

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: P641212

Luminaire Tested: GWS-SA5F-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31435 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

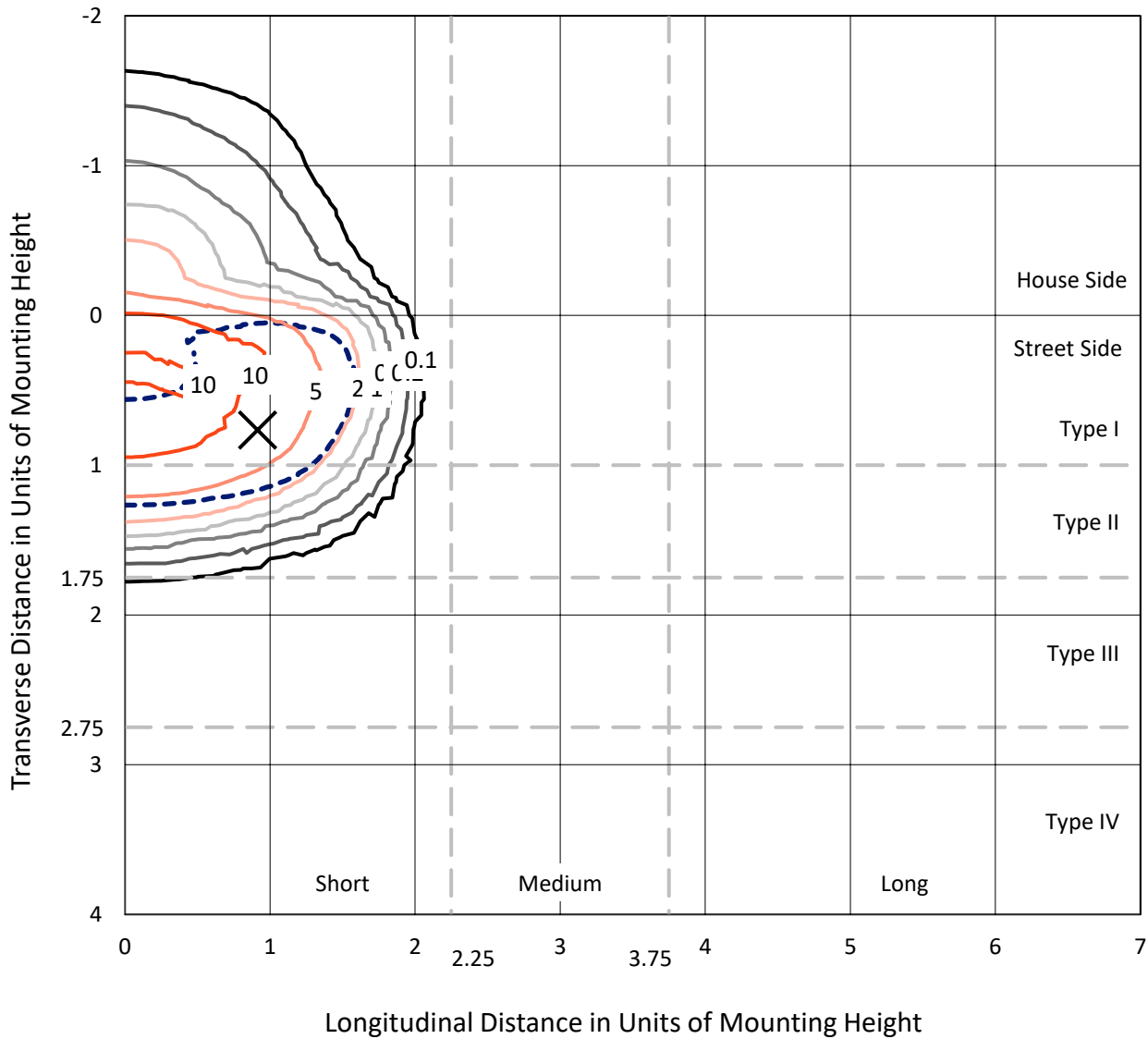
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641212
 CATALOG NUMBER: GWS-SA5F-740-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

