

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: P637488

Luminaire Tested: GWS-SA4C-830-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-830-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14809.6 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

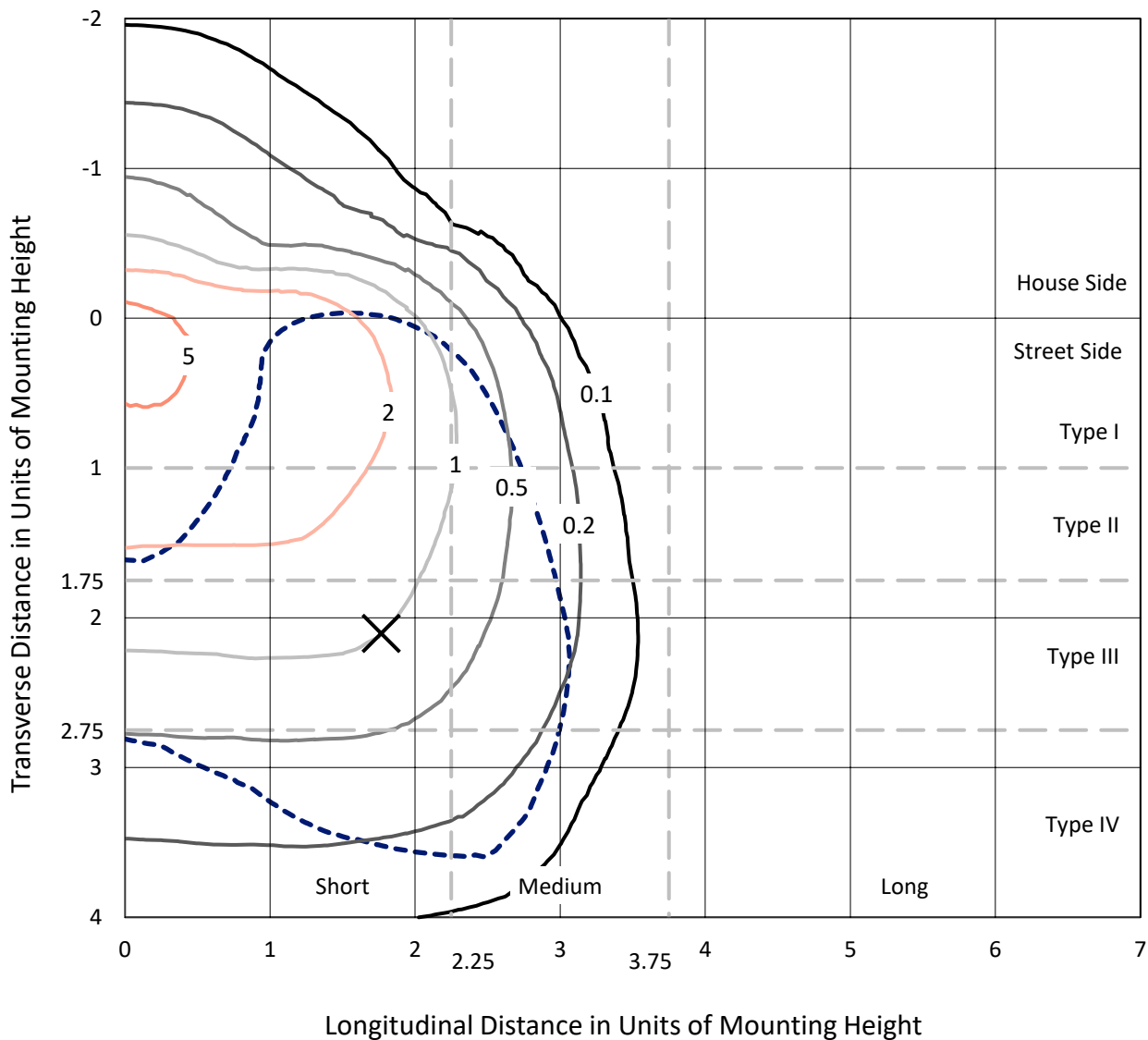
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637488
 CATALOG NUMBER: GWS-SA4C-830-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination

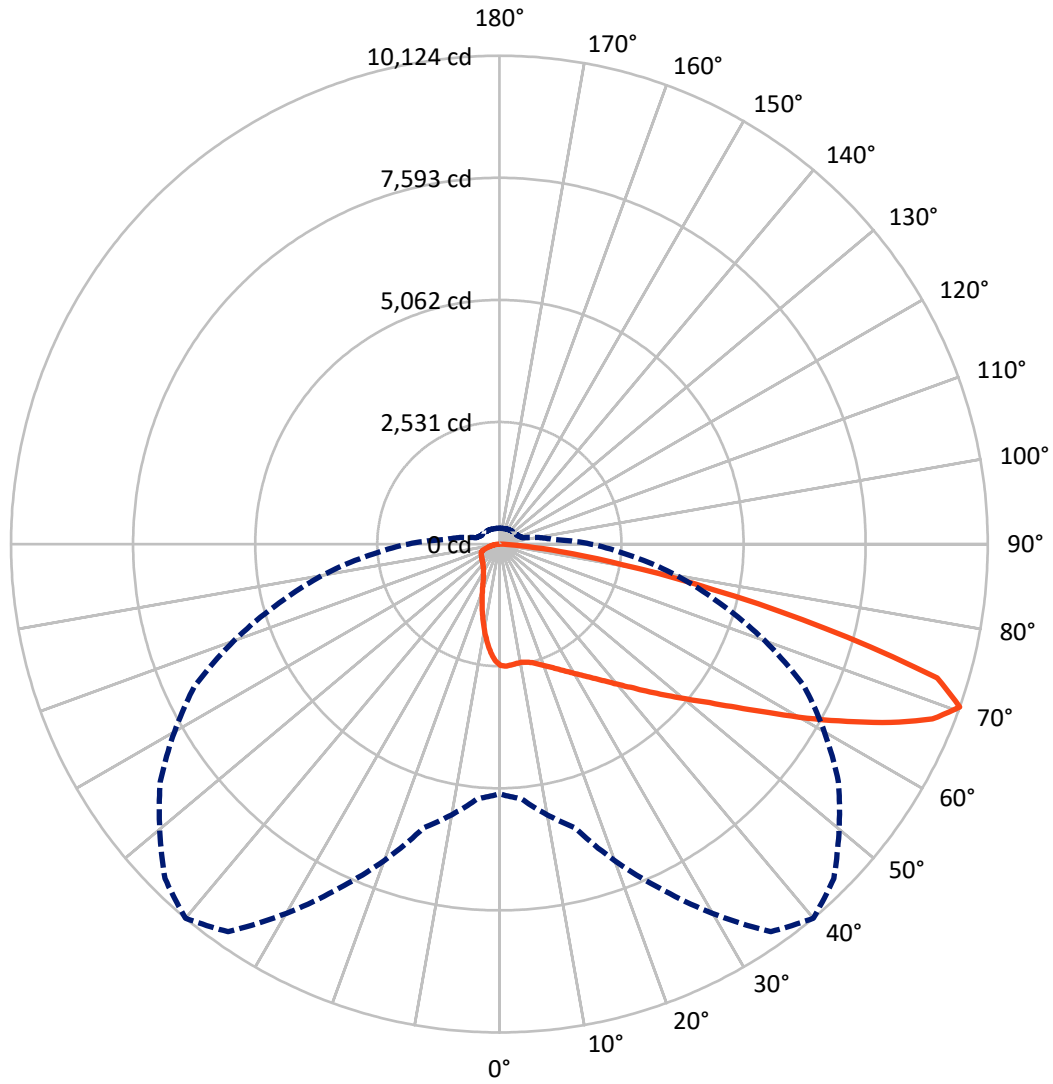
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P637488
CATALOG NUMBER: GWS-SA4C-830-U-SL4-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637488

CATALOG NUMBER: GWS-SA4C-830-U-SL4-W

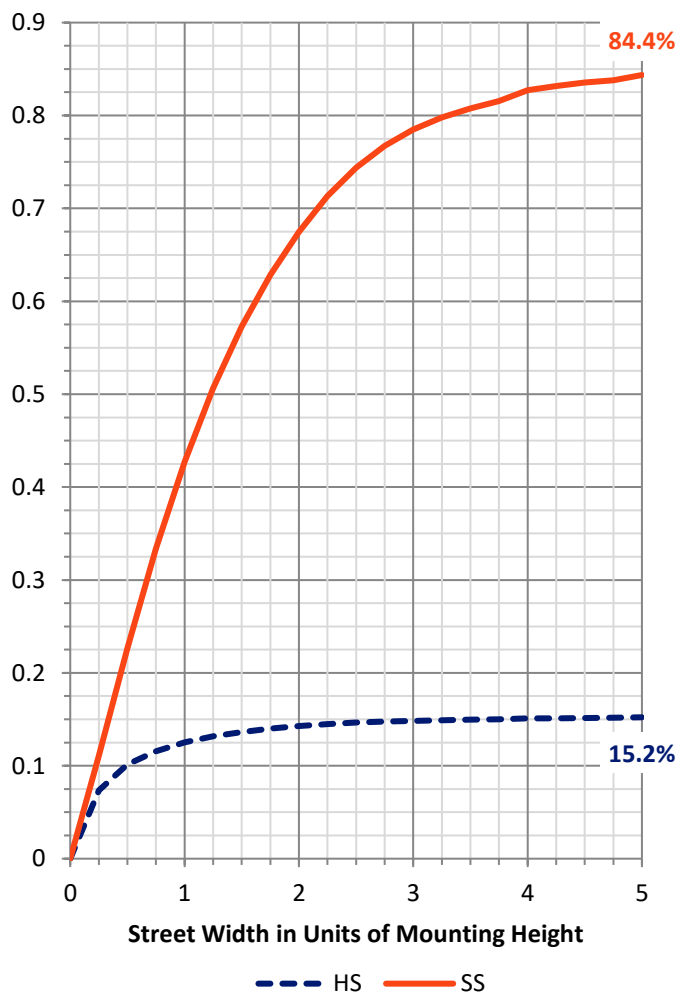
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2281.0	0.0	2281.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	12528.5	0.0	12528.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	14809.6	0.0	14809.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	1.5
10°-20°	579.1	3.9
20°-30°	909.3	6.1
30°-40°	1367.1	9.2
40°-50°	2110.2	14.2
50°-60°	3133.8	21.2
60°-70°	3950.1	26.7
70°-80°	2284.3	15.4
80°-90°	253.5	1.7
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°	14809.6	100.0
0°-180°	14809.6	100.0

