

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: P636707

Luminaire Tested: GWS-SA4B-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12584.8 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

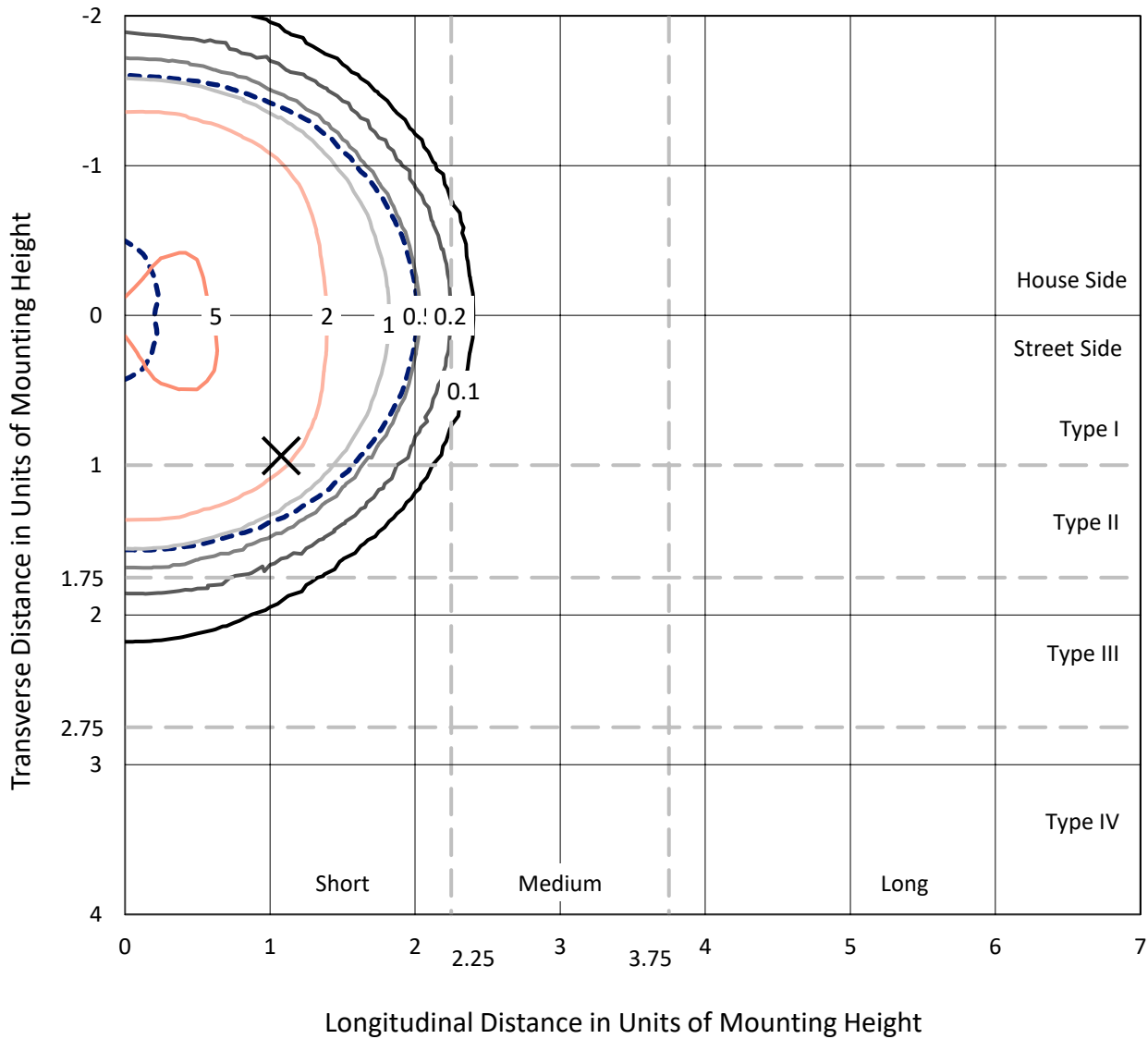
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636707
 CATALOG NUMBER: GWS-SA4B-735-U-RW-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

