

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: P636987

Luminaire Tested: GWS-SA4B-830-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-830-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11299.2 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

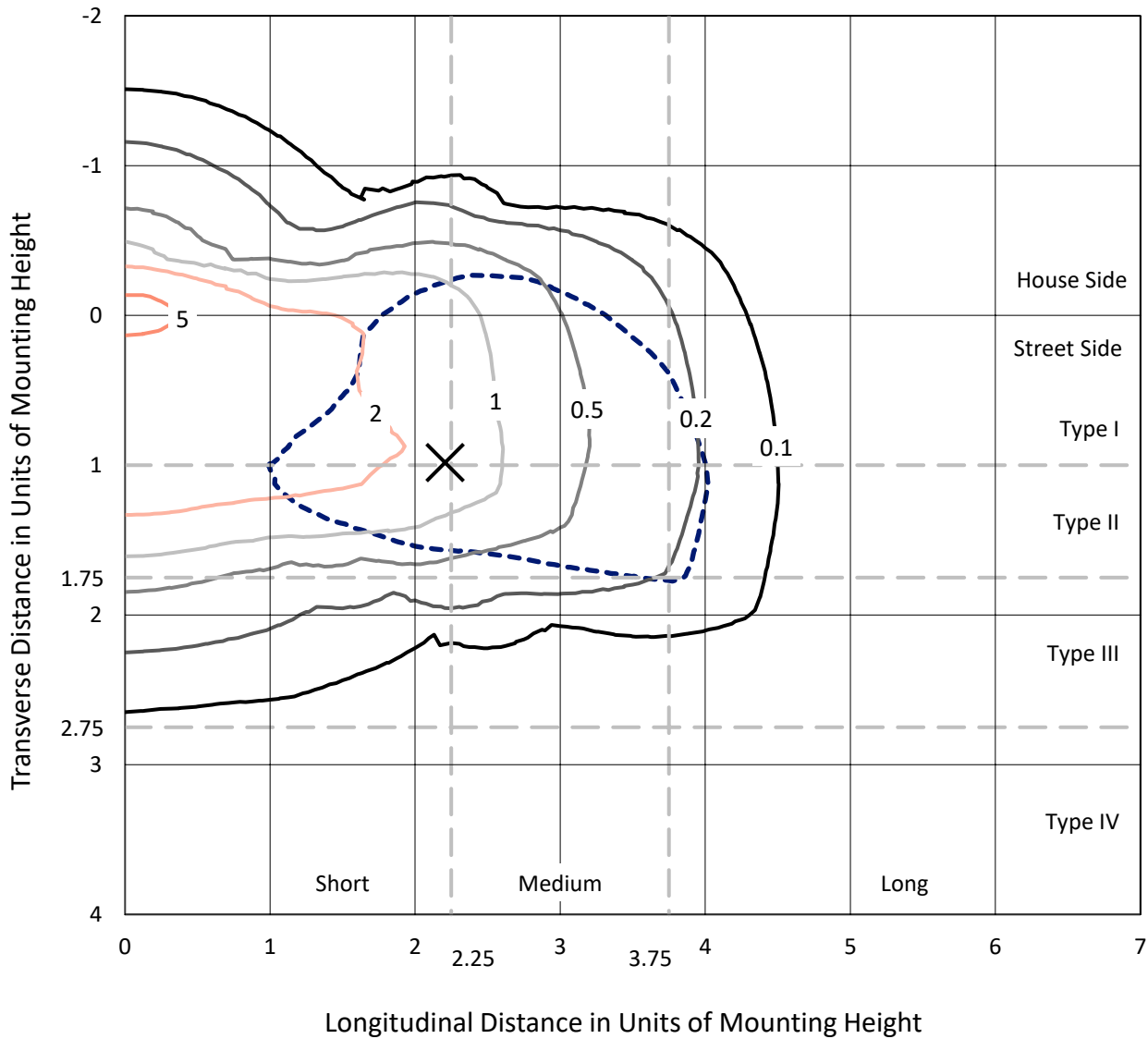
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636987
 CATALOG NUMBER: GWS-SA4B-830-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination

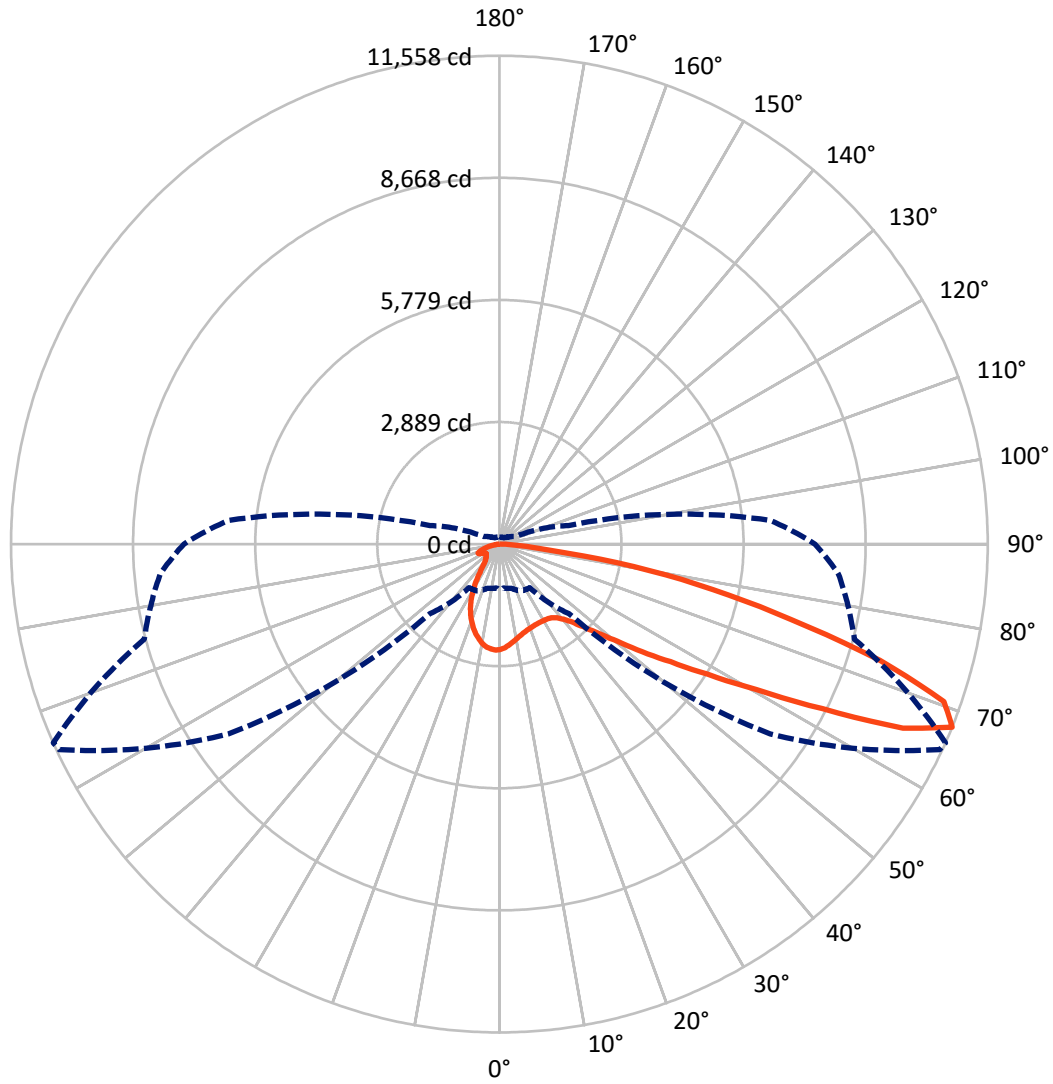
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