Coefficient of Utilization



REPORT NUMBER: P637488

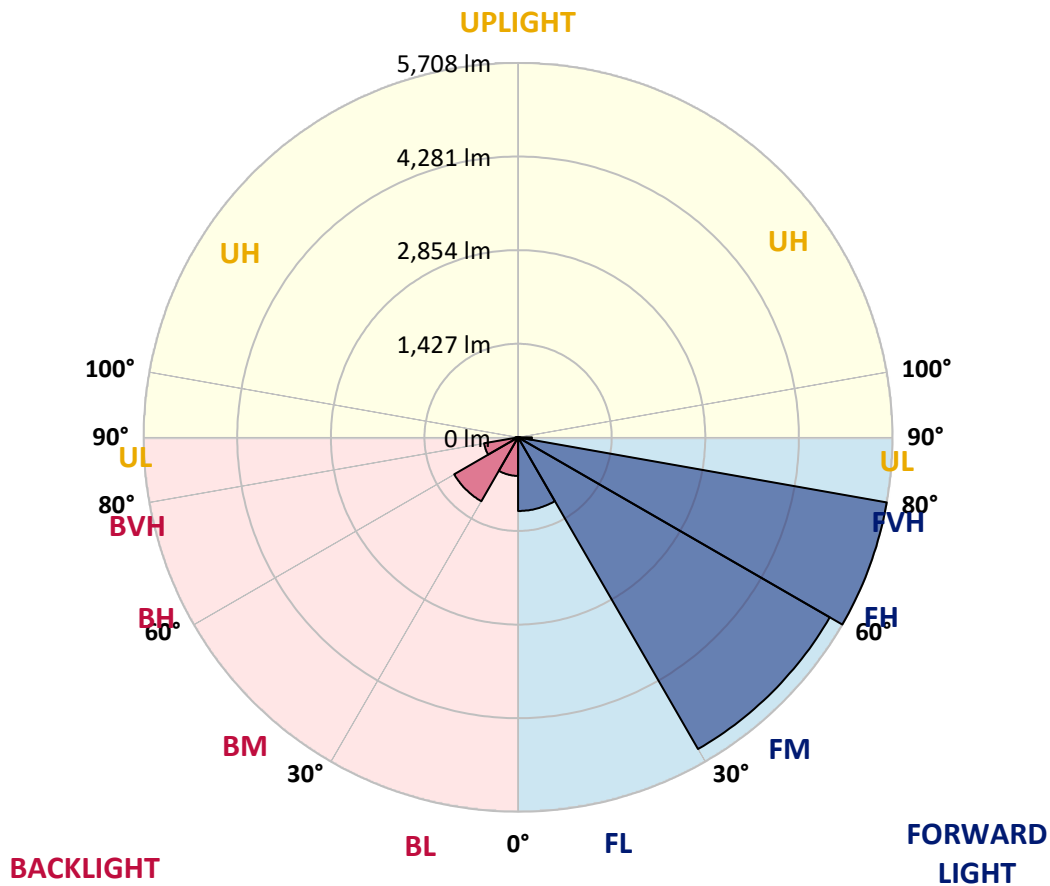
CATALOG NUMBER: GWS-SA4C-830-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1122.7	7.6			
FM (30°-60°)	5486.8	37.0			
FH (60°-80°)	5708.0	38.5			G3/7500
FVH (80°-90°)	211.1	1.4			G2/225
BL (0°-30°)	587.9	4.0	B2/1000		
BM (30°-60°)	1124.4	7.6	B2/2500		
BH (60°-80°)	526.5	3.6	B2/1000		G2/1000
BVH (80°-90°)	42.4	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 IV Short





REPORT NUMBER: P637488
 CATALOG NUMBER: GWS-SA4C-830-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8
2.5°	2530.3	2534.7	2538.1	2542.5	2540.3	2533.6	2539.2	2539.2	2527.0	2513.7	2501.6
5°	2533.6	2539.2	2538.1	2536.9	2528.1	2517.1	2517.1	2510.4	2489.4	2468.4	2448.5
7.5°	2527.0	2525.9	2524.8	2521.5	2511.5	2499.4	2497.2	2483.9	2456.3	2427.5	2398.8
10°	2497.2	2496.0	2499.4	2507.1	2504.9	2493.8	2493.8	2481.7	2449.6	2414.2	2376.7
12.5°	2472.8	2472.8	2486.1	2507.1	2514.8	2510.4	2511.5	2502.7	2466.2	2424.2	2380.0
15°	2476.2	2477.3	2506.0	2540.3	2554.6	2551.3	2552.4	2542.5	2501.6	2459.6	2399.9
17.5°	2498.3	2503.8	2553.5	2601.1	2619.9	2615.4	2607.7	2591.1	2544.7	2497.2	2424.2
20°	2544.7	2553.5	2617.6	2677.3	2699.4	2689.5	2676.2	2643.1	2592.2	2540.3	2450.7
