

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: P634023

Luminaire Tested: GWS-SA2F-830-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634023
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-SA2F-830-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12376.6 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

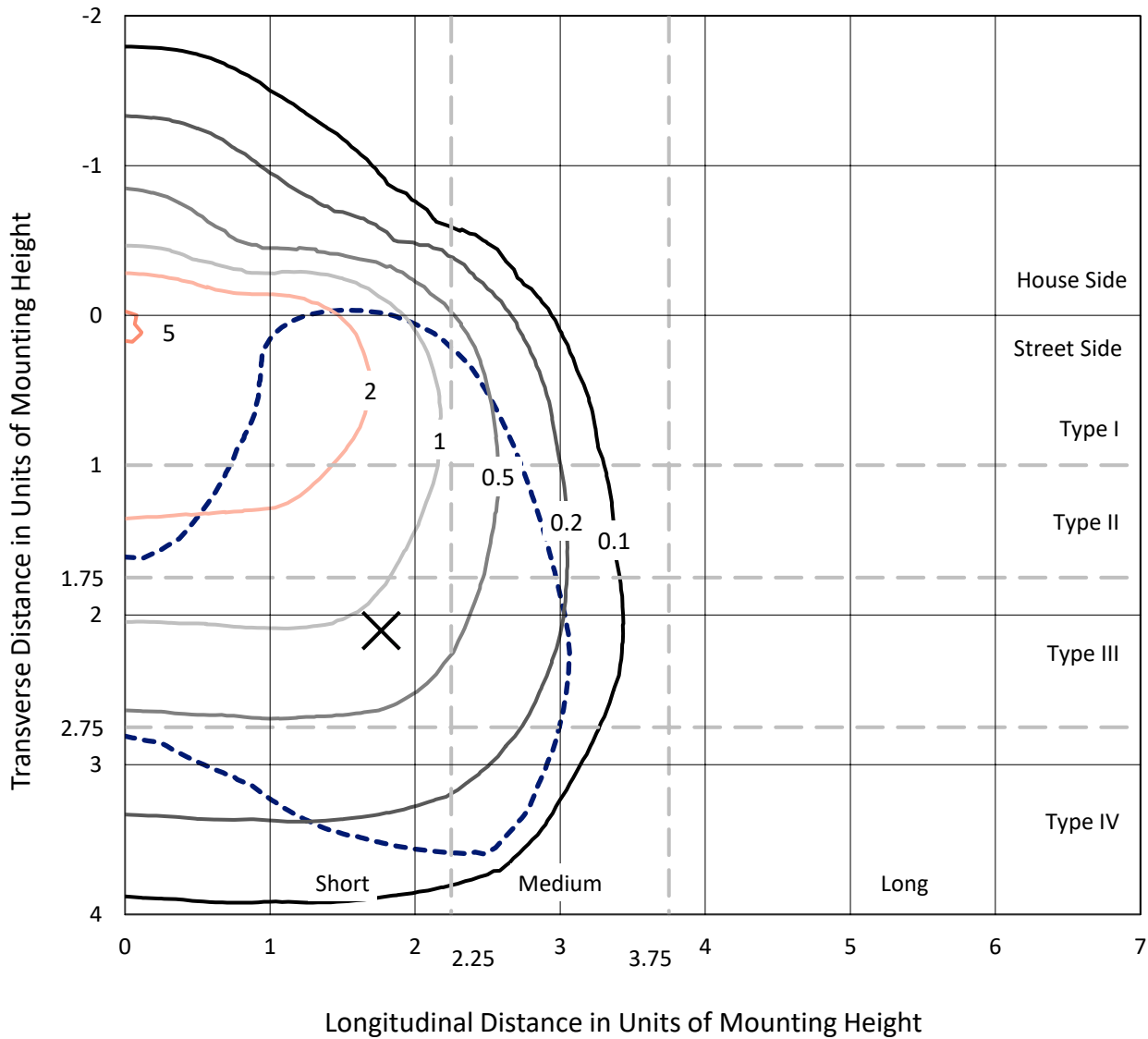
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P634023
 CATALOG NUMBER: GWS-SA2F-830-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination

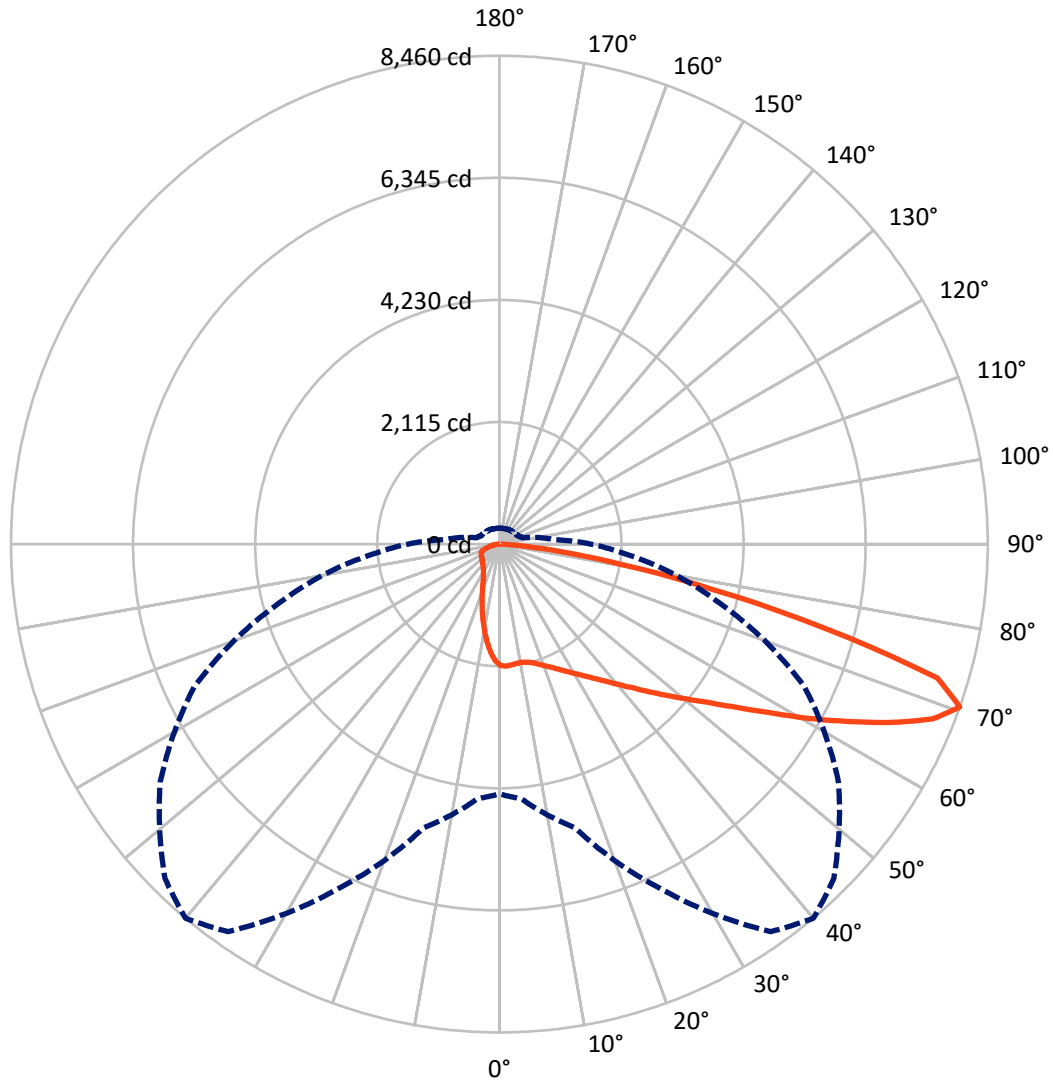
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P634023
CATALOG NUMBER: GWS-SA2F-830-U-SL4-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P634023

CATALOG NUMBER: GWS-SA2F-830-U-SL4-W

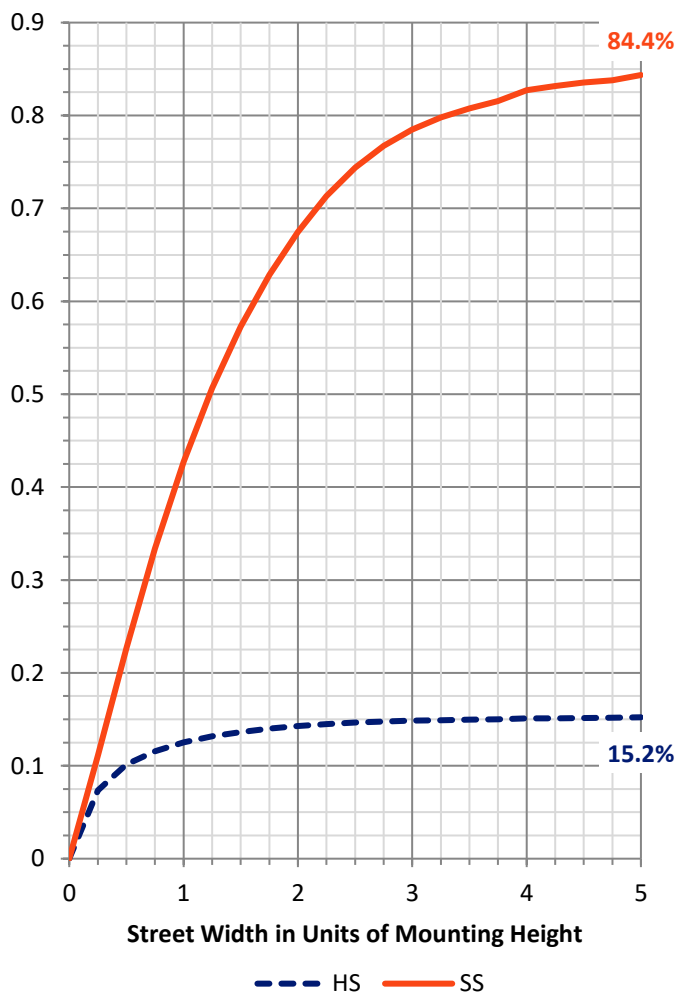
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1906.3	0.0	1906.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	10470.3	0.0	10470.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	12376.6	0.0	12376.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	1.5
10°-20°	484.0	3.9
20°-30°	759.9	6.1
30°-40°	1142.5	9.2
40°-50°	1763.5	14.2
50°-60°	2619.0	21.2
60°-70°	3301.2	26.7
70°-80°	1909.0	15.4