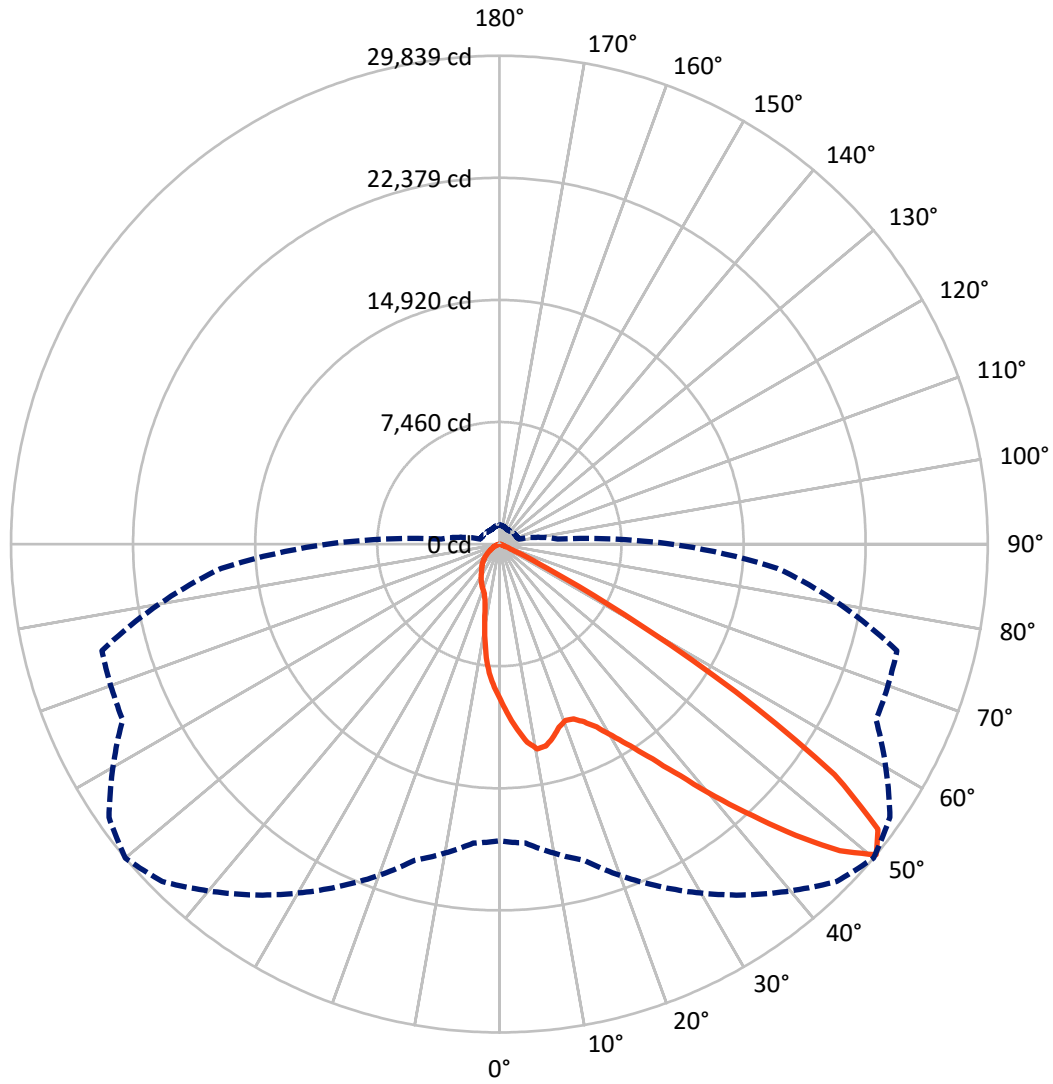
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

REPORT NUMBER: P641212
CATALOG NUMBER: GWS-SA5F-740-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P641212