22.5°	2636.4	2642.0	2712.7	2771.3	2789.0	2776.8	2750.3	2702.8	2644.2	2590.0	2482.8
25°	2765.8	2772.4	2839.8	2894.0	2889.6	2875.2	2838.7	2780.1	2710.5	2653.0	2529.2
27.5°	2919.4	2930.5	2996.8	3039.9	3011.2	2990.2	2949.3	2878.5	2800.0	2748.1	2600.0
30°	3087.4	3091.9	3148.2	3191.4	3147.1	3118.4	3068.7	2992.4	2921.6	2882.9	2706.1
32.5°	3249.9	3254.4	3303.0	3327.3	3280.9	3259.9	3216.8	3136.1	3086.3	3065.3	2864.2
35°	3421.3	3420.2	3460.0	3481.0	3433.4	3424.6	3380.4	3318.5	3309.6	3337.3	3095.2
37.5°	3592.6	3582.7	3603.7	3631.3	3604.8	3613.6	3584.9	3563.9	3598.2	3670.0	3402.5
40°	3729.7	3729.7	3751.8	3786.1	3794.9	3833.6	3817.0	3844.7	3955.2	4126.5	3782.8
42.5°	3851.3	3852.4	3898.8	3951.9	4016.0	4075.7	4089.0	4160.8	4389.6	4658.3	4260.3
45°	3978.4	3979.5	4042.5	4119.9	4255.9	4369.7	4396.3	4557.7	4884.9	5212.1	4778.7
47.5°	4125.4	4113.3	4200.6	4329.9	4523.4	4687.0	4755.5	4984.4	5397.8	5800.2	5267.3
50°	4291.3	4265.8	4363.1	4586.4	4825.2	5049.6	5164.5	5426.5	5948.3	6342.9	5727.2
52.5°	4478.1	4463.7	4565.4	4837.3	5202.1	5460.8	5616.7	5960.4	6483.3	6883.5	6092.0
55°	4710.2	4675.9	4823.0	5169.0	5644.3	5973.7	6158.3	6488.8	7068.1	7374.3	6370.6
57.5°	4964.5	4926.9	5123.6	5583.5	6219.1	6580.6	6811.6	7083.6	7618.6	7750.1	6534.2