80°-90°	211.9	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°	12376.6	100.0
0°-180°	12376.6	100.0

Coefficient of Utilization



REPORT NUMBER: P634023

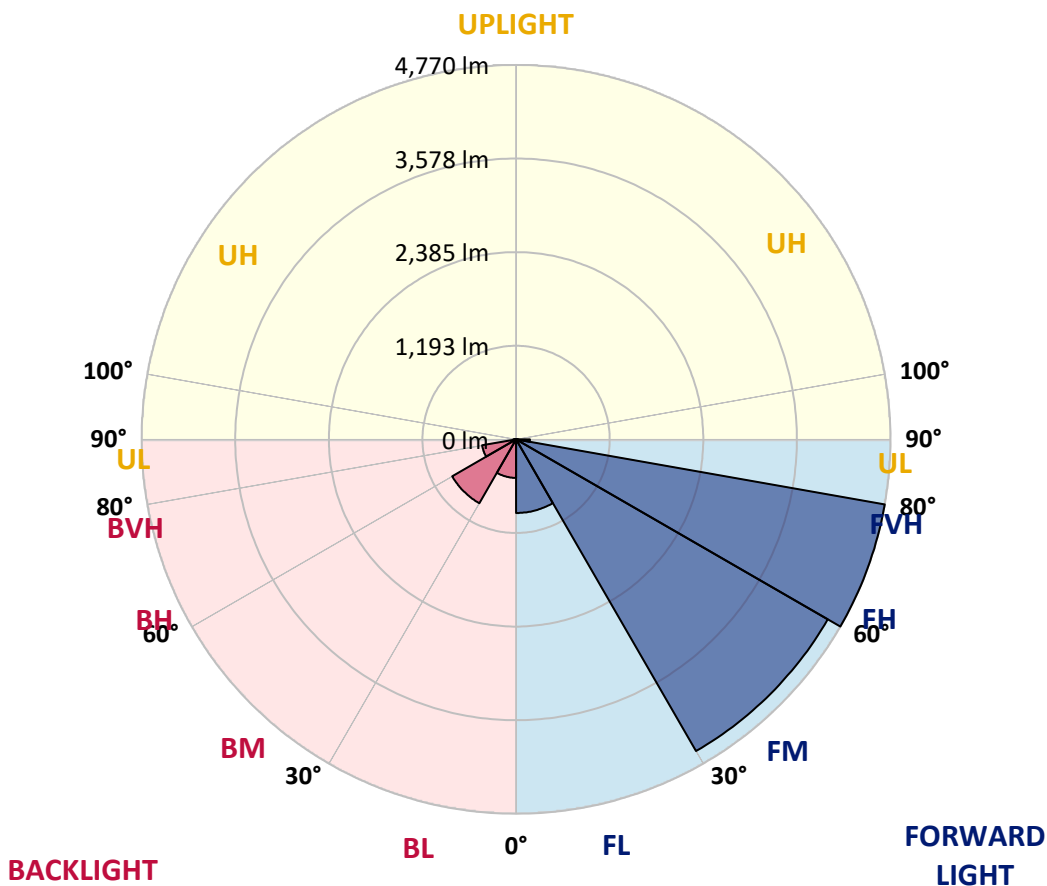
CATALOG NUMBER: GWS-SA2F-830-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	938.2	7.6			
FM (30°-60°)	4585.4	37.0			
FH (60°-80°)	4770.2	38.5			G2/5000
FVH (80°-90°)	176.5	1.4			G2/225
BL (0°-30°)	491.3	4.0	B1/500		
BM (30°-60°)	939.6	7.6	B1/1000		
BH (60°-80°)	440.0	3.6	B1/500		G1/500
BVH (80°-90°)	35.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P634023
 CATALOG NUMBER: GWS-SA2F-830-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7
2.5°	2114.6	2118.3	2121.1	2124.8	2122.9	2117.4	2122.0	2122.0	2111.9	2100.8	2090.6
5°	2117.4	2122.0	2121.1	2120.2	2112.8	2103.5	2103.5	2098.0	2080.4	2062.9	2046.3
7.5°	2111.9	2110.9	2110.0	2107.2	2098.9	2088.8	2086.9	2075.8	2052.7	2028.7	2004.7
10°	2086.9	2086.0	2088.8	2095.2	2093.4	2084.1	2084.1	2074.0	2047.2	2017.6	1986.2
12.5°	2066.6	2066.6	2077.7	2095.2	2101.7	2098.0	2098.9	2091.5	2061.0	2025.9	1989.0
15°	2069.4	2070.3	2094.3	2122.9	2134.9	2132.2	2133.1	2124.8	2090.6	2055.5	2005.6
17.5°	2087.8	2092.5	2134.0	2173.7	2189.5	2185.8	2179.3	2165.4	2126.6	2086.9	2025.9
20°	2126.6	2134.0	2187.6	2237.5	2256.0	2247.7	2236.6	2208.9	2166.4	2122.9	2048.1
