

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: P631533

Luminaire Tested: GWS-SA1F-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-830-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6071.6 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

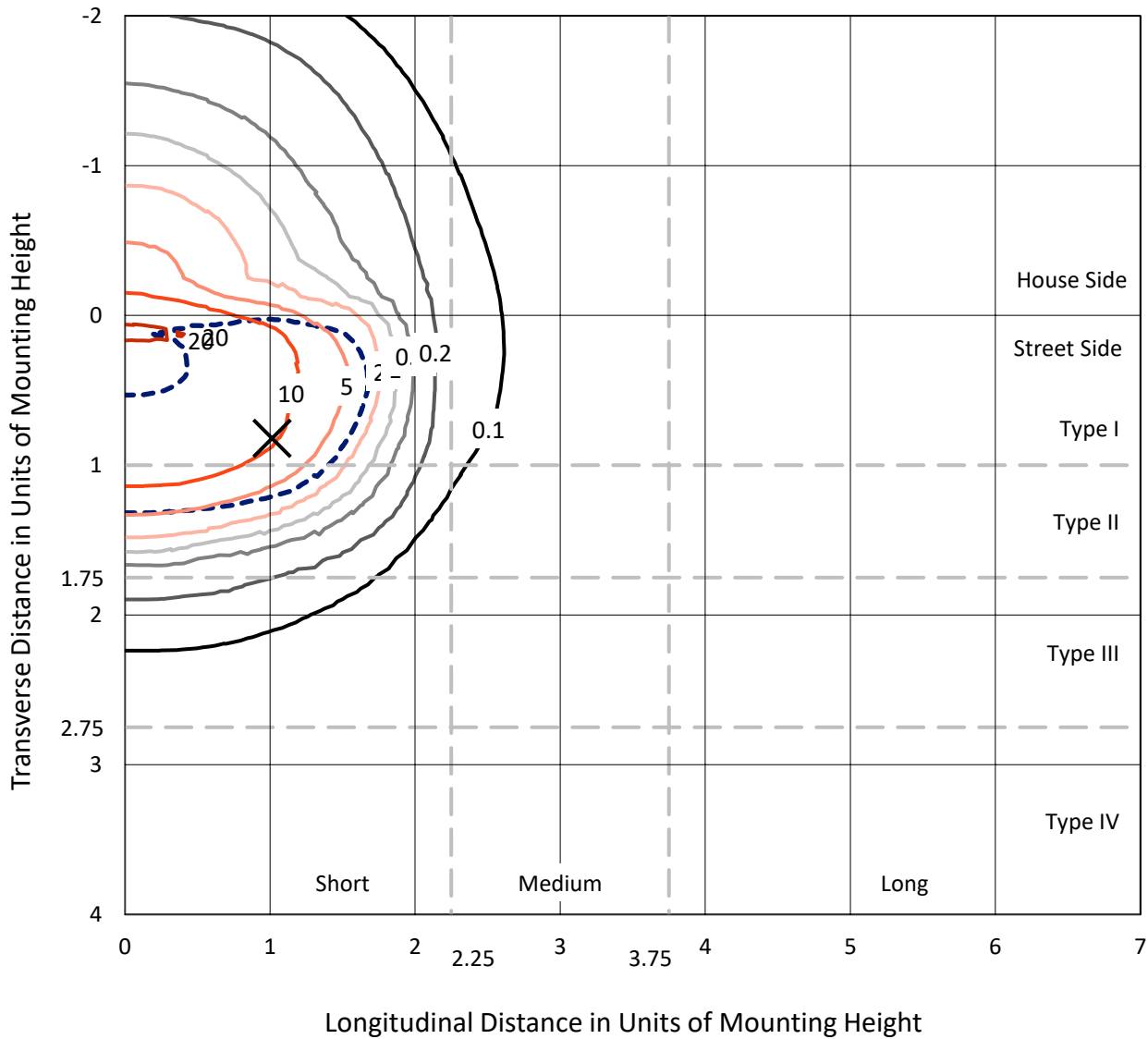
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631533
 CATALOG NUMBER: GWS-SA1F-830-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