60°	5238.6	5226.4	5459.7	6069.9	6904.5	7324.5	7491.5	7738.0	8097.2	7967.9	6493.3
62.5°	5489.5	5485.1	5824.5	6597.2	7630.7	8092.8	8225.5	8290.7	8442.1	7953.5	6168.3
65°	5753.7	5791.3	6250.1	7208.5	8463.1	8916.4	8971.6	8805.8	8558.2	7576.6	5502.8
67.5°	5786.9	5859.9	6517.6	7781.1	9252.4	9680.2	9636.0	9001.5	8215.5	6527.5	4313.4
70°	5175.6	5302.7	6090.9	7868.4	9808.4	10123.5	9804.0	8580.3	6971.9	4729.0	2712.7
72.5°	4324.4	4433.9	5130.3	6709.9	9091.0	9492.3	9060.1	7262.6	4926.9	2712.7	1381.8
75°	3366.0	3493.1	4135.4	5333.7	6806.1	6966.4	6749.7	5065.1	2708.3	1118.7	627.9
77.5°	2053.9	2145.6	2645.3	3613.6	4762.2	4522.3	3832.5	2839.8	1188.3	536.1	388.0
80°	908.7	965.0	1303.3	1941.1	2751.4	2601.1	2050.6	1212.7	650.0	340.5	270.8
82.5°	487.5	524.0	642.3	768.3	1208.2	1263.5	1024.7	698.6	349.3	194.6	154.8
85°	214.5	235.5	291.8	278.6	396.8	390.2	393.5	479.8	166.9	89.5	100.6
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	12.2	64.1	16.6	26.5	23.2
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: P637488
 CATALOG NUMBER: GWS-SA4C-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8
2.5°	2488.3	2468.4	2462.9	2456.3	2444.1	2423.1	2407.6	2389.9	2382.2	2373.3	2374.5
5°	2426.4	2402.1	2378.9	2349.0	2311.4	2269.4	2240.7	2207.5	2189.8	2173.3	2177.7