22.5°	2203.3	2207.9	2267.1	2316.0	2330.8	2320.6	2298.5	2258.7	2209.8	2164.5	2074.9
25°	2311.4	2316.9	2373.3	2418.6	2414.9	2402.9	2372.4	2323.4	2265.2	2217.2	2113.7
27.5°	2439.8	2449.0	2504.5	2540.5	2516.5	2498.9	2464.7	2405.6	2340.0	2296.6	2172.8
30°	2580.2	2583.9	2631.0	2667.1	2630.1	2606.1	2564.5	2500.8	2441.7	2409.3	2261.5
32.5°	2716.0	2719.7	2760.4	2780.7	2741.9	2724.3	2688.3	2620.9	2579.3	2561.8	2393.6
35°	2859.2	2858.3	2891.6	2909.1	2869.4	2862.0	2825.0	2773.3	2765.9	2789.0	2586.7
37.5°	3002.4	2994.1	3011.7	3034.7	3012.6	3020.0	2995.9	2978.4	3007.0	3067.1	2843.5
40°	3117.0	3117.0	3135.4	3164.1	3171.5	3203.8	3189.9	3213.0	3305.4	3448.6	3161.3
42.5°	3218.6	3219.5	3258.3	3302.7	3356.2	3406.1	3417.2	3477.3	3668.5	3893.0	3560.4
45°	3324.8	3325.7	3378.4	3443.1	3556.7	3651.9	3674.0	3808.9	4082.4	4355.8	3993.7
47.5°	3447.7	3437.5	3510.5	3618.6	3780.3	3917.0	3974.3	4165.5	4511.0	4847.3	4402.0
50°	3586.3	3565.0	3646.3	3832.9	4032.5	4220.0	4316.1	4535.0	4971.1	5300.9	4786.3
52.5°	3742.4	3730.4	3815.4	4042.6	4347.5	4563.7	4693.9	4981.2	5418.2	5752.6	5091.2
55°	3936.4	3907.8	4030.6	4319.8	4717.0	4992.3	5146.6	5422.8	5906.9	6162.8	5324.0
57.5°	4148.9	4117.5	4281.9	4666.2	5197.4	5499.5	5692.6	5919.8	6367.0	6476.9	5460.7
