

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: P633802

Luminaire Tested: GWS-SA2F-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12782 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

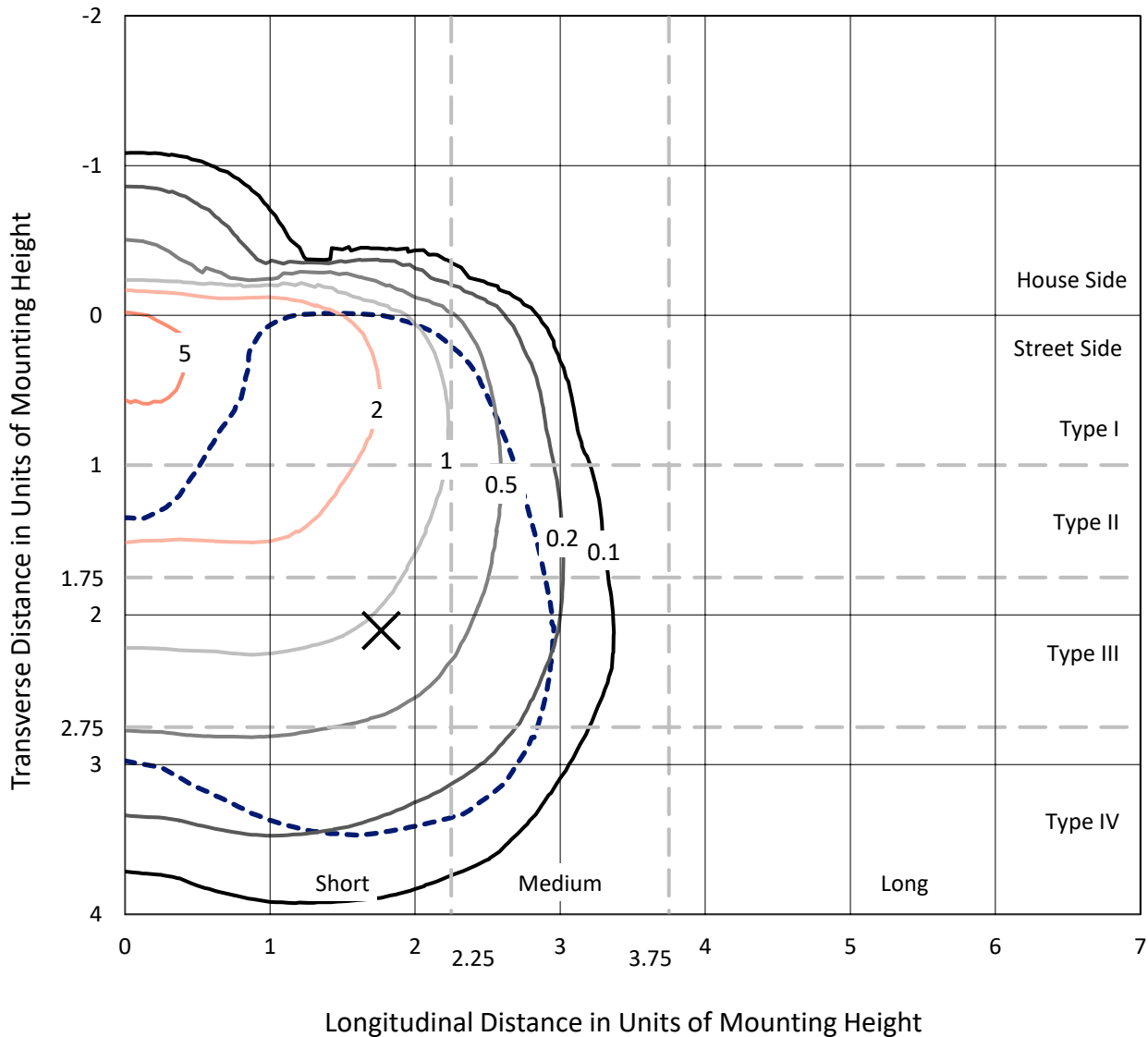
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633802
 CATALOG NUMBER: GWS-SA2F-740-U-SL4-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

