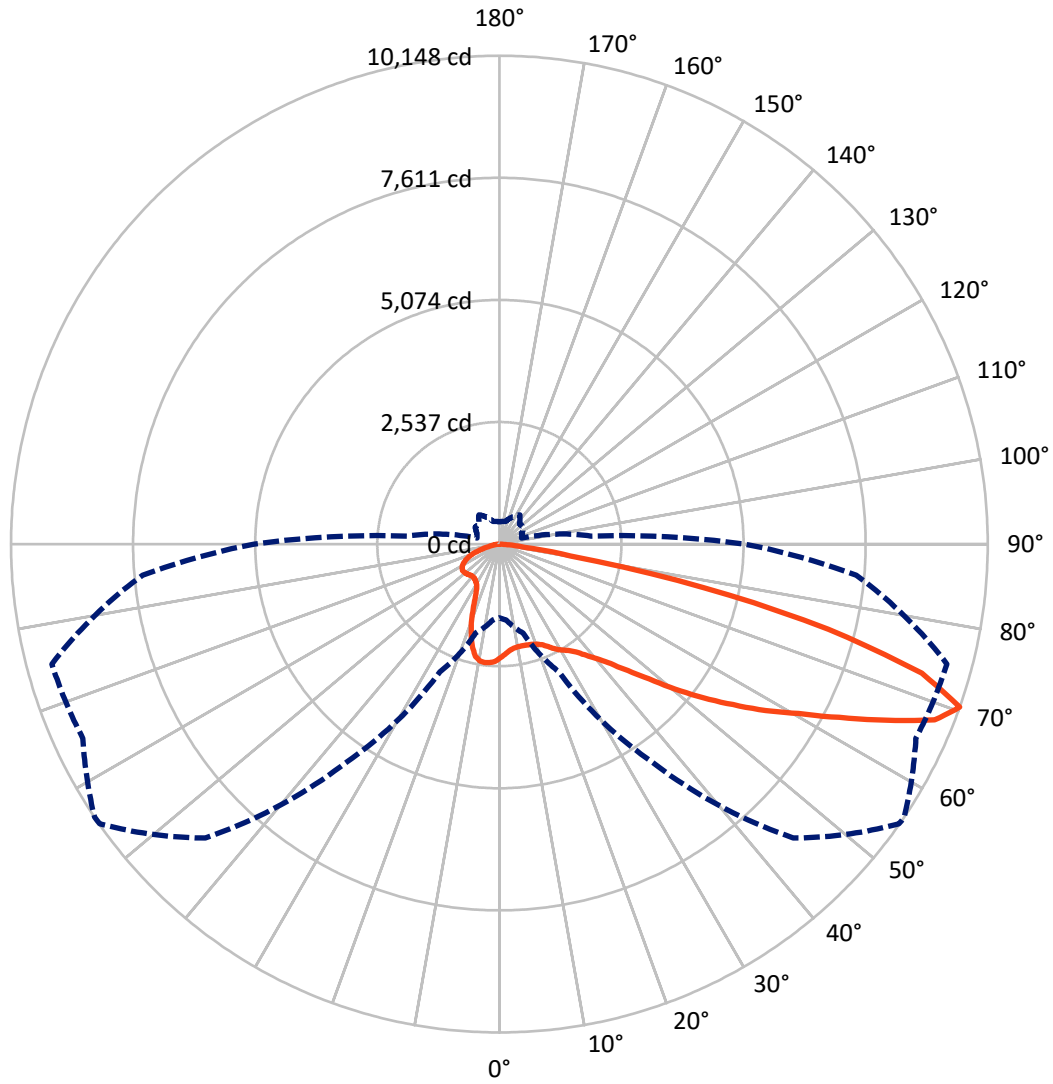
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P633278
CATALOG NUMBER: GWS-SA2E-735-U-T3R-W

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P633278

CATALOG NUMBER: GWS-SA2E-735-U-T3R-W

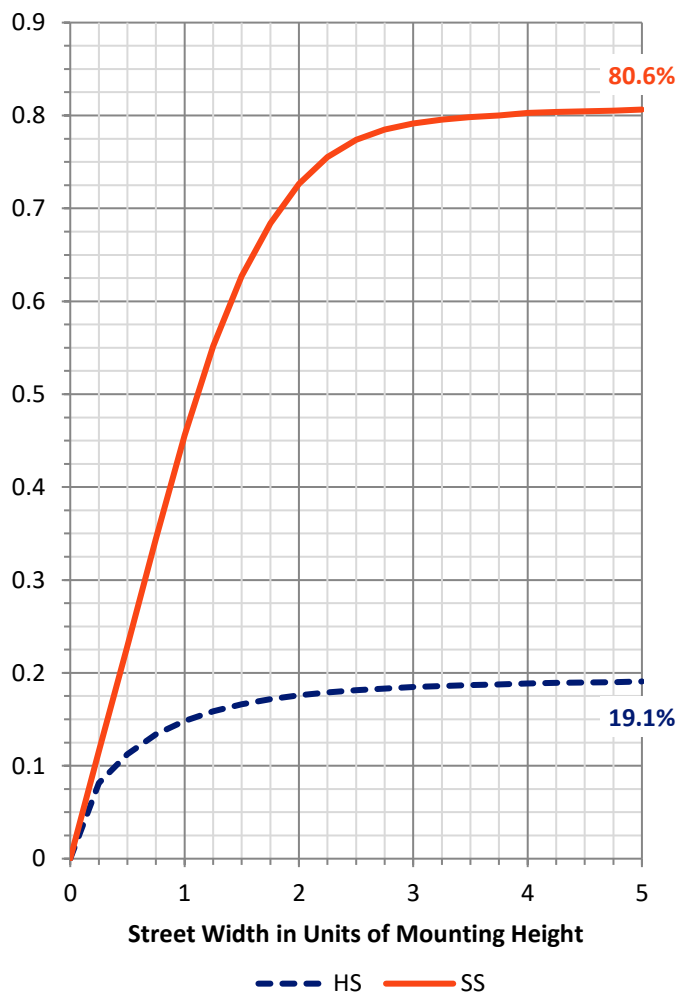
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2812.6	0.0	2812.6
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	11817.3	0.0	11817.3
	% Fixture	80.8	0.0	80.8
Total	Lumens	14629.9	0.0	14629.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	1.5
10°-20°	592.1	4.0
20°-30°	978.9	6.7
30°-40°	1463.6	10.0
40°-50°	2178.1	14.9
50°-60°	3096.6	21.2
60°-70°	3835.2	26.2
70°-80°	2117.7	14.5
80°-90°	149.1	1.0
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°	14629.9	100.0
0°-180°	14629.9	100.0

Coefficient of Utilization



REPORT NUMBER: P633278

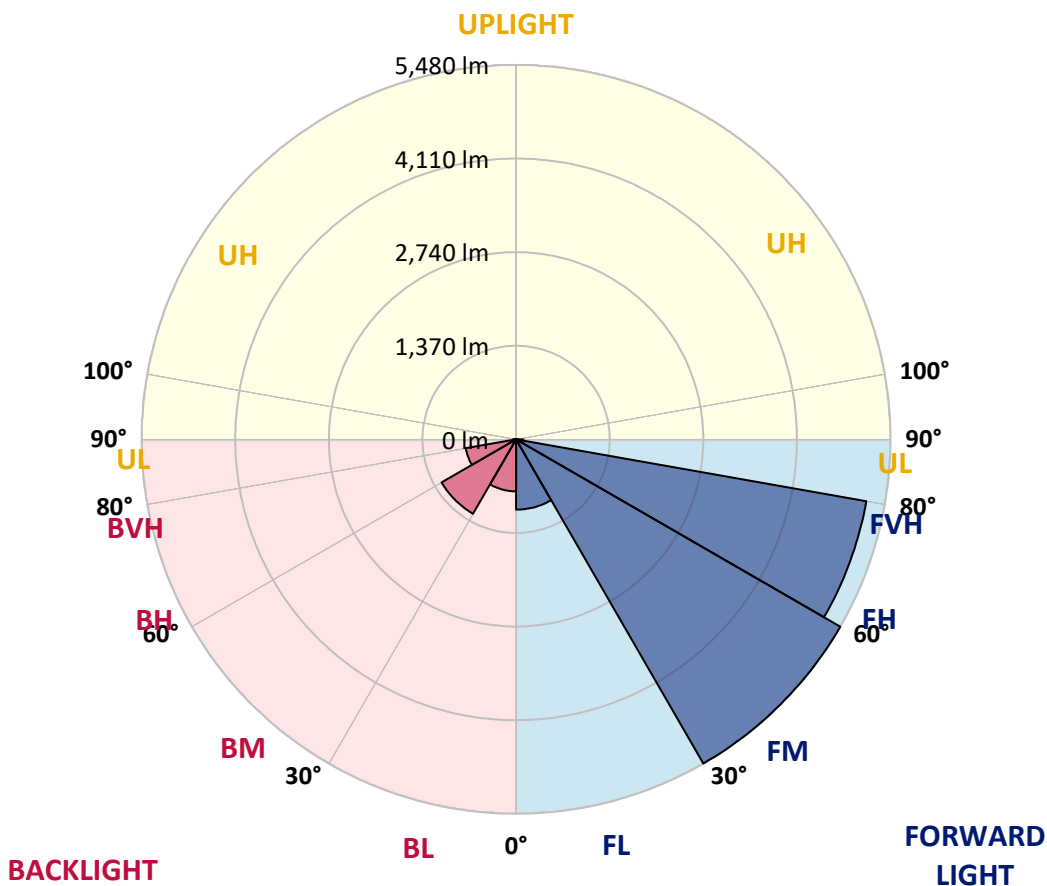
CATALOG NUMBER: GWS-SA2E-735-U-T3R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.2	7.0			
FM (30°-60°)	5480.1	37.5			
FH (60°-80°)	5205.3	35.6			G3/7500
FVH (80°-90°)	103.6	0.7			G2/225
BL (0°-30°)	761.4	5.2	B2/1000		
BM (30°-60°)	1258.1	8.6	B2/2500		
BH (60°-80°)	747.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	45.5	0.3			G1/100
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 Medium





REPORT NUMBER: P633278

CATALOG NUMBER: GWS-SA2E-735-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2361.5	2361.5	2361.5	2361.5	2361.5	2361.5	2361.5	2361.5	2361.5	2361.5	2361.5