7.5°	2373.3	2335.8	2288.2	2225.2	2157.8	2082.6	2021.8	1974.3	1942.2	1920.1	1931.2
10°	2340.2	2296.0	2213.1	2110.3	1996.4	1881.4	1794.1	1712.3	1661.5	1621.7	1619.4
12.5°	2333.6	2276.1	2155.6	2006.3	1841.6	1688.0	1559.8	1449.2	1381.8	1332.0	1350.8
15°	2340.2	2267.2	2105.8	1910.2	1702.4	1494.5	1335.4	1208.2	1127.5	1082.2	1078.9
17.5°	2347.9	2258.4	2049.5	1806.3	1556.4	1318.8	1134.2	999.3	916.4	871.1	872.2
20°	2354.6	2245.1	1983.1	1692.4	1408.3	1155.2	963.9	835.7	761.6	728.5	734.0
22.5°	2365.6	2231.9	1912.4	1570.8	1256.9	997.1	829.1	725.2	680.9	658.8	659.9
25°	2386.6	2224.1	1839.4	1438.2	1107.6	871.1	736.2	666.6	638.9	625.7	624.6
27.5°	2429.7	2230.7	1763.2	1309.9	972.8	774.9	676.5	631.2	612.4	603.6	602.5
30°	2501.6	2257.3	1696.8	1179.5	856.7	699.7	635.6	608.0	596.9	589.2	588.1
32.5°	2611.0	2307.0	1625.0	1057.9	762.7	644.5	603.6	589.2	581.5	577.0	577.0
35°	2776.8	2397.7	1554.2	951.8	689.8	601.4	578.1	572.6	566.0	563.8	566.0
37.5°	3015.6	2542.5	1490.1	858.9	637.8	568.2	550.5	552.7	547.2	550.5	553.8
40°	3318.5	2735.9	1435.9	782.6	599.1	543.9	526.2	533.9	530.6	533.9	539.4
42.5°	3702.1	2975.8	1395.0	722.9	571.5	524.0	507.4	515.1	512.9	517.3	522.9
45°	4129.9	3292.0	1376.3	680.9	551.6	509.6	491.9	497.4	495.2	498.5	504.1