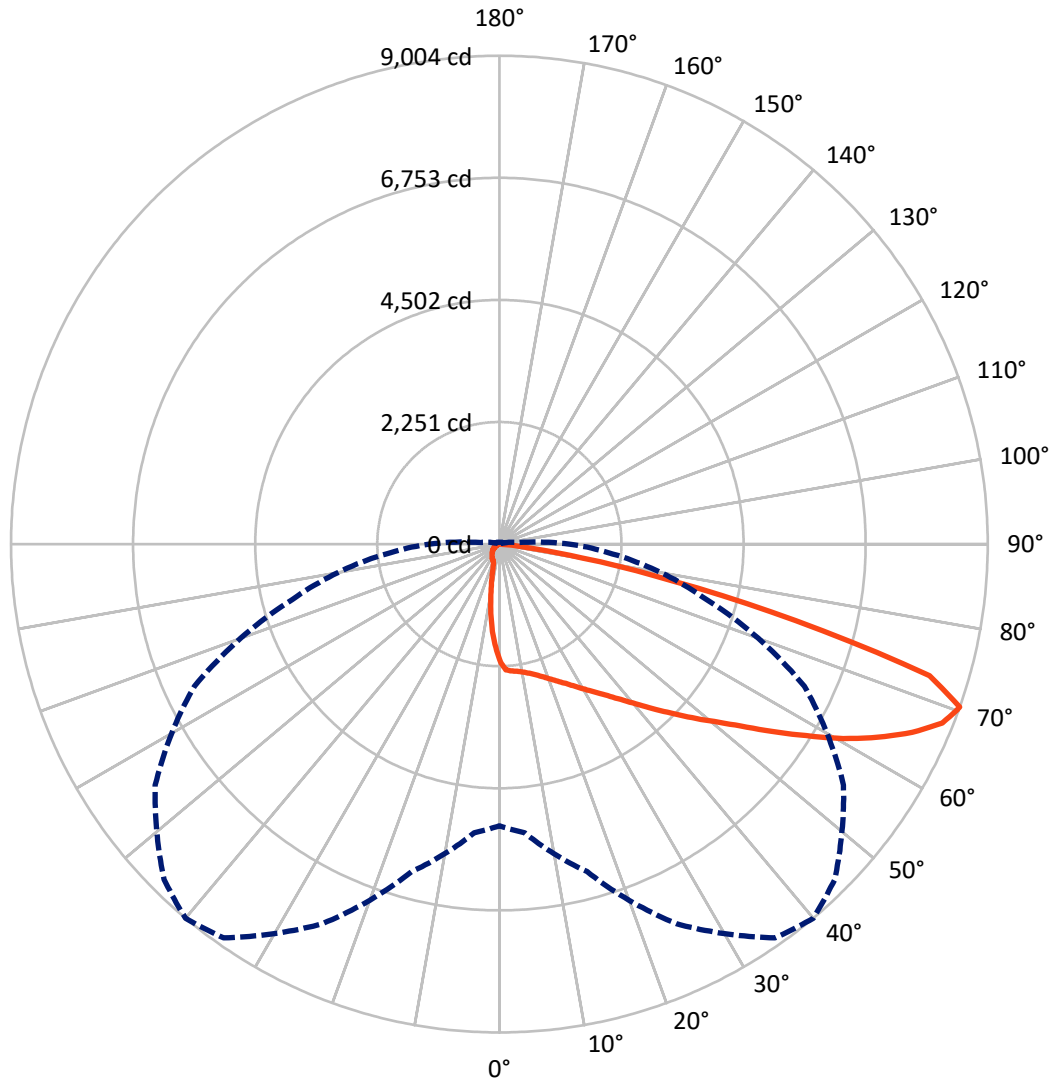
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P633802
CATALOG NUMBER: GWS-SA2F-740-U-SL4-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P633802