2.5°	2209.8	2197.5	2211.9	2219.1	2237.7	2264.5	2288.2	2289.3	2301.7	2331.6	2360.5
5°	2109.8	2103.6	2107.7	2129.4	2149.0	2183.0	2219.1	2222.2	2257.3	2316.1	2373.9
7.5°	2032.4	2024.1	2039.6	2067.5	2092.2	2130.4	2177.9	2182.0	2231.5	2320.2	2408.9
10°	1921.0	1914.8	1943.7	1980.8	2034.5	2097.4	2160.3	2165.5	2230.5	2347.0	2470.8
12.5°	1872.5	1872.5	1884.9	1919.9	1978.7	2062.3	2157.2	2165.5	2247.0	2388.3	2550.3
15°	1947.8	1952.9	1942.6	1940.6	1964.3	2043.7	2161.3	2173.7	2277.9	2430.6	2628.7
17.5°	2099.4	2104.6	2077.8	2035.5	2011.8	2061.3	2176.8	2190.2	2310.9	2477.0	2713.3
20°	2312.0	2318.2	2259.4	2194.4	2112.9	2111.8	2206.7	2219.1	2353.2	2527.6	2803.0
22.5°	2560.6	2564.7	2490.4	2387.3	2262.5	2205.7	2258.3	2270.7	2407.9	2597.7	2900.0
25°	2848.4	2860.8	2771.1	2621.5	2452.3	2334.7	2344.0	2358.4	2505.9	2691.6	3014.5
27.5°	3155.9	3171.4	3068.2	2903.1	2670.0	2477.0	2454.3	2466.7	2610.1	2749.4	3075.4
30°	3470.5	3481.9	3378.7	3189.9	2904.1	2638.0	2547.2	2554.4	2655.5	2777.3	3137.3
32.5°	3820.3	3811.0	3711.9	3494.3	3174.4	2830.9	2633.9	2631.8	2706.1	2833.0	3226.0
35°	4148.3	4161.8	4056.5	3816.1	3471.6	3069.2	2763.8	2755.6	2813.4	2923.8	3350.9
37.5°	4545.5	4541.4	4415.5	4155.6	3769.7	3297.2	2946.4	2932.0	2952.6	3065.1	3525.2
40°	4829.2	4858.1	4776.6	4534.2	4118.4	3577.8	3160.0	3128.0	3133.2	3239.4	3758.4
42.5°	5061.4	5088.2	5096.4	4941.7	4517.7	3924.5	3426.2	3394.2	3397.3	3547.9	4045.2