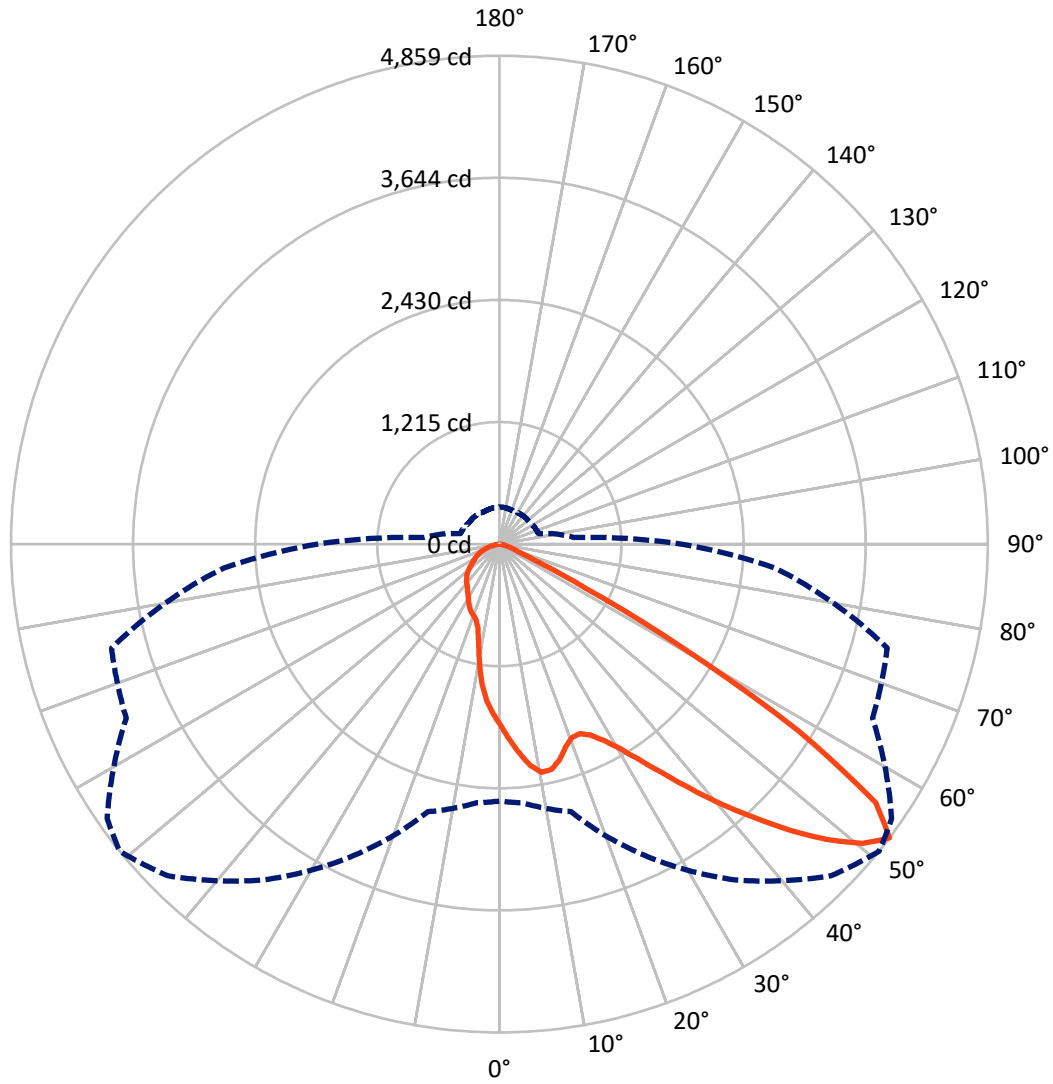
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.1 fc
 Type II - Short - N/A

REPORT NUMBER: P631533
CATALOG NUMBER: GWS-SA1F-830-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P631533