CATALOG NUMBER: GWS-SA2F-740-U-SL4-W-HSS

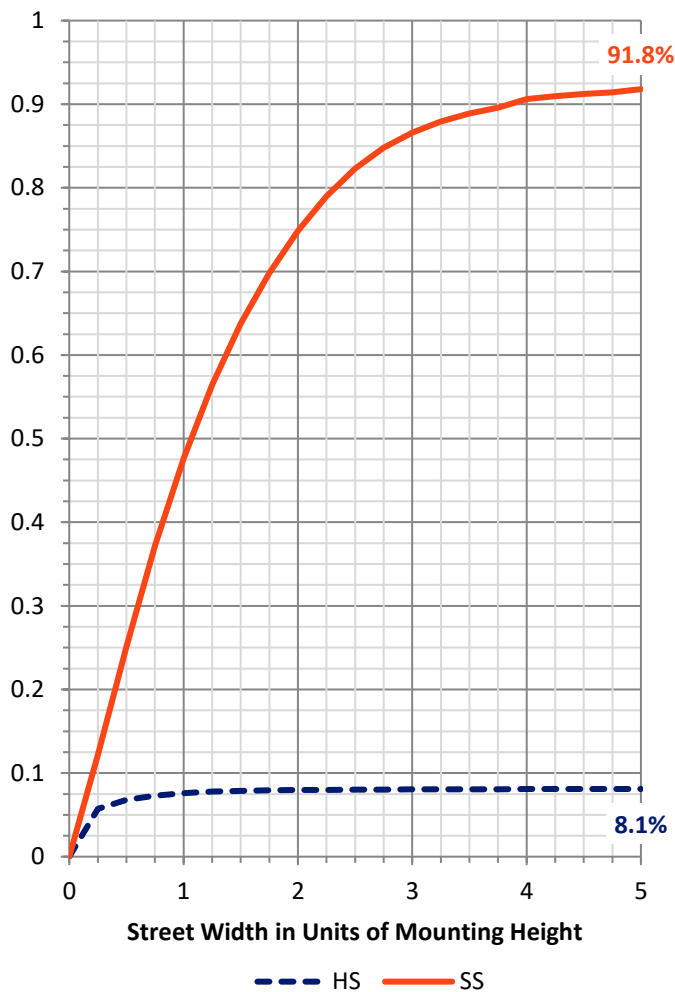
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1045.2	0.0	1045.2
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	11736.8	0.0	11736.8
	% Fixture	91.8	0.0	91.8
Total	Lumens	12782.0	0.0	12782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	1.4
10°-20°	464.9	3.6
20°-30°	778.2	6.1
30°-40°	1222.2	9.6
40°-50°	1933.2	15.1
50°-60°	2820.1	22.1
60°-70°	3495.9	27.4
70°-80°	1768.7	13.8
80°-90°	115.5	0.9
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°	12782.0	100.0
0°-180°	12782.0	100.0