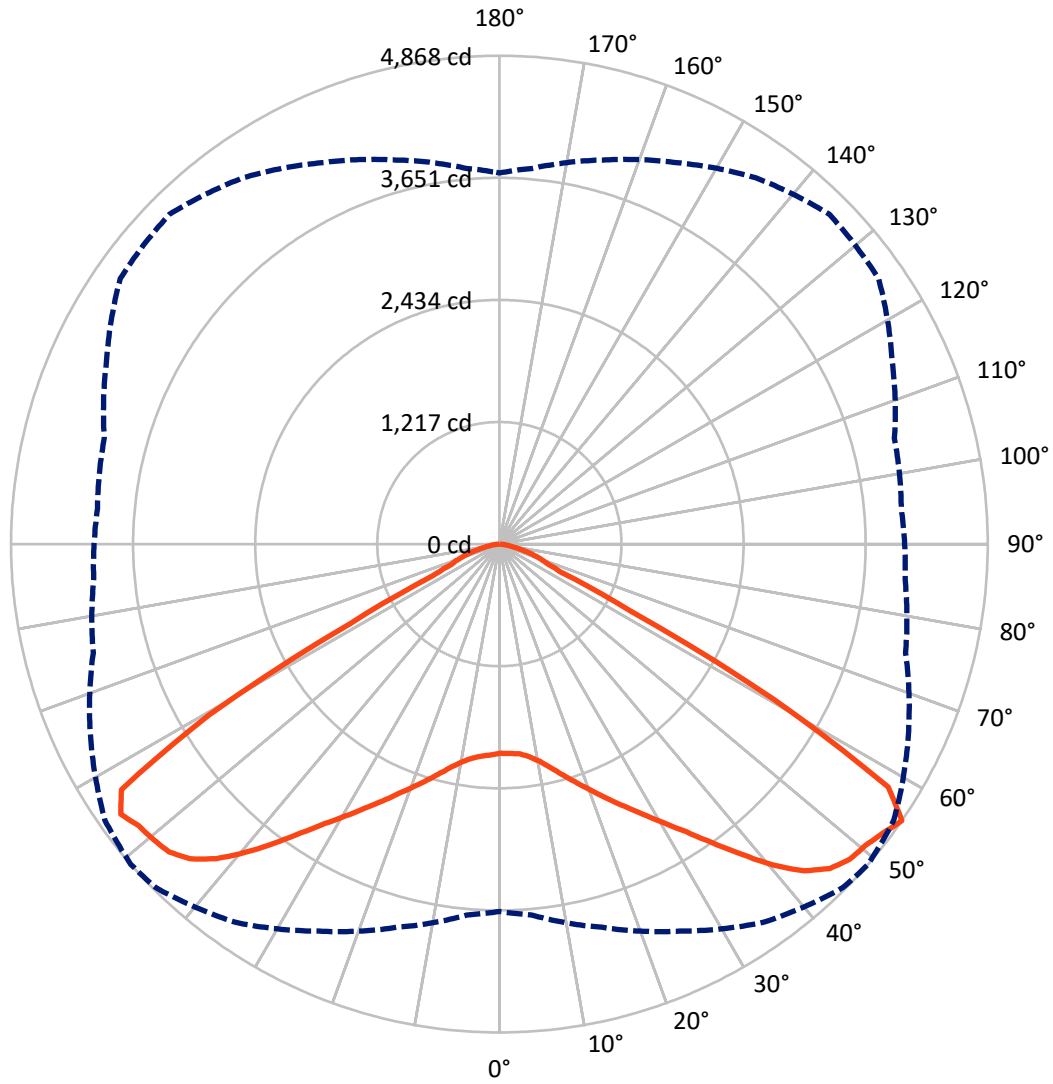
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

REPORT NUMBER: P636707
CATALOG NUMBER: GWS-SA4B-735-U-RW-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P636707
 CATALOG NUMBER: GWS-SA4B-735-U-RW-W-GRSWH