REPORT NUMBER: P636987
CATALOG NUMBER: GWS-SA4B-830-U-SL2-W

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P636987

CATALOG NUMBER: GWS-SA4B-830-U-SL2-W

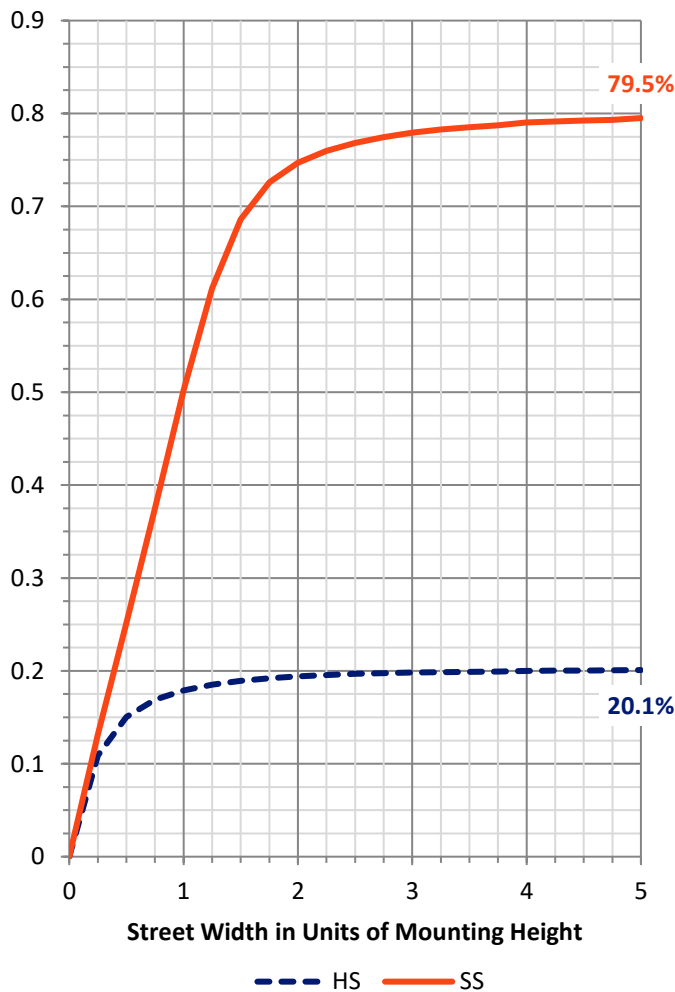
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2292.9	0.0	2292.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	9006.3	0.0	9006.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	11299.2	0.0	11299.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.1	1.9
10°-20°	538.5	4.8
20°-30°	740.2	6.6
30°-40°	1012.0	9.0
40°-50°	1533.5	13.6
50°-60°	2383.8	21.1
60°-70°	2902.2	25.7
70°-80°	1767.9	15.6
80°-90°	201.9	1.8
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°	11299.2	100.0
0°-180°	11299.2	100.0