Coefficient of Utilization



REPORT NUMBER: P633802

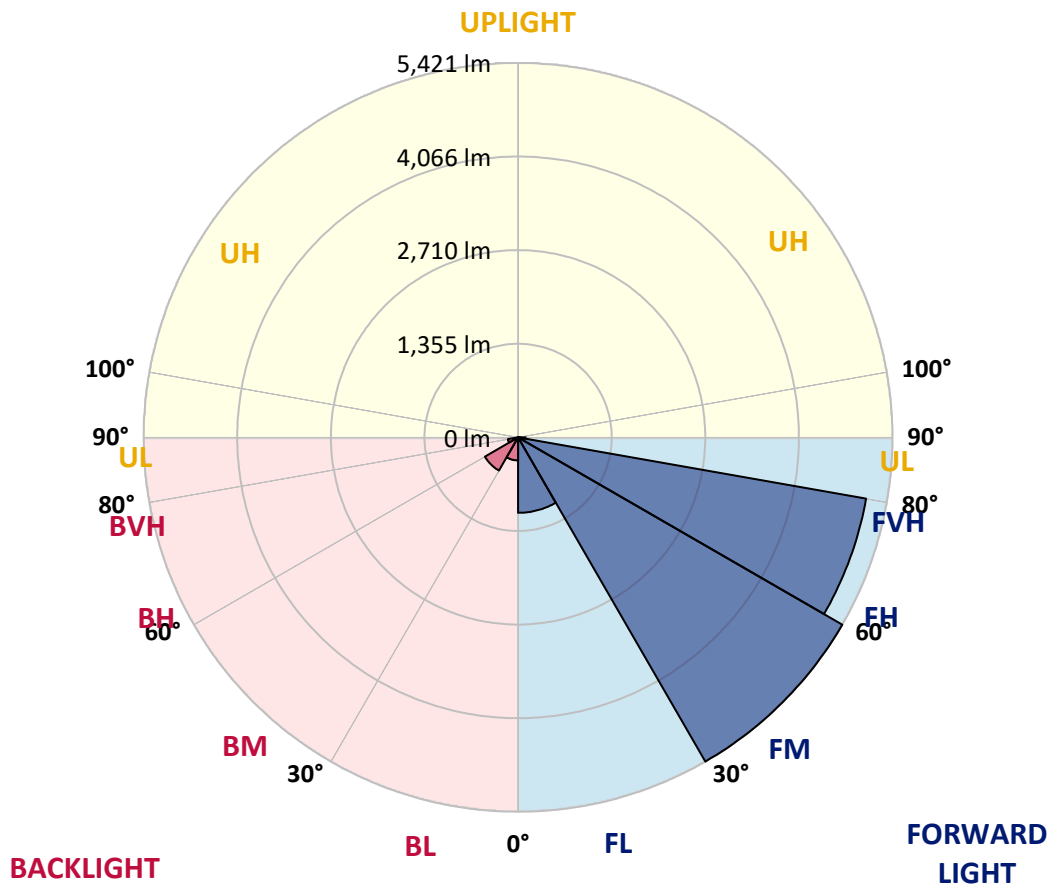
CATALOG NUMBER: GWS-SA2F-740-U-SL4-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1092.6	8.5			
FM (30°-60°)	5420.7	42.4			
FH (60°-80°)	5115.6	40.0			G3/7500
FVH (80°-90°)	107.8	0.8			G2/225
BL (0°-30°)	333.8	2.6	B1/500		
BM (30°-60°)	554.8	4.3	B1/1000		
BH (60°-80°)	149.0	1.2	B1/500		G1/500
BVH (80°-90°)	7.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P633802