47.5°	4540.0	3579.4	1392.8	656.6	535.0	497.4	478.6	480.9	479.8	478.6	482.0
50°	4893.7	3808.2	1440.4	648.9	524.0	485.3	467.6	468.7	465.4	458.8	461.0
52.5°	5182.2	3991.7	1469.1	648.9	518.4	472.0	455.4	456.5	449.9	441.1	442.2
55°	5372.4	4065.7	1445.9	647.8	516.2	461.0	443.3	444.4	437.7	426.7	427.8
57.5°	5426.5	3993.9	1348.6	635.6	514.0	452.1	431.1	433.3	428.9	416.7	416.7
60°	5275.1	3730.8	1170.6	608.0	508.5	446.6	422.3	425.6	423.4	411.2	411.2
62.5°	4878.2	3263.2	958.4	566.0	493.0	440.0	414.5	421.2	426.7	420.1	419.0
65°	4135.4	2614.3	779.3	519.5	473.1	428.9	403.5	420.1	432.2	441.1	441.1
67.5°	3102.9	1871.5	635.6	470.9	443.3	406.8	389.1	404.6	413.4	419.0	422.3
70°	1891.4	1101.0	500.8	414.5	400.2	373.6	360.4	344.9	332.7	330.5	331.6
72.5°	925.2	630.1	406.8	352.6	341.6	317.3	287.4	280.8	275.3	271.9	270.8
75°	509.6	438.9	336.0	292.9	273.0	243.2	236.6	225.5	223.3	218.9	220.0
77.5°	360.4	346.0	277.5	237.7	207.8	192.3	195.7	187.9	187.9	184.6	183.5
80°	270.8	271.9	213.3	173.6	153.7	148.1	151.4	151.4	149.2	148.1	147.0
82.5°	171.3	193.4	143.7	111.6	109.4	110.5	109.4	108.3	110.5	107.2	106.1
85°	118.3	139.3	87.3	66.3	66.3	65.2	67.4	66.3	68.5	65.2	65.2
87.5°	26.5	61.9	32.1	19.9	21.0	19.9	21.0	22.1	24.3	25.4	25.4
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)