CATALOG NUMBER: GWS-SA1F-830-U-AFL-W-GRSWH

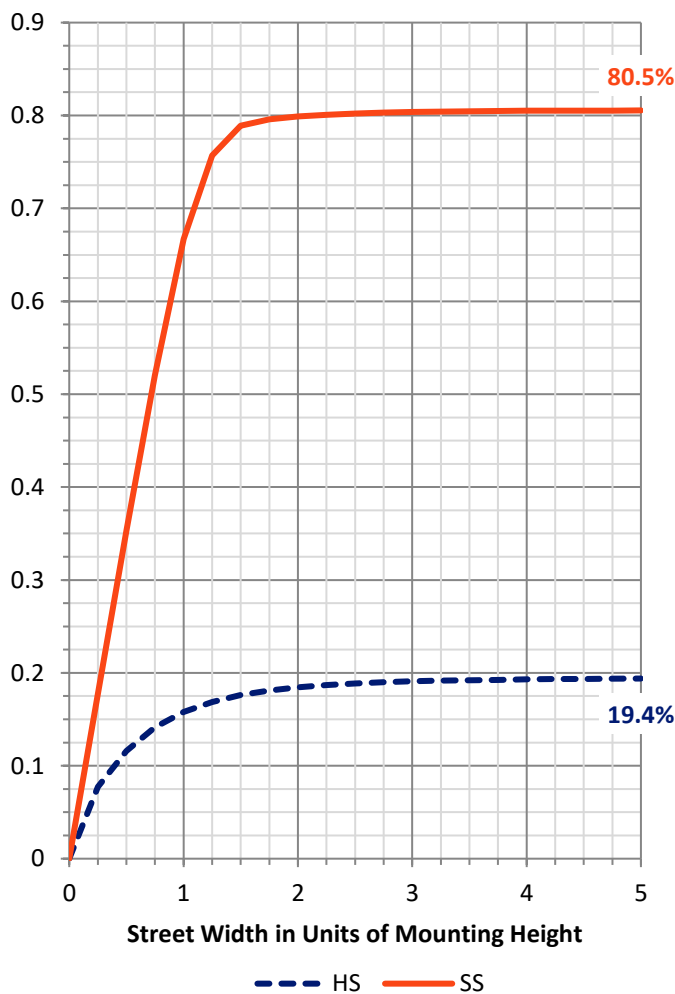
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1183.0	0.0	1183.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4888.6	0.0	4888.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	6071.6	0.0	6071.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	2.8
10°-20°	438.3	7.2
20°-30°	712.7	11.7
30°-40°	1129.5	18.6
40°-50°	1703.5	28.1
50°-60°	1473.6	24.3
60°-70°	334.1	5.5
70°-80°	98.5	1.6
80°-90°	12.7	0.2
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°	6071.6	100.0
0°-180°	6071.6	100.0