CATALOG NUMBER: GWS-SA5F-740-U-AFL-W-GRSBK

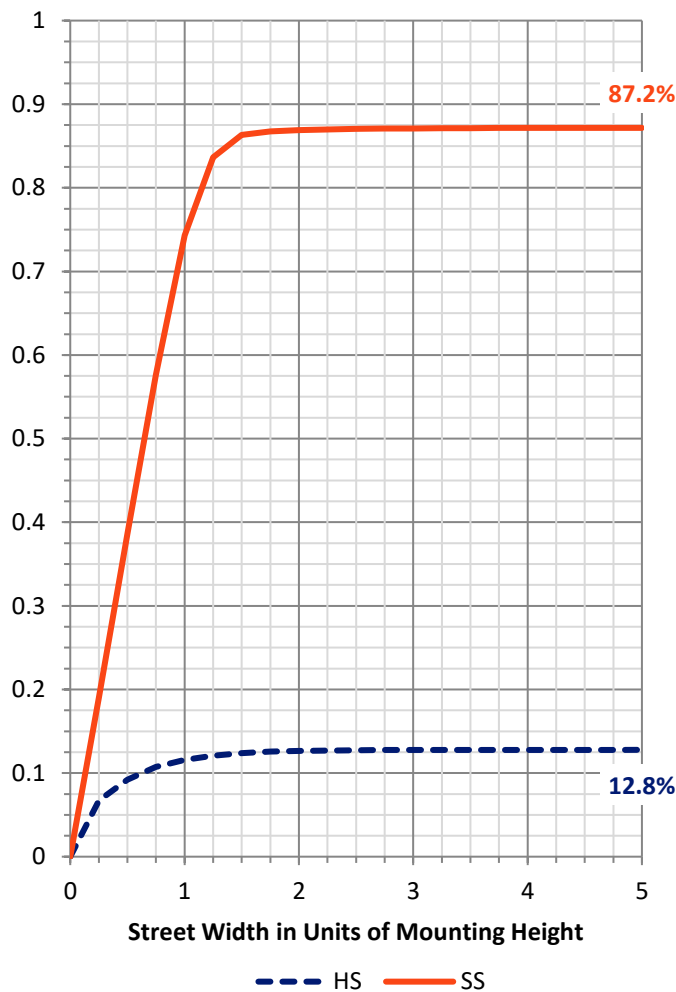
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4038.9	0.0	4038.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	27396.1	0.0	27396.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	31435.0	0.0	31435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.4	2.8
10°-20°	2279.4	7.3
20°-30°	3761.8	12.0
30°-40°	6207.8	19.7
40°-50°	9822.1	31.2
50°-60°	7436.5	23.7
60°-70°	930.7	3.0
70°-80°	105.3	0.3
80°-90°	8.1	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°	31435.0	100.0
0°-180°	31435.0	100.0