60°	4378.0	4367.8	4562.7	5072.7	5770.2	6121.2	6260.7	6466.7	6767.0	6658.9	5426.5
62.5°	4587.7	4584.0	4867.6	5513.4	6377.1	6763.3	6874.1	6928.6	7055.2	6646.9	5154.9
65°	4808.5	4839.9	5223.3	6024.2	7072.8	7451.5	7497.7	7359.1	7152.2	6331.9	4598.8
67.5°	4836.2	4897.2	5446.8	6502.8	7732.4	8089.9	8052.9	7522.7	6865.8	5455.2	3604.7
70°	4325.3	4431.6	5090.2	6575.7	8197.0	8460.3	8193.4	7170.7	5826.5	3952.1	2267.1
72.5°	3614.0	3705.4	4287.4	5607.6	7597.5	7932.8	7571.6	6069.5	4117.5	2267.1	1154.8
75°	2813.0	2919.3	3456.0	4457.4	5688.0	5821.9	5640.8	4232.9	2263.4	934.9	524.7
77.5°	1716.5	1793.1	2210.7	3020.0	3979.8	3779.3	3202.9	2373.3	993.1	448.1	324.3
80°	759.4	806.5	1089.2	1622.2	2299.4	2173.7	1713.7	1013.4	543.2	284.5	226.3
82.5°	407.4	437.9	536.7	642.1	1009.7	1055.9	856.4	583.9	291.9	162.6	129.3
85°	179.2	196.8	243.9	232.8	331.7	326.1	328.9	400.9	139.5	74.8	84.1
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	10.2	53.6	13.9	22.2	19.4
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: P634023
 CATALOG NUMBER: GWS-SA2F-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7	2101.7
2.5°	2079.5	2062.9	2058.3	2052.7	2042.6	2025.0	2012.1	1997.3	1990.8	1983.4	1984.4
5°	2027.8	2007.5	1988.1	1963.1	1931.7	1896.6	1872.6	1844.9	1830.1	1816.2	1819.9