Coefficient of Utilization



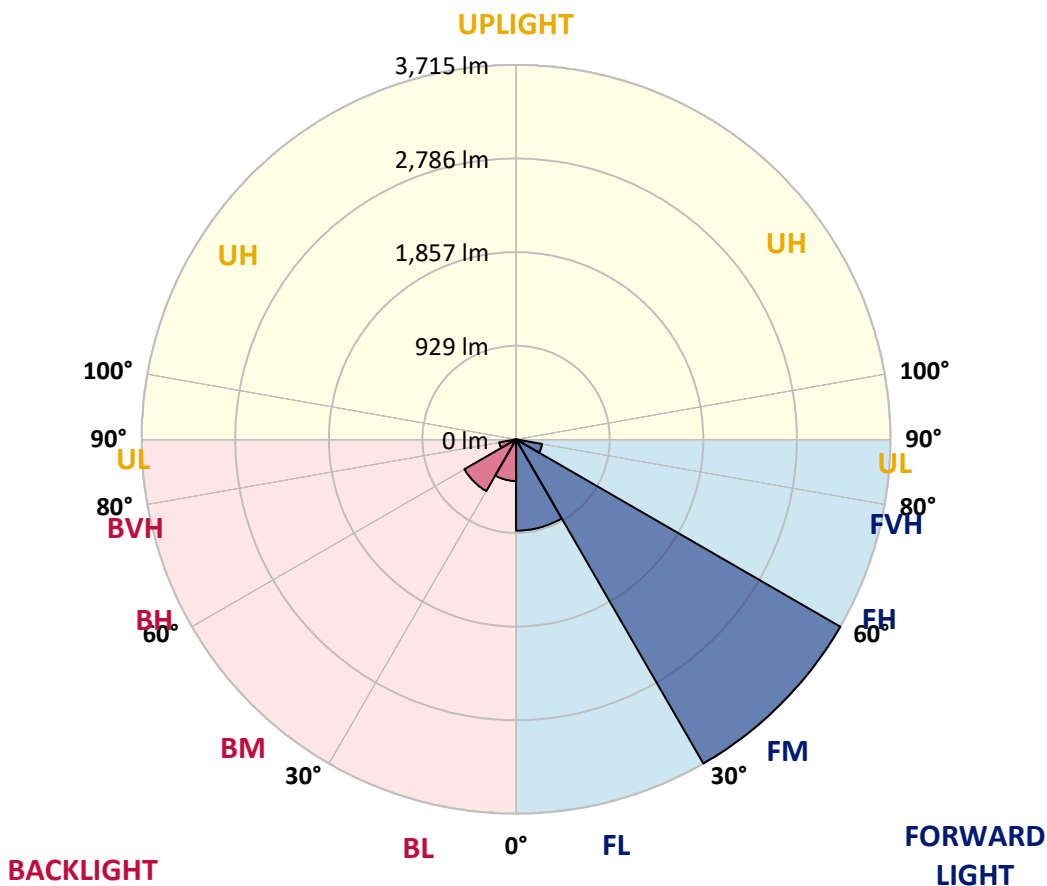
REPORT NUMBER: P631533

CATALOG NUMBER: GWS-SA1F-830-U-AFL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	906.2	14.9			
FM (30°-60°)	3714.7	61.2			
FH (60°-80°)	262.9	4.3			G0/660
FVH (80°-90°)	4.8	0.1			G0/10
BL (0°-30°)	413.5	6.8	B1/500		
BM (30°-60°)	591.9	9.7	B1/1000		
BH (60°-80°)	169.7	2.8	B1/500		G1/500
BVH (80°-90°)	7.9	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-G1
 Type II Short