Coefficient of Utilization



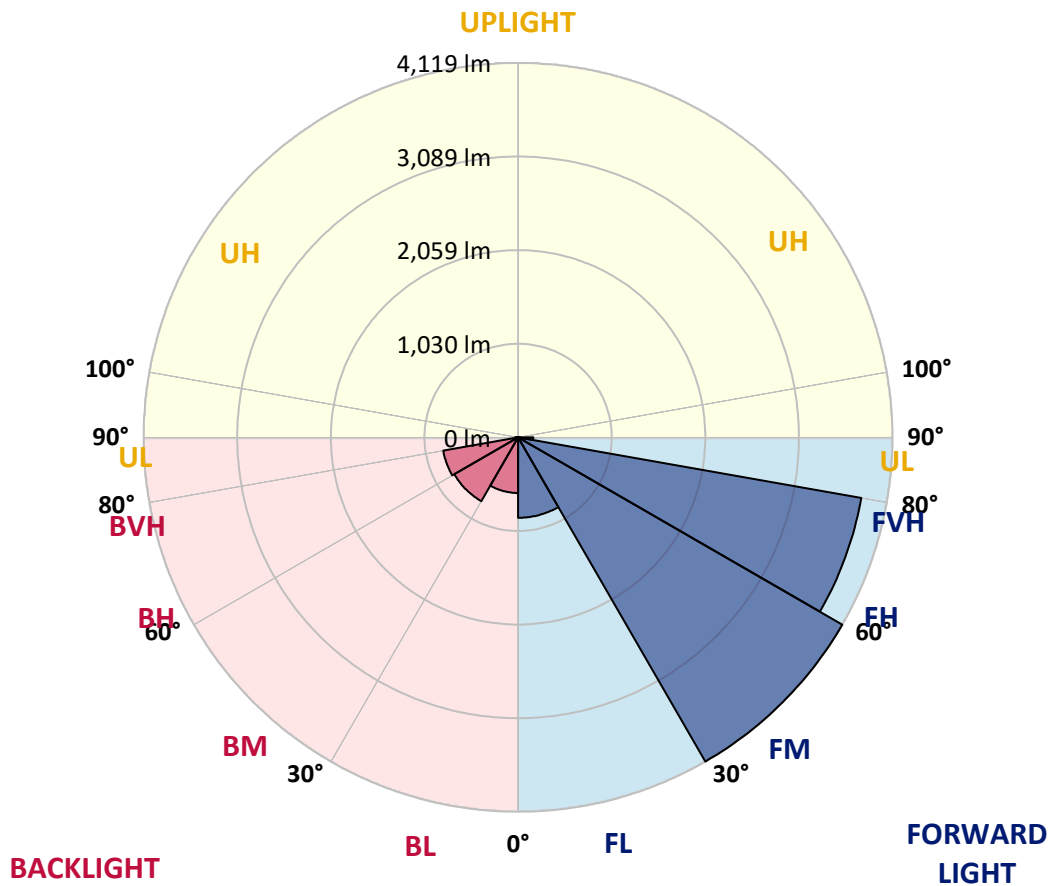
REPORT NUMBER: P636987

CATALOG NUMBER: GWS-SA4B-830-U-SL2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.3	7.8			
FM (30°-60°)	4119.0	36.5			
FH (60°-80°)	3834.1	33.9			G2/5000
FVH (80°-90°)	167.9	1.5			G2/225
BL (0°-30°)	612.5	5.4	B2/1000		
BM (30°-60°)	810.3	7.2	B1/1000		
BH (60°-80°)	836.0	7.4	B2/1000		G2/1000
BVH (80°-90°)	34.0	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-G2
 Type II Short