Coefficient of Utilization



REPORT NUMBER: P641212

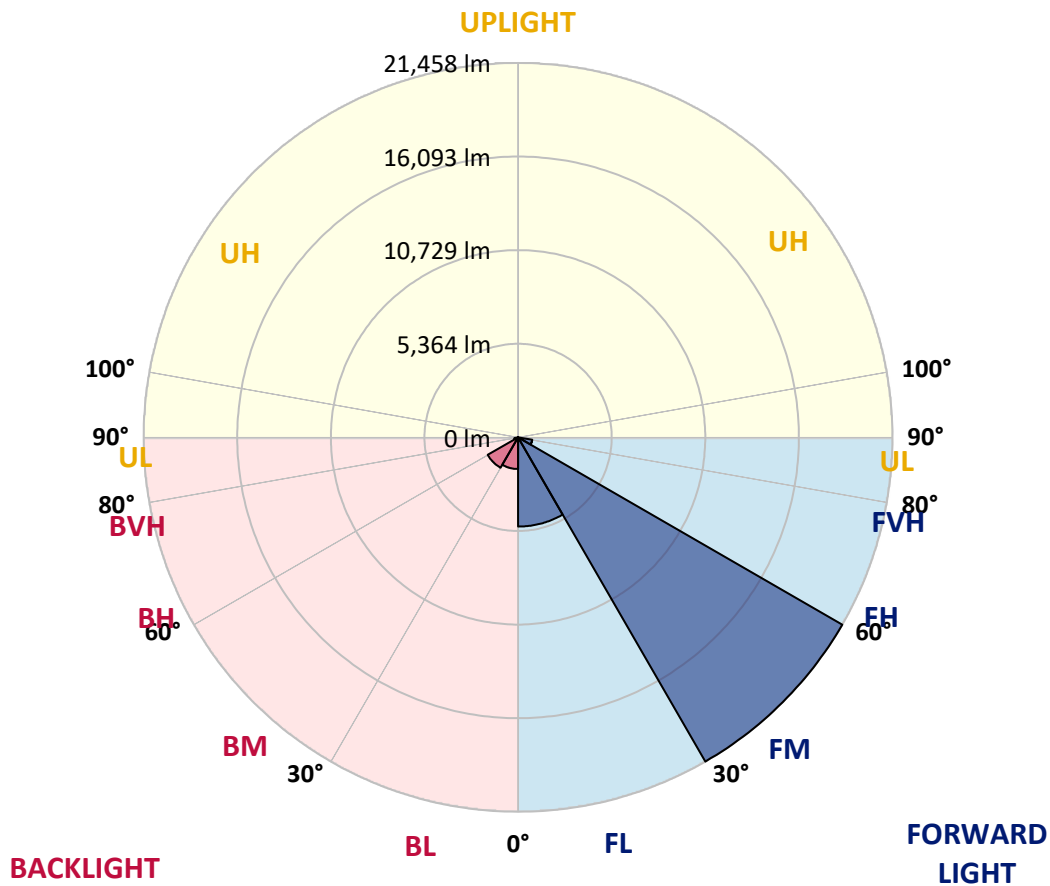
CATALOG NUMBER: GWS-SA5F-740-U-AFL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5111.8	16.3			
FM (30°-60°)	21457.7	68.3			
FH (60°-80°)	822.9	2.6			G1/1800
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	1812.8	5.8	B3/2500		
BM (30°-60°)	2008.6	6.4	B2/2500		
BH (60°-80°)	213.1	0.7	B1/500		G1/500
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