45°	5239.8	5276.0	5392.5	5347.1	4967.5	4324.8	3786.2	3753.2	3755.3	3922.4	4391.8
47.5°	5313.1	5352.3	5588.6	5696.9	5445.2	4803.5	4234.0	4185.5	4192.7	4377.4	4788.0
50°	5289.4	5342.0	5661.8	5966.1	5845.4	5290.4	4769.4	4735.4	4707.5	4975.7	5218.2
52.5°	5085.1	5142.9	5654.6	6137.4	6172.5	5750.5	5322.4	5302.8	5296.6	5611.2	5698.9
55°	4483.6	4580.6	5405.9	6182.8	6428.3	6183.8	5921.8	5888.8	5920.7	6292.2	6184.9
57.5°	4150.4	4222.6	4919.0	6132.2	6637.8	6596.5	6520.1	6523.2	6559.4	7031.9	6773.9
60°	3960.6	4045.2	4648.7	5994.0	6838.9	7097.9	7146.4	7146.4	7211.4	7829.3	7372.3
62.5°	3708.9	3794.5	4395.9	5727.8	7024.6	7688.0	7933.5	7930.4	7956.2	8684.6	7957.3
65°	3198.2	3277.6	3888.4	5307.9	7115.4	8338.0	8828.0	8818.7	8767.1	9446.0	8344.1
67.5°	2322.3	2397.6	2978.4	4509.4	6788.4	8862.0	9749.3	9753.4	9444.9	9925.7	8364.8
70°	1531.0	1582.6	1914.8	2928.9	5520.5	8636.1	10135.1	10147.5	9549.1	9626.5	7444.5
72.5°	955.3	991.4	1195.7	1746.6	3262.1	6835.8	9144.7	9178.8	8590.7	8459.7	6116.8
75°	634.5	659.2	795.4	1018.3	1509.3	3699.6	6951.4	7060.7	6885.4	6631.6	4261.8
77.5°	381.7	402.4	506.5	646.9	668.5	1445.4	4057.6	4340.2	4365.0	3462.3	1784.8
80°	174.4	198.1	279.6	369.3	355.9	503.5	1430.9	1497.0	1766.2	1099.8	563.3
82.5°	103.2	113.5	185.7	183.6	151.7	244.5	514.8	528.2	448.8	402.4	240.4
85°	41.3	48.5	78.4	69.1	55.7	79.4	194.0	203.2	195.0	175.4	88.7
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	17.5	18.6	26.8	48.5	26.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633278