REPORT NUMBER: P636987
 CATALOG NUMBER: GWS-SA4B-830-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8
2.5°	2338.5	2346.8	2341.8	2373.2	2374.8	2414.4	2436.6	2455.6	2457.2	2482.0	2498.5
5°	2178.6	2183.6	2183.6	2213.2	2233.0	2285.8	2336.9	2391.3	2395.4	2454.8	2500.1
7.5°	2049.2	2054.2	2050.9	2090.4	2116.0	2174.5	2239.6	2322.9	2331.1	2426.7	2505.9
10°	1947.8	1946.2	1954.4	1990.7	2023.7	2093.7	2166.3	2261.1	2273.4	2394.6	2512.5
12.5°	1878.6	1880.2	1885.2	1923.1	1958.5	2027.8	2102.8	2205.8	2219.0	2357.5	2509.2
15°	1845.6	1842.3	1846.4	1881.1	1914.8	1975.8	2053.3	2159.7	2172.9	2324.5	2510.0
17.5°	1838.2	1835.7	1834.9	1859.6	1885.2	1942.0	2016.2	2124.2	2138.2	2303.1	2514.9
20°	1861.3	1858.0	1848.9	1859.6	1870.3	1918.1	1989.9	2098.7	2114.3	2289.1	2524.8
22.5°	1924.7	1919.0	1905.0	1891.8	1877.8	1906.6	1973.4	2079.7	2095.4	2280.0	2534.7
25°	2021.2	2016.2	2001.4	1971.7	1920.6	1915.7	1970.1	2071.5	2087.1	2273.4	2538.8
27.5°	2153.9	2146.5	2131.6	2088.8	2005.5	1949.5	1982.4	2070.6	2085.5	2266.0	2534.7
30°	2311.3	2306.4	2298.1	2246.2	2134.9	2021.2	2010.5	2077.2	2088.8	2261.9	2526.5
32.5°	2471.2	2466.3	2472.9	2448.2	2311.3	2139.9	2071.5	2095.4	2103.6	2261.1	2519.1
35°	2612.2	2618.0	2665.8	2669.9	2535.5	2300.6	2167.9	2137.4	2139.1	2277.5	2522.4
37.5°	2759.8	2782.0	2844.7	2898.2	2786.1	2513.3	2311.3	2216.5	2214.9	2319.6	2543.0
40°	2955.1	2965.0	3045.0	3145.5	3075.5	2805.1	2514.9	2346.0	2334.4	2405.3	2598.2
42.5°	3145.5	3169.4	3297.2	3412.6	3389.5	3134.0	2771.3	2539.7	2519.1	2557.0	2711.9
45°	3387.9	3411.0	3554.4	3702.8	3744.8	3505.7	3099.4	2815.0	2794.4	2785.3	2920.5
47.5°	3630.2	3654.1	3782.7	3997.0	4144.6	3970.6	3526.4	3178.5	3144.7	3109.3	3235.4
50°	3793.4	3821.5	3944.3	4201.5	4547.7	4551.0	4032.5	3654.9	3612.1	3556.0	3678.8
52.5°	3787.7	3805.8	3922.8	4219.6	4837.8	5217.8	4710.0	4261.6	4227.0	4105.0	4212.2
55°	3490.1	3517.3	3635.2	4006.1	4869.1	5850.1	5705.8	4977.1	4915.3	4696.9	4814.7
57.5°	2892.5	2915.5	3034.2	3491.7	4591.3	6174.0	6970.3	5888.8	5803.9	5341.5	5477.5
60°	2183.6	2155.5	2211.6	2612.2	3927.0	6182.2	8086.4	7125.2	6983.5	6030.6	6144.3
62.5°	1638.7	1610.7	1623.0	1736.0	2662.5	5682.7	8722.7	8816.7	8582.6	6808.7	6786.5
65°	1295.0	1279.3	1314.8	1392.2	1552.2	4327.6	8727.7	10645.8	10498.3	7710.5	7445.1
67.5°	1055.1	1045.2	1081.5	1224.9	1258.7	2325.3	7825.9	11499.8	11557.5	8698.0	8055.9
70°	849.9	835.0	891.9	1080.7	1170.5	1407.1	5606.1	11064.6	11157.7	9286.6	7883.6
72.5°	586.9	587.7	616.6	875.4	1130.1	1215.0	3171.1	9213.2	9415.1	8753.2	6930.7
75°	395.7	399.0	407.2	577.8	1041.1	1178.7	1689.8	6975.2	7117.8	7234.9	5728.9
77.5°	239.0	240.7	259.7	349.5	718.0	1100.4	1145.0	5056.3	5168.4	4769.4	3551.1
80°	138.5	144.3	161.6	234.1	484.7	826.8	886.1	3100.2	3227.1	2120.1	1128.5
82.5°	61.0	65.1	88.2	136.0	282.7	703.1	691.6	1224.9	1206.8	591.0	391.5
85°	10.7	13.2	19.0	42.9	103.9	370.9	536.6	540.7	508.6	224.2	162.4