REPORT NUMBER: P641212

CATALOG NUMBER: GWS-SA5F-740-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	9523.6	9523.6	9523.6	9523.6	9523.6	9523.6	9523.6	9523.6	9523.6	9523.6	9523.6
2.5°	10852.0	10938.8	10914.8	10801.1	10678.5	10591.7	10457.1	10415.2	10110.0	9897.6	9673.2
5°	12162.5	12189.4	12159.5	12021.9	11806.5	11600.0	11378.6	11249.9	10738.3	10277.5	9807.8
7.5°	12476.7	12443.8	12500.6	12569.4	12539.5	12449.7	12216.4	12075.7	11465.4	10714.4	10002.3
10°	11495.3	11420.5	11632.9	11989.0	12363.0	12784.8	12725.0	12737.0	12174.5	11264.9	10256.6
12.5°	10193.8	10163.8	10322.4	10735.3	11468.4	12425.8	12656.2	13042.2	12823.7	11860.3	10546.8
15°	9622.3	9637.3	9733.0	9993.3	10519.9	11710.7	12264.2	12961.4	13404.2	12437.8	10867.0
17.5°	9709.1	9762.9	9759.9	9846.7	10166.8	11121.3	11767.6	12707.0	13853.0	13102.0	11235.0
20°	10298.5	10352.3	10271.6	10205.7	10313.4	10971.7	11507.3	12449.7	14155.2	13772.2	11623.9
22.5°	11181.1	11244.0	11052.5	10864.0	10795.2	11217.0	11606.0	12345.0	14385.6	14385.6	11971.0
25°	12249.3	12336.0	12039.8	11704.7	11513.2	11734.6	12027.9	12581.4	14621.9	14936.1	12207.4
27.5°	13443.1	13446.1	13191.8	12814.8	12455.7	12482.6	12659.2	13114.0	14882.2	15528.5	12392.9
30°	14786.5	14795.5	14457.4	14005.6	13553.8	13431.1	13580.7	13924.8	15423.8	16273.5	12650.2
32.5°	16521.9	16563.7	16079.0	15414.8	14828.4	14598.0	14684.8	15046.8	16285.5	17207.0	13036.2
35°	18867.6	18912.5	18197.4	17320.7	16387.2	16040.1	16126.9	16491.9	17533.2	18532.5	13652.5
37.5°	21183.4	21243.2	20519.2	19702.4	18421.8	17847.3	17937.1	18284.1	19406.2	20363.6	14639.9
40°	22784.1	22864.9	22640.5	22090.0	20902.2	20148.2	20255.9	20381.5	21467.6	22553.7	15920.5
42.5°	23627.9	23741.6	23837.3	24118.6	23493.2	22861.9	22679.4	22688.4	23565.0	24785.8	17251.9
45°	23678.7	23789.4	24280.1	25366.2	25842.0	25710.3	25378.2	25153.8	25165.8	26272.8	18083.7
47.5°	22033.1	22239.6	23158.1	25285.4	27074.7	28166.7	27999.2	27466.6	25839.0	26371.5	17993.9
50°	18134.5	18338.0	20007.5	23068.4	26177.1	29148.1	29839.3	29124.2	25399.1	25141.8	17069.4
52.5°	13170.8	13191.8	14274.9	17850.3	22538.8	27338.0	28965.6	28896.8	24728.9	23651.8	15806.8
55°	6256.3	6181.5	7399.2	10074.1	15588.4	22110.9	24854.6	25632.5	23777.5	22574.7	14828.4
57.5°	1822.1	1858.0	2399.6	3931.5	7797.2	14131.2	17021.5	18469.7	19516.9	18559.4	11501.3
60°	816.8	819.8	912.6	1196.8	2597.1	6573.4	8799.5	10591.7	11668.8	10813.1	5705.8
62.5°	592.4	595.4	631.3	676.2	882.6	2226.1	3300.2	4398.2	4479.0	2932.2	1445.1
65°	493.7	493.7	499.7	499.7	529.6	795.9	1002.3	1292.5	1089.1	807.8	565.5
67.5°	397.9	400.9	406.9	406.9	397.9	397.9	430.8	472.7	505.6	625.3	520.6
70°	311.2	308.2	308.2	311.2	302.2	257.3	278.3	317.2	347.1	487.7	451.8
72.5°	242.4	245.3	242.4	230.4	209.4	152.6	164.6	206.4	221.4	305.2	305.2
75°	182.5	185.5	173.5	131.6	86.8	47.9	62.8	101.7	128.7	149.6	110.7
77.5°	23.9	23.9	18.0	18.0	15.0	18.0	18.0	23.9	35.9	35.9	26.9
80°	3.0	3.0	3.0	6.0	9.0	12.0	12.0	12.0	12.0	15.0	15.0
82.5°	3.0	3.0	3.0	3.0	9.0	9.0	12.0	12.0	12.0	12.0	12.0
85°	0.0	0.0	0.0	3.0	6.0	9.0	9.0	12.0	12.0	12.0	12.0
87.5°	0.0	0.0	0.0	3.0	6.0	9.0	9.0	9.0	12.0	12.0	12.0
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: P641212