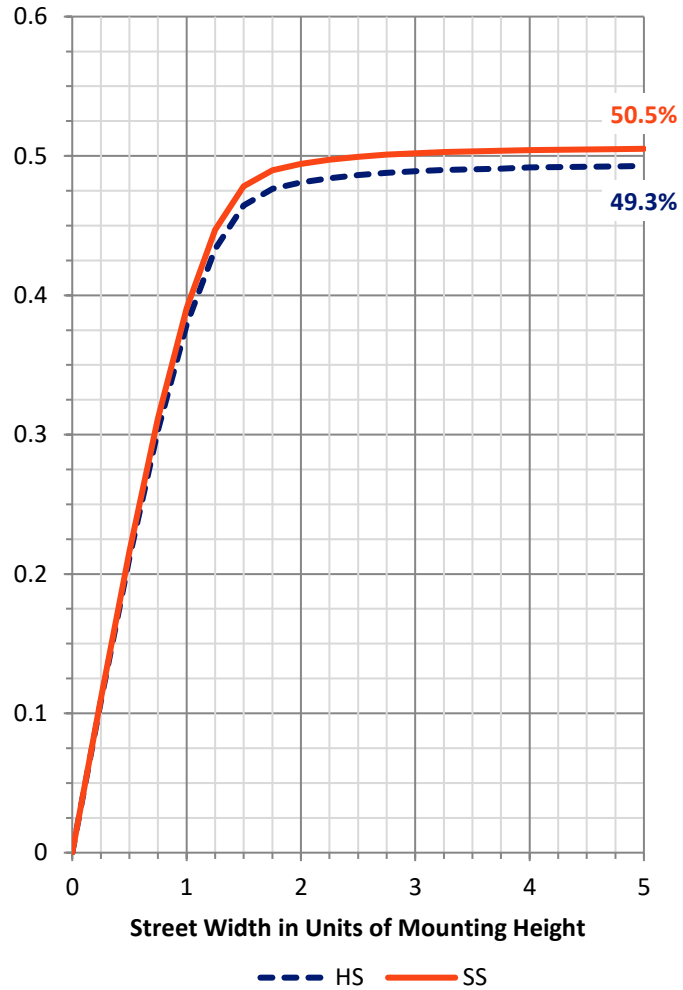
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6230.7	0.0	6230.7
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	6354.1	0.0	6354.1
	% Fixture	50.5	0.0	50.5
Total	Lumens	12584.8	0.0	12584.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	1.6
10°-20°	670.8	5.3
20°-30°	1277.7	10.2
30°-40°	2165.9	17.2
40°-50°	3259.6	25.9
50°-60°	3567.9	28.4
60°-70°	1128.2	9.0
70°-80°	270.8	2.2
80°-90°	40.6	0.3
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°	12584.8	100.0
0°-180°	12584.8	100.0