7.5°	1983.4	1952.0	1912.3	1859.6	1803.3	1740.5	1689.7	1649.9	1623.2	1604.7	1613.9
10°	1955.7	1918.8	1849.5	1763.6	1668.4	1572.3	1499.4	1431.0	1388.5	1355.2	1353.4
12.5°	1950.2	1902.1	1801.4	1676.7	1539.1	1410.7	1303.5	1211.1	1154.8	1113.2	1128.9
15°	1955.7	1894.8	1759.9	1596.4	1422.7	1249.0	1116.0	1009.7	942.3	904.4	901.6
17.5°	1962.2	1887.4	1712.8	1509.5	1300.7	1102.1	947.8	835.1	765.8	728.0	728.9
20°	1967.7	1876.3	1657.3	1414.4	1176.9	965.4	805.6	698.4	636.5	608.8	613.4
22.5°	1977.0	1865.2	1598.2	1312.7	1050.4	833.3	692.9	606.0	569.1	550.6	551.5
25°	1994.5	1858.7	1537.2	1201.9	925.7	728.0	615.3	557.1	534.0	522.9	522.0
27.5°	2030.6	1864.3	1473.5	1094.7	813.0	647.6	565.4	527.5	511.8	504.4	503.5
30°	2090.6	1886.4	1418.1	985.7	716.0	584.8	531.2	508.1	498.9	492.4	491.5
32.5°	2182.1	1928.0	1358.0	884.1	637.4	538.6	504.4	492.4	485.9	482.2	482.2
35°	2320.6	2003.8	1298.9	795.4	576.5	502.6	483.2	478.5	473.0	471.1	473.0
37.5°	2520.2	2124.8	1245.3	717.8	533.0	474.8	460.1	461.9	457.3	460.1	462.8
40°	2773.3	2286.5	1200.0	654.1	500.7	454.5	439.7	446.2	443.4	446.2	450.8
42.5°	3093.9	2486.9	1165.9	604.2	477.6	437.9	424.0	430.5	428.7	432.3	437.0
45°	3451.4	2751.1	1150.2	569.1	461.0	425.9	411.1	415.7	413.9	416.6	421.3