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	80.8	145.1	144.3	63.5	56.1
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: P636987
 CATALOG NUMBER: GWS-SA4B-830-U-SL2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8
2.5°	2509.2	2486.9	2506.7	2509.2	2505.0	2501.7	2477.0	2455.6	2453.1	2430.0	2430.0
5°	2518.2	2497.6	2507.5	2488.6	2458.9	2428.4	2375.6	2339.4	2322.9	2293.2	2293.2
7.5°	2530.6	2509.2	2497.6	2450.6	2381.4	2314.6	2229.7	2158.8	2130.0	2087.9	2086.3
10°	2542.1	2514.9	2475.4	2383.9	2273.4	2167.1	2043.4	1942.9	1874.5	1824.2	1824.2
12.5°	2541.3	2505.9	2427.6	2292.4	2139.9	1985.7	1820.9	1669.2	1578.5	1500.2	1495.3
15°	2539.7	2491.0	2366.6	2186.0	1984.1	1770.6	1546.4	1348.6	1214.2	1137.5	1130.9
17.5°	2538.0	2472.1	2298.1	2064.9	1794.5	1503.5	1207.6	993.3	881.2	834.2	835.8
20°	2538.0	2450.6	2224.8	1925.6	1576.1	1183.7	886.1	730.3	702.3	704.8	707.2
22.5°	2530.6	2424.3	2143.2	1773.9	1332.9	870.5	653.7	600.9	615.8	638.8	642.1
25°	2513.3	2380.6	2048.4	1605.7	1043.6	633.9	533.3	523.4	550.6	579.5	587.7
27.5°	2486.1	2330.3	1942.0	1408.7	768.2	509.4	469.0	468.2	489.6	511.1	518.5
30°	2457.2	2274.2	1829.9	1189.5	556.4	443.5	427.8	427.8	438.5	451.7	450.1
32.5°	2423.4	2217.4	1709.6	961.1	453.4	406.4	401.4	399.0	400.6	405.6	405.6
35°	2394.6	2167.1	1586.0	719.6	406.4	385.8	380.8	375.1	372.6	369.3	370.9
37.5°	2383.9	2127.5	1458.2	542.4	383.3	370.9	362.7	354.4	348.7	347.0	346.2
40°	2401.2	2111.0	1330.4	446.8	366.8	355.3	346.2	335.5	330.5	330.5	330.5
42.5°	2468.8	2123.4	1200.2	403.9	355.3	342.1	328.9	319.0	317.4	319.0	319.8
45°	2592.4	2171.2	1065.0	382.5	345.4	328.9	313.2	305.8	305.8	307.5	307.5
47.5°	2813.3	2296.5	931.5	369.3	335.5	318.2	301.7	294.3	293.5	295.1	295.1
50°	3195.8	2522.4	811.1	360.2	328.1	309.9	293.5	283.6	281.1	280.3	280.3
52.5°	3678.0	2913.9	734.5	353.6	319.0	300.9	284.4	271.2	266.2	263.8	263.8
55°	4260.8	3435.7	734.5	348.7	307.5	290.2	271.2	258.0	250.6	247.3	247.3
57.5°	4921.1	4043.2	861.4	344.6	298.4	277.8	257.2	244.0	235.7	230.8	230.8
60°	5592.9	4685.3	1175.5	338.8	290.2	262.1	241.5	229.2	218.4	212.7	211.8
62.5°	6289.4	5392.6	1589.2	342.1	284.4	247.3	225.0	211.0	202.0	196.2	195.4
65°	6927.4	6066.0	1951.1	367.6	285.2	234.1	206.1	193.7	186.3	178.9	178.0
67.5°	7469.0	6437.8	1697.2	419.6	302.5	218.4	187.1	174.8	168.2	163.2	162.4
70°	7089.8	5870.7	962.8	451.7	326.4	202.0	165.7	157.4	150.8	147.5	146.7
72.5°	6062.7	4970.5	643.8	399.0	297.6	180.5	145.9	139.3	134.4	130.2	129.4
75°	4911.2	3941.8	492.1	327.2	231.6	146.7	125.3	120.3	115.4	111.3	110.5
77.5°	2905.7	2277.5	362.7	258.8	163.2	114.6	103.9	99.7	94.8	91.5	90.7
80°	927.3	791.3	230.0	178.0	108.0	88.2	80.0	76.7	71.7	67.6	66.8
82.5°	353.6	305.8	122.0	90.7	71.7	60.2	53.6	50.3	47.0	42.9	42.0
85°	156.6	146.7	67.6	48.6	38.7	29.7	26.4	24.7	20.6	17.3	16.5
87.5°	55.2	55.2	28.9	14.0	8.2	4.1	2.5	0.8	0.0	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)