Coefficient of Utilization



REPORT NUMBER: P636707

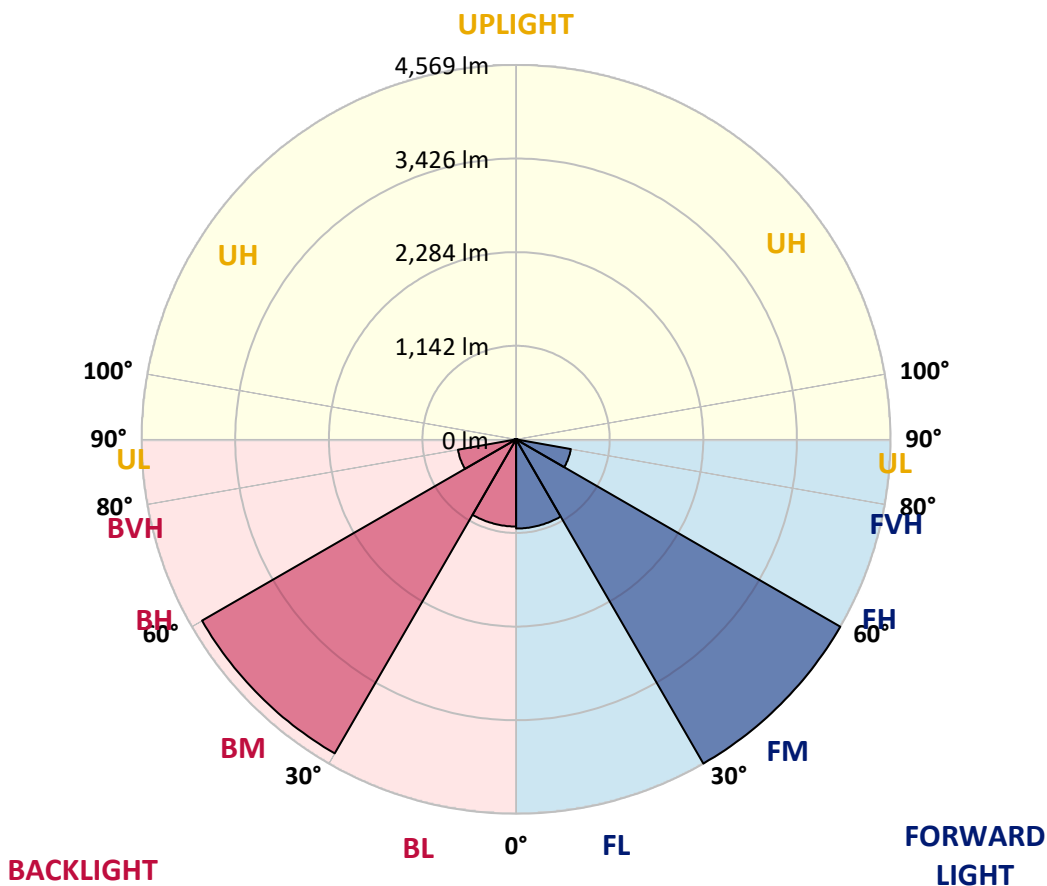
CATALOG NUMBER: GWS-SA4B-735-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.1	8.6			
FM (30°-60°)	4568.6	36.3			
FH (60°-80°)	678.6	5.4			G1/1800
FVH (80°-90°)	18.8	0.1			G1/100
BL (0°-30°)	1063.8	8.5	B3/2500		
BM (30°-60°)	4424.8	35.2	B3/5000		
BH (60°-80°)	720.3	5.7	B2/1000		G1/1800
BVH (80°-90°)	21.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P636707