47.5°	3794.1	2991.3	1164.0	548.7	447.1	415.7	400.0	401.9	400.9	400.0	402.8
50°	4089.7	3182.6	1203.7	542.3	437.9	405.6	390.8	391.7	388.9	383.4	385.2
52.5°	4330.9	3335.9	1227.8	542.3	433.3	394.5	380.6	381.5	376.0	368.6	369.5
55°	4489.8	3397.8	1208.4	541.4	431.4	385.2	370.5	371.4	365.8	356.6	357.5
57.5°	4535.0	3337.8	1127.1	531.2	429.6	377.8	360.3	362.1	358.4	348.3	348.3
60°	4408.5	3117.9	978.3	508.1	425.0	373.2	352.9	355.7	353.8	343.7	343.7
62.5°	4076.8	2727.1	801.0	473.0	412.0	367.7	346.4	352.0	356.6	351.1	350.1
65°	3456.0	2184.8	651.3	434.2	395.4	358.4	337.2	351.1	361.2	368.6	368.6
67.5°	2593.2	1564.0	531.2	393.5	370.5	340.0	325.2	338.1	345.5	350.1	352.9
70°	1580.7	920.1	418.5	346.4	334.4	312.3	301.2	288.2	278.1	276.2	277.1
72.5°	773.2	526.6	340.0	294.7	285.5	265.1	240.2	234.7	230.0	227.3	226.3
75°	425.9	366.8	280.8	244.8	228.2	203.2	197.7	188.5	186.6	182.9	183.8
77.5°	301.2	289.2	231.9	198.6	173.7	160.7	163.5	157.0	157.0	154.3	153.4
80°	226.3	227.3	178.3	145.0	128.4	123.8	126.6	126.6	124.7	123.8	122.9
82.5°	143.2	161.7	120.1	93.3	91.5	92.4	91.5	90.5	92.4	89.6	88.7
85°	98.8	116.4	73.0	55.4	55.4	54.5	56.4	55.4	57.3	54.5	54.5
87.5°	22.2	51.7	26.8	16.6	17.6	16.6	17.6	18.5	20.3	21.2	21.2
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)