CATALOG NUMBER: GWS-SA5F-740-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9523.6	9523.6	9523.6	9523.6	9523.6	9523.6	9523.6	9523.6	9523.6	9523.6	9523.6
2.5°	9538.5	9365.0	9155.5	9011.9	8808.5	8673.8	8482.3	8353.7	8243.0	8156.2	8204.1
5°	9541.5	9266.2	8838.4	8473.4	8075.4	7710.4	7318.4	7010.3	6732.0	6606.3	6675.2
7.5°	9601.3	9206.4	8551.2	7901.9	7138.9	6384.9	5678.8	5104.4	4820.1	4685.5	4727.4
10°	9718.0	9179.5	8231.0	7153.9	5915.2	4885.9	4200.8	3811.8	3653.2	3569.5	3584.4
12.5°	9825.7	9161.5	7815.1	6169.5	4667.5	3790.9	3434.8	3381.0	3413.9	3416.9	3413.9
15°	9972.4	9128.6	7300.5	5158.2	3734.0	3276.2	3285.2	3363.0	3440.8	3464.7	3458.8
17.5°	10127.9	9077.7	6636.3	4188.8	3168.5	3126.6	3231.4	3336.1	3413.9	3425.8	3428.8
20°	10289.5	8973.0	5879.3	3419.9	2905.2	3013.0	3129.6	3207.4	3264.3	3282.2	3288.2
22.5°	10364.3	8751.6	5005.6	2869.3	2728.7	2872.3	2959.1	3060.8	3078.8	3013.0	3024.9
25°	10325.4	8377.6	4152.9	2498.3	2552.2	2695.8	2824.5	2773.6	2698.8	2650.9	2665.9
27.5°	10202.7	7880.9	3318.1	2226.1	2363.7	2546.2	2561.2	2504.3	2492.3	2453.4	2465.4
30°	10071.1	7309.5	2668.9	2007.6	2172.2	2363.7	2318.8	2339.7	2342.7	2297.9	2312.8
32.5°	9990.3	6711.1	2124.3	1861.0	2049.5	2085.4	2175.2	2217.1	2220.1	2115.3	2133.3
35°	10017.2	6121.6	1798.2	1741.3	1935.8	1926.9	2052.5	2076.5	1902.9	1759.3	1774.3
37.5°	10235.7	5577.1	1612.7	1648.6	1738.4	1807.2	1902.9	1744.3	1705.4	1639.6	1648.6
40°	10642.6	5113.3	1502.0	1591.7	1603.7	1714.4	1567.8	1588.8	1591.7	1549.9	1558.8
42.5°	11118.3	4727.4	1436.2	1558.8	1528.9	1546.9	1400.3	1442.1	1487.0	1469.1	1472.1
45°	11357.7	4350.4	1379.3	1445.1	1454.1	1283.6	1250.7	1295.5	1352.4	1361.4	1364.4
47.5°	11145.2	3991.3	1319.5	1280.6	1340.4	1169.9	1131.0	1145.9	1211.8	1247.7	1253.7
50°	10496.0	3578.4	1229.7	1134.0	1101.1	1050.2	1014.3	1017.3	1092.1	1154.9	1166.9
52.5°	9583.4	3147.6	1083.1	960.4	885.6	924.5	933.5	915.6	984.4	1047.2	1059.2
55°	8697.8	2609.0	858.7	780.9	712.1	795.9	819.8	795.9	816.8	858.7	861.7
57.5°	6124.6	1475.1	658.2	646.3	589.4	682.2	721.1	685.2	649.3	676.2	682.2
60°	2839.4	771.9	505.6	505.6	490.7	586.4	652.3	601.4	532.6	544.5	553.5
62.5°	888.6	487.7	371.0	350.1	400.9	499.7	553.5	502.7	421.9	421.9	433.8
65°	502.7	418.9	293.2	269.3	326.1	400.9	433.8	380.0	308.2	302.2	302.2
67.5°	466.8	397.9	260.3	218.4	230.4	257.3	269.3	233.4	212.4	209.4	212.4
70°	386.0	332.1	209.4	149.6	140.6	137.6	143.6	134.6	128.7	131.6	140.6
72.5°	239.4	200.5	131.6	89.8	77.8	74.8	74.8	74.8	71.8	71.8	71.8
75°	86.8	74.8	59.8	44.9	38.9	35.9	35.9	38.9	35.9	32.9	29.9
77.5°	26.9	23.9	23.9	23.9	20.9	18.0	15.0	15.0	12.0	9.0	9.0
80°	15.0	15.0	15.0	15.0	12.0	12.0	9.0	6.0	3.0	3.0	0.0
82.5°	15.0	15.0	15.0	12.0	12.0	12.0	9.0	6.0	3.0	0.0	0.0
85°	12.0	12.0	12.0	12.0	12.0	12.0	9.0	6.0	3.0	0.0	0.0
87.5°	12.0	12.0	12.0	12.0	12.0	12.0	9.0	6.0	3.0	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)