 CATALOG NUMBER: GWS-SA2E-735-U-T3R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2361.5	2361.5	2361.5	2361.5	2361.5	2361.5	2361.5	2361.5	2361.5	2361.5	2361.5
2.5°	2379.0	2372.8	2403.8	2427.5	2437.8	2448.2	2438.9	2435.8	2435.8	2415.1	2404.8
5°	2404.8	2407.9	2450.2	2469.8	2469.8	2461.6	2436.8	2419.3	2413.1	2386.3	2379.0
7.5°	2453.3	2466.7	2505.9	2504.9	2476.0	2430.6	2368.7	2321.3	2277.9	2259.4	2248.0
10°	2532.7	2550.3	2577.1	2533.8	2453.3	2333.6	2202.6	2099.4	2037.5	1988.0	1988.0
12.5°	2623.5	2640.0	2634.9	2534.8	2368.7	2144.8	1956.0	1837.4	1750.7	1705.3	1705.3
15°	2714.3	2727.7	2672.0	2487.4	2192.3	1894.1	1687.8	1545.4	1470.1	1427.8	1427.8
17.5°	2806.1	2805.1	2687.5	2378.0	1962.2	1616.6	1414.4	1304.0	1278.2	1271.0	1270.0
20°	2894.9	2871.1	2667.9	2195.4	1695.0	1337.0	1209.1	1216.3	1254.5	1271.0	1273.1
22.5°	2994.9	2936.1	2610.1	1962.2	1391.7	1143.1	1151.3	1211.2	1266.9	1291.6	1294.7
25°	3097.1	2991.8	2513.1	1688.8	1137.9	1071.9	1135.9	1202.9	1265.9	1297.8	1300.9
27.5°	3138.3	2991.8	2348.1	1372.1	1002.8	1042.0	1112.1	1177.1	1243.2	1280.3	1287.5
30°	3172.4	2966.0	2117.0	1086.3	947.1	1013.1	1074.0	1133.8	1198.8	1244.2	1252.4
32.5°	3219.8	2943.4	1837.4	913.0	921.3	985.2	1027.5	1078.1	1136.9	1166.8	1163.7
35°	3275.5	2908.3	1500.0	830.5	899.6	961.5	991.4	1021.4	994.5	993.5	996.6
37.5°	3355.0	2877.3	1206.0	793.4	885.2	945.0	969.8	905.8	868.7	853.2	847.0