CATALOG NUMBER: GWS-SA4B-735-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7
2.5°	2054.0	2056.1	2060.2	2067.3	2074.5	2084.7	2088.8	2094.0	2092.9	2099.1	2099.1
5°	2043.8	2046.9	2053.0	2063.3	2075.5	2095.0	2100.1	2112.4	2124.7	2140.0	2145.1
7.5°	2056.1	2060.2	2067.3	2083.7	2102.1	2127.7	2138.0	2158.4	2182.0	2209.6	2220.9
10°	2079.6	2084.7	2097.0	2123.6	2153.3	2192.2	2201.4	2227.0	2264.9	2302.7	2325.3
12.5°	2106.2	2114.4	2136.9	2178.9	2222.9	2274.1	2288.4	2320.1	2361.1	2410.2	2440.9
15°	2136.9	2144.1	2178.9	2238.3	2306.8	2374.4	2390.8	2421.5	2467.5	2515.6	2558.6
17.5°	2201.4	2213.7	2254.6	2323.2	2403.0	2482.9	2501.3	2536.1	2572.9	2610.8	2651.7
20°	2289.4	2299.7	2351.9	2436.8	2531.0	2603.6	2622.1	2652.8	2670.2	2689.6	2724.4
22.5°	2377.5	2391.8	2451.1	2551.4	2662.0	2740.8	2755.1	2783.8	2771.5	2765.3	2787.9
25°	2487.0	2506.4	2564.7	2674.3	2786.8	2884.1	2895.3	2919.9	2899.4	2867.7	2866.7
27.5°	2623.1	2640.5	2700.9	2813.4	2925.0	3026.3	3047.8	3080.6	3035.5	2996.6	2969.0
30°	2784.8	2796.0	2862.6	2982.3	3096.9	3193.1	3220.8	3253.5	3219.7	3155.3	3127.6
32.5°	2973.1	2988.4	3065.2	3191.1	3293.4	3389.6	3417.3	3458.2	3421.4	3348.7	3313.9
35°	3199.3	3214.6	3295.5	3432.6	3537.0	3636.3	3655.7	3689.5	3643.4	3559.5	3531.9
37.5°	3444.9	3464.3	3566.7	3696.7	3806.2	3921.8	3922.8	3933.1	3867.6	3763.2	3732.5
40°	3721.2	3746.8	3849.2	3984.3	4116.3	4210.4	4209.4	4180.8	4070.2	3908.5	3861.4
42.5°	3994.5	4015.0	4118.3	4257.5	4389.5	4478.6	4452.0	4382.4	4222.7	4002.7	3940.2
45°	4192.0	4207.4	4315.8	4472.4	4606.5	4661.8	4613.7	4529.7	4313.8	4062.0	3969.9
47.5°	4285.1	4305.6	4415.1	4570.7	4722.2	4753.9	4696.6	4617.8	4367.0	4117.3	3993.5
50°	4235.0	4261.6	4385.4	4529.7	4700.7	4766.2	4725.2	4646.4	4423.3	4171.5	4035.4
52.5°	4105.0	4130.6	4287.2	4462.2	4655.6	4785.6	4784.6	4720.1	4487.8	4186.9	4037.5
55°	3660.8	3711.0	3954.6	4256.5	4600.4	4842.9	4867.5	4798.9	4498.0	4191.0	4059.0
57.5°	2382.6	2470.6	2701.9	3094.9	3784.7	4404.9	4570.7	4587.1	4424.3	4173.6	4063.1
60°	994.8	1065.4	1248.6	1509.6	2079.6	2817.5	3138.9	3461.3	3850.2	3991.4	4025.2
62.5°	618.2	624.3	642.7	702.1	892.4	1252.7	1459.4	1761.3	2339.6	2831.9	3059.1
65°	557.8	560.8	564.9	560.8	570.1	614.1	669.3	774.7	1010.1	1254.7	1545.4
67.5°	491.3	495.3	498.4	495.3	498.4	500.5	506.6	515.8	558.8	593.6	620.2
70°	397.1	403.2	408.4	406.3	418.6	418.6	424.7	431.9	453.4	479.0	497.4
72.5°	302.9	297.8	304.0	306.0	317.3	323.4	332.6	340.8	365.4	380.7	404.3
75°	196.5	191.4	200.6	205.7	221.1	229.3	237.4	245.6	263.0	273.3	295.8
77.5°	106.4	105.4	114.6	121.8	138.2	148.4	154.5	160.7	175.0	178.1	192.4
80°	61.4	61.4	67.5	72.7	82.9	94.2	100.3	105.4	115.6	118.7	124.9
82.5°	33.8	33.8	36.8	39.9	48.1	54.2	59.4	63.5	72.7	75.7	78.8
85°	16.4	15.4	17.4	19.4	22.5	25.6	28.7	30.7	37.9	39.9	44.0
87.5°	2.0	2.0	2.0	3.1	4.1	6.1	7.2	7.2	11.3	13.3	15.4
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: P636707