CATALOG NUMBER: GWS-SA2F-740-U-SL4-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2169.0	2169.0	2169.0	2169.0	2169.0	2169.0	2169.0	2169.0	2169.0	2169.0	2169.0
2.5°	2331.8	2339.9	2338.7	2342.2	2334.1	2321.3	2319.0	2301.5	2270.1	2230.6	2186.4
5°	2379.5	2388.8	2381.8	2378.3	2363.2	2349.2	2345.7	2327.1	2291.1	2237.6	2160.8
7.5°	2420.2	2422.5	2417.8	2409.7	2387.6	2369.0	2356.2	2330.6	2287.6	2234.1	2145.7
10°	2427.1	2426.0	2428.3	2429.5	2415.5	2399.2	2388.8	2353.9	2299.2	2242.2	2146.9
12.5°	2419.0	2419.0	2434.1	2451.6	2451.6	2443.4	2432.9	2401.5	2337.6	2270.1	2170.1
15°	2429.5	2432.9	2462.0	2494.6	2505.1	2496.9	2492.3	2459.7	2393.4	2319.0	2212.0
17.5°	2466.7	2470.2	2516.7	2565.5	2578.3	2569.0	2559.7	2527.1	2456.2	2374.8	2259.7
20°	2521.3	2530.6	2589.9	2652.8	2664.4	2652.8	2634.1	2588.8	2517.8	2435.3	2305.0
22.5°	2621.4	2627.2	2691.1	2757.4	2763.2	2744.6	2716.7	2653.9	2579.5	2499.2	2356.2
25°	2753.9	2762.1	2826.0	2890.0	2874.9	2847.0	2808.6	2737.6	2652.8	2574.8	2421.3
27.5°	2912.1	2921.4	2984.2	3040.0	3000.5	2967.9	2924.9	2836.5	2750.4	2679.5	2505.1
30°	3083.1	3091.2	3147.0	3197.0	3144.7	3106.3	3055.1	2964.4	2877.2	2823.7	2623.7
32.5°	3248.2	3247.0	3300.5	3341.2	3287.7	3257.5	3211.0	3119.1	3049.3	3026.1	2800.4
35°	3401.7	3401.7	3445.9	3486.6	3448.2	3431.9	3388.9	3315.6	3276.1	3304.0	3036.5
37.5°	3556.4	3548.2	3590.1	3635.5	3632.0	3633.1	3608.7	3573.8	3576.2	3675.0	3361.0
40°	3684.3	3680.8	3729.7	3789.0	3835.5	3872.7	3857.6	3870.4	3943.7	4128.6	3776.2
42.5°	3786.7	3794.8	3857.6	3951.8	4069.3	4144.9	4155.3	4207.7	4396.1	4682.1	4244.9
45°	3904.1	3905.3	3992.5	4136.7	4323.9	4443.7	4485.6	4620.5	4888.0	5256.7	4758.9
47.5°	4048.3	4034.4	4132.1	4334.4	4605.4	4782.2	4856.6	5025.2	5439.2	5817.2	5177.6
50°	4207.7	4182.1	4292.5	4568.2	4920.6	5141.5	5292.7	5539.3	5985.8	6277.8	5489.3
52.5°	4392.6	4368.1	4493.7	4836.8	5298.5	5567.2	5761.4	6010.3	6454.5	6629.0	5675.3
55°	4627.5	4603.1	4735.6	5159.0	5745.1	6094.0	6297.5	6506.9	6890.6	6888.3	5810.2
57.5°	4888.0	4854.3	5038.0	5566.0	6302.2	6665.0	6872.0	6974.4	7222.1	7089.5	5900.9
60°	5186.9	5156.6	5411.3	6051.0	6945.3	7281.4	7411.7	7369.8	7494.2	7208.1	5869.5
62.5°	5456.7	5442.7	5759.1	6565.0	7558.2	7842.0	7878.0	7695.4	7694.3	7210.5	5657.9
65°	5737.0	5763.7	6233.6	7157.0	8174.6	8365.3	8303.7	8018.7	7774.5	6925.5	5032.2
67.5°	5841.6	5919.6	6546.4	7691.9	8660.7	8809.6	8701.4	8180.4	7440.7	5967.2	3832.0
70°	5195.0	5341.6	6251.0	7722.2	8861.9	9003.8	8744.4	7745.4	6203.3	3953.0	2099.2
72.5°	3950.6	4121.6	5209.0	6323.1	7969.9	8293.2	7850.1	6310.3	3998.3	1731.7	704.8
75°	2210.8	2395.7	3879.7	4761.2	5350.9	5646.3	5483.4	4048.3	1771.2	452.4	210.5
77.5°	747.8	809.4	1804.9	2945.8	3532.0	3266.8	2765.6	2010.8	651.3	172.1	111.6
80°	443.1	466.4	672.2	1466.5	1858.4	1540.9	1216.5	743.1	331.4	91.9	77.9
82.5°	132.6	157.0	371.0	544.3	728.0	453.6	383.8	424.5	172.1	50.0	65.1
85°	0.0	0.0	79.1	168.6	190.7	74.4	74.4	240.7	31.4	20.9	47.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	5.8	3.5	4.7	10.5
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: P633802