40°	3469.5	2864.9	951.2	771.7	883.1	944.0	926.4	827.4	776.8	723.2	722.2
42.5°	3613.9	2855.7	786.1	761.4	890.3	967.7	866.6	775.8	671.6	647.9	645.8
45°	3799.6	2841.2	703.6	759.3	907.9	986.3	860.4	704.6	633.4	623.1	623.1
47.5°	4023.5	2818.5	666.5	759.3	927.5	978.0	841.8	689.2	615.9	627.3	634.5
50°	4280.4	2789.6	646.9	757.2	947.1	978.0	802.6	686.1	611.8	670.6	694.3
52.5°	4554.8	2756.6	633.4	749.0	960.5	979.1	804.7	696.4	615.9	680.9	700.5
55°	4858.1	2751.5	614.9	731.5	964.6	952.2	809.9	719.1	622.1	616.9	618.0
57.5°	5240.9	2813.4	601.5	705.7	948.1	897.6	820.2	735.6	614.9	615.9	623.1
60°	5641.2	2929.9	612.8	680.9	914.1	846.0	827.4	727.3	579.8	563.3	565.4
62.5°	5981.6	3018.7	622.1	669.6	864.5	800.6	820.2	708.8	560.2	556.1	565.4
65°	6124.0	2945.4	599.4	645.8	792.3	744.9	804.7	685.0	543.7	528.2	529.2
67.5°	5966.1	2601.9	555.0	593.2	710.8	673.7	779.9	654.1	521.0	502.4	498.3
70°	5096.4	1911.7	478.7	509.6	611.8	590.1	741.8	613.8	484.9	471.5	462.2
72.5°	4107.1	1353.6	397.2	405.4	479.7	497.3	675.7	563.3	443.6	405.4	392.0
75°	2858.8	850.1	331.2	322.9	346.6	379.7	527.2	467.3	382.7	342.5	330.1
77.5°	1229.7	436.4	258.9	254.8	231.1	263.1	404.4	390.0	320.8	274.4	267.2
80°	411.6	252.8	186.7	179.5	153.7	184.7	284.7	311.6	251.7	203.2	190.9
82.5°	206.3	146.5	118.6	107.3	103.2	116.6	168.2	194.0	174.4	140.3	118.6
85°	101.1	83.6	65.0	64.0	53.6	50.6	70.2	82.5	78.4	57.8	54.7
87.5°	37.1	33.0	20.6	16.5	10.3	7.2	4.1	4.1	3.1	3.1	3.1
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)