CATALOG NUMBER: GWS-SA4B-735-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7	2084.7
2.5°	2105.2	2091.9	2100.1	2103.2	2103.2	2100.1	2086.8	2082.7	2076.6	2067.3	2067.3
5°	2152.3	2142.1	2144.1	2139.0	2126.7	2111.4	2086.8	2074.5	2064.3	2053.0	2052.0
7.5°	2233.1	2219.8	2217.8	2198.4	2165.6	2132.9	2096.0	2073.5	2058.1	2043.8	2042.8
10°	2338.6	2326.3	2310.9	2272.0	2223.9	2175.8	2125.7	2095.0	2072.5	2052.0	2051.0
12.5°	2456.3	2441.9	2413.3	2356.0	2295.6	2248.5	2191.2	2144.1	2110.3	2082.7	2077.6
15°	2584.2	2563.7	2514.6	2447.0	2387.7	2337.5	2276.1	2208.6	2157.4	2113.4	2108.3
17.5°	2682.4	2655.8	2602.6	2539.2	2490.0	2439.9	2360.1	2275.1	2201.4	2146.2	2138.0
20°	2750.0	2728.5	2668.1	2621.0	2592.4	2548.4	2455.2	2359.0	2276.1	2206.5	2202.4
22.5°	2812.4	2786.8	2727.5	2699.8	2699.8	2670.2	2581.1	2467.5	2370.3	2289.4	2279.2
25°	2883.0	2855.4	2810.4	2807.3	2821.6	2808.3	2700.9	2579.1	2465.5	2374.4	2358.0
27.5°	2981.3	2950.6	2924.0	2942.4	2962.9	2948.5	2828.8	2687.6	2567.8	2475.7	2461.4
30°	3137.9	3100.0	3075.4	3098.0	3137.9	3095.9	2965.9	2816.5	2695.7	2594.4	2587.3
32.5°	3320.0	3277.1	3251.5	3287.3	3323.1	3257.6	3128.7	2985.4	2858.5	2752.0	2739.8
35°	3539.1	3484.8	3446.9	3495.0	3531.9	3467.4	3339.5	3203.4	3062.1	2951.6	2935.2
37.5°	3733.5	3668.0	3642.4	3710.0	3759.1	3717.1	3577.9	3450.0	3295.5	3174.7	3167.5
40°	3874.7	3810.3	3791.8	3903.4	3989.4	3979.1	3854.3	3707.9	3562.6	3423.4	3410.1
42.5°	3936.2	3891.1	3895.2	4045.7	4178.7	4244.2	4132.7	3976.1	3835.9	3691.6	3682.3
45°	3949.5	3921.8	3954.6	4142.9	4317.9	4452.0	4356.8	4225.8	4067.2	3928.0	3923.9
47.5°	3963.8	3948.4	3998.6	4198.2	4405.9	4561.5	4508.3	4373.2	4212.5	4076.4	4066.1
50°	3997.6	3991.4	4047.7	4237.0	4447.9	4591.2	4530.8	4396.7	4231.9	4097.9	4073.3
52.5°	4007.8	3997.6	4078.4	4297.4	4517.5	4590.1	4460.2	4285.1	4119.3	3969.9	3944.3
55°	4039.5	4021.1	4076.4	4319.9	4613.7	4649.5	4456.1	4194.1	3962.8	3759.1	3698.7
57.5°	4047.7	4027.2	4063.1	4283.1	4509.3	4477.6	3916.7	3384.5	2948.5	2722.4	2747.9
60°	4003.7	4009.8	3948.4	3923.9	3616.8	3193.1	2397.9	1916.9	1505.5	1331.5	1369.4
62.5°	3047.8	3073.4	2863.6	2490.0	1914.9	1517.8	1004.0	779.9	660.1	629.4	634.5
65°	1538.2	1573.0	1355.0	1120.7	833.1	673.4	582.3	563.9	557.8	550.6	550.6
67.5°	608.9	619.2	611.0	572.1	532.2	517.9	513.8	511.7	504.6	500.5	501.5
70°	489.2	497.4	485.1	460.5	444.2	443.1	441.1	437.0	431.9	431.9	435.0
72.5°	399.1	407.3	389.9	374.6	362.3	353.1	348.0	344.9	337.7	337.7	340.8
75°	293.7	298.8	284.5	282.5	269.2	260.0	251.8	247.7	238.5	234.4	237.4
77.5°	195.5	194.5	187.3	187.3	182.2	170.9	161.7	152.5	140.2	132.0	134.1
80°	126.9	126.9	123.8	123.8	118.7	109.5	98.3	89.0	81.9	75.7	75.7
82.5°	80.9	79.8	78.8	77.8	75.7	66.5	58.3	52.2	47.1	43.0	44.0
85°	45.0	45.0	43.0	43.0	38.9	33.8	29.7	25.6	22.5	21.5	21.5
87.5°	15.4	15.4	14.3	14.3	12.3	9.2	7.2	6.1	5.1	4.1	5.1
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)