CATALOG NUMBER: GWS-SA2F-740-U-SL4-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2169.0	2169.0	2169.0	2169.0	2169.0	2169.0	2169.0	2169.0	2169.0	2169.0	2169.0
2.5°	2155.0	2114.3	2066.6	2021.3	1978.2	1922.4	1895.7	1863.1	1835.2	1820.1	1828.2
5°	2112.0	2048.0	1950.3	1851.5	1751.4	1657.2	1572.3	1515.4	1464.2	1437.4	1443.3
7.5°	2074.8	1988.7	1836.3	1674.7	1514.2	1352.5	1221.1	1118.8	1039.7	1007.1	1001.3
10°	2058.5	1950.3	1735.2	1502.6	1256.0	1038.5	852.5	739.7	659.4	619.9	626.8
12.5°	2066.6	1930.5	1649.1	1333.9	1014.1	760.6	582.7	476.8	419.8	396.6	390.8
15°	2089.9	1925.9	1572.3	1161.8	782.7	531.5	402.4	359.4	347.7	345.4	345.4
17.5°	2116.6	1927.1	1493.3	987.4	594.3	394.2	344.2	336.1	332.6	330.3	331.4
20°	2143.4	1927.1	1402.6	810.6	446.6	340.8	328.0	322.1	318.7	317.5	317.5
22.5°	2175.9	1927.1	1301.4	646.6	358.2	323.3	312.8	309.4	305.9	304.7	303.5
25°	2215.5	1928.2	1189.7	505.9	325.6	308.2	300.0	296.6	293.1	290.7	290.7
27.5°	2272.5	1937.5	1066.4	394.2	307.0	294.2	287.3	283.8	280.3	276.8	276.8
30°	2355.0	1960.8	928.1	325.6	289.6	279.1	272.1	269.8	266.3	262.8	261.7
32.5°	2478.3	2001.5	785.0	291.9	273.3	262.8	254.7	252.4	248.9	245.4	244.2
35°	2650.4	2075.9	645.5	271.0	252.4	241.9	237.2	236.1	231.4	227.9	227.9
37.5°	2902.8	2196.9	511.7	250.0	234.9	226.8	221.0	218.6	214.0	210.5	209.3
40°	3211.0	2353.9	397.7	233.8	218.6	210.5	204.7	201.2	195.4	190.7	188.4
42.5°	3604.1	2545.8	314.0	216.3	203.5	195.4	190.7	183.8	175.6	168.6	167.5
45°	4013.4	2743.5	259.3	200.0	189.6	182.6	176.8	167.5	155.8	147.7	145.4
47.5°	4327.4	2866.7	226.8	182.6	174.4	168.6	161.7	150.0	136.1	126.8	124.4
50°	4551.9	2885.3	202.4	166.3	161.7	155.8	145.4	131.4	116.3	107.0	104.7
52.5°	4662.4	2801.6	182.6	151.2	147.7	141.9	129.1	114.0	97.7	88.4	86.1
55°	4712.4	2643.4	164.0	138.4	133.7	126.8	112.8	96.5	80.2	72.1	69.8
57.5°	4692.6	2409.7	147.7	125.6	119.8	111.6	96.5	79.1	66.3	58.1	57.0
60°	4546.1	2081.7	131.4	112.8	105.8	96.5	81.4	65.1	53.5	47.7	46.5
62.5°	4229.7	1674.7	115.1	97.7	93.0	83.7	69.8	53.5	44.2	40.7	39.5
65°	3582.0	1183.9	98.9	82.6	80.2	70.9	58.1	44.2	38.4	36.1	34.9
67.5°	2574.8	719.9	83.7	70.9	68.6	60.5	48.8	38.4	34.9	33.7	33.7
70°	1294.4	340.8	66.3	58.1	58.1	50.0	41.9	34.9	33.7	32.6	32.6
72.5°	439.6	145.4	50.0	45.4	47.7	43.0	36.1	32.6	32.6	32.6	32.6
75°	150.0	76.8	34.9	32.6	34.9	34.9	31.4	31.4	32.6	32.6	32.6
77.5°	97.7	51.2	24.4	22.1	26.7	26.7	26.7	29.1	31.4	31.4	31.4
80°	80.2	27.9	16.3	15.1	19.8	19.8	22.1	26.7	29.1	29.1	29.1
82.5°	68.6	17.4	9.3	10.5	14.0	15.1	18.6	22.1	25.6	26.7	26.7
85°	46.5	9.3	7.0	8.1	9.3	11.6	15.1	18.6	20.9	23.3	23.3
87.5°	12.8	3.5	4.7	5.8	5.8	8.1	11.6	14.0	16.3	17.4	17.4
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)