REPORT NUMBER: P631533

CATALOG NUMBER: GWS-SA1F-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1807.8	1807.8	1807.8	1807.8	1807.8	1807.8	1807.8	1807.8	1807.8	1807.8	1807.8
2.5°	2014.6	2026.1	2008.4	2001.7	1990.6	1971.4	1949.4	1943.1	1895.6	1864.4	1829.4
5°	2217.1	2223.3	2208.9	2194.5	2167.2	2133.1	2090.4	2081.3	1994.9	1923.4	1849.1
7.5°	2262.2	2259.8	2272.2	2280.4	2277.0	2263.6	2225.7	2208.0	2104.8	1991.6	1881.7
10°	2083.7	2070.3	2116.3	2171.0	2236.7	2312.5	2308.2	2306.8	2217.1	2083.2	1923.4
12.5°	1847.2	1840.4	1877.9	1946.5	2070.7	2238.7	2301.5	2350.5	2318.3	2170.5	1970.0
15°	1711.9	1709.5	1734.9	1784.3	1883.1	2095.2	2229.5	2326.5	2405.1	2264.1	2019.4
17.5°	1687.4	1688.8	1697.5	1725.8	1796.8	1971.4	2126.9	2262.2	2472.8	2366.8	2081.3
20°	1758.9	1768.5	1753.6	1757.9	1796.3	1926.8	2056.8	2197.4	2516.0	2469.9	2148.0
22.5°	1917.7	1914.3	1881.7	1862.5	1863.0	1954.2	2049.1	2167.2	2544.3	2570.2	2208.4
25°	2097.6	2093.8	2054.9	2012.2	1985.3	2028.5	2104.3	2199.3	2569.7	2661.8	2256.9
27.5°	2310.1	2298.2	2255.0	2200.3	2140.8	2159.5	2210.8	2286.2	2609.1	2752.0	2289.0
30°	2516.0	2529.9	2468.0	2403.2	2340.4	2328.9	2358.6	2426.7	2689.2	2857.6	2327.4
32.5°	2789.0	2784.2	2715.6	2631.1	2541.4	2532.8	2556.3	2618.6	2833.1	3003.4	2386.0
35°	3119.5	3120.5	3023.1	2908.9	2781.3	2758.3	2797.6	2858.1	3047.6	3201.1	2478.6
37.5°	3463.1	3461.6	3376.7	3247.2	3073.0	3040.4	3085.5	3130.6	3315.8	3470.3	2622.5
40°	3703.9	3713.5	3673.7	3605.6	3440.5	3360.9	3400.7	3431.9	3607.5	3786.9	2812.0
42.5°	3840.7	3855.0	3863.7	3904.5	3817.6	3732.7	3718.3	3734.6	3868.0	4081.0	2990.0
45°	3869.9	3889.1	3952.0	4103.1	4136.7	4112.7	4065.7	4026.3	4062.3	4289.7	3106.6
47.5°	3740.9	3774.4	3908.8	4173.1	4369.4	4444.7	4392.4	4332.4	4174.6	4343.5	3094.6
50°	3229.4	3268.8	3571.5	4030.2	4402.5	4676.9	4681.7	4593.0	4161.1	4188.5	2943.9
52.5°	2556.8	2583.6	2756.8	3416.5	4077.7	4667.3	4859.2	4764.2	4096.4	3994.7	2755.4
55°	1528.1	1571.3	1733.0	2254.0	3176.6	4136.7	4545.5	4591.5	4064.7	3832.0	2626.8
57.5°	515.8	536.9	691.4	995.5	1872.1	3028.9	3512.0	3699.1	3690.0	3583.5	2375.9
60°	245.6	250.4	281.6	377.6	749.4	1582.8	2078.9	2294.8	2491.5	2511.2	1478.2
62.5°	187.1	190.0	205.8	226.5	301.3	666.9	952.8	1117.9	1194.2	1024.8	538.3
65°	156.4	158.8	170.8	183.8	204.9	288.8	365.6	421.7	380.0	296.0	256.7
67.5°	130.5	132.4	141.5	155.4	169.8	193.4	202.9	208.7	218.8	245.6	236.1
70°	102.2	104.1	113.7	125.7	139.6	145.4	154.5	160.2	180.4	214.9	214.0
72.5°	78.7	81.1	86.4	94.0	105.6	111.3	121.4	128.1	139.6	167.4	179.0
75°	57.6	59.0	63.8	66.2	67.6	66.2	76.3	84.0	99.3	109.9	112.7
77.5°	23.5	26.4	25.4	25.4	30.2	36.5	41.7	46.5	57.1	63.3	63.8
80°	9.6	10.6	12.5	13.9	16.8	21.6	24.9	26.9	31.7	35.5	38.4
82.5°	5.8	6.2	7.2	7.7	9.6	12.5	14.4	15.8	19.7	23.5	24.9
85°	2.9	2.9	3.4	3.8	4.8	5.8	6.7	7.7	10.1	12.5	13.9
87.5°	0.5	0.5	0.5	1.0	1.4	1.9	2.4	2.9	3.4	3.8	4.8
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: P631533
 CATALOG NUMBER: GWS-SA1F-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1807.8	1807.8	1807.8	1807.8	1807.8	1807.8	1807.8	1807.8	1807.8	1807.8	1807.8
2.5°	1808.8	1782.9	1752.6	1728.7	1700.8	1680.2	1650.9	1632.7	1615.4	1601.0	1590.5
5°	1810.7	1767.0	1704.2	1648.5	1591.0	1536.3	1480.1	1434.5	1393.8	1359.7	1356.8
7.5°	1821.7	1758.9	1660.5	1563.1	1450.9	1342.4	1234.0	1145.7	1078.5	1043.5	1036.3
10°	1840.4	1757.9	1615.9	1460.5	1269.0	1094.4	965.8	898.6	859.8	845.9	841.1
12.5°	1860.1	1755.5	1558.8	1315.6	1049.8	896.7	826.2	818.0	825.2	826.2	825.7
15°	1884.1	1754.1	1486.8	1145.7	889.5	805.1	809.9	827.1	843.9	847.8	847.8
17.5°	1913.4	1750.7	1389.0	979.7	789.2	787.3	812.8	835.8	851.6	854.5	854.5
20°	1944.1	1742.1	1268.5	844.4	748.5	776.3	803.6	821.4	832.4	836.3	836.7
22.5°	1965.2	1719.1	1129.9	744.1	723.0	755.2	774.8	793.1	793.1	783.5	780.6
25°	1969.5	1669.6	979.7	675.5	692.8	722.6	742.7	732.1	712.5	704.8	704.3
27.5°	1953.7	1597.7	831.5	626.6	656.3	686.1	682.7	667.4	658.7	651.1	653.9
30°	1934.5	1511.3	702.9	586.3	614.1	643.4	631.9	626.6	620.4	611.7	613.6
32.5°	1921.5	1414.9	604.0	555.1	585.8	590.6	598.8	598.3	592.5	576.2	575.3
35°	1925.4	1317.5	537.8	529.7	562.3	560.4	575.7	572.9	533.0	510.5	509.0
37.5°	1956.1	1223.9	499.0	509.5	524.9	536.9	550.3	515.8	501.9	487.5	488.4
40°	2014.6	1137.1	477.9	498.5	502.3	520.1	488.9	488.4	482.2	469.2	468.7
42.5°	2080.8	1063.7	463.5	493.2	487.9	491.3	458.2	462.0	461.6	453.4	451.0
45°	2121.1	996.0	452.0	473.5	475.0	441.4	431.3	435.6	438.0	433.7	433.2
47.5°	2079.4	918.3	440.0	443.3	455.8	418.8	406.4	406.9	411.2	411.7	409.7
50°	1962.3	831.5	425.6	417.4	409.3	395.3	383.8	381.4	385.7	390.1	391.5
52.5°	1811.2	748.5	401.6	389.1	369.9	369.9	364.6	357.0	362.7	368.5	370.4
55°	1700.3	687.0	367.5	353.6	332.5	339.7	338.7	332.0	339.7	344.0	345.4
57.5°	1473.4	552.2	323.4	319.1	301.3	309.9	311.9	303.2	299.4	300.3	301.8
60°	874.6	356.5	291.7	291.2	275.4	285.5	291.2	282.6	271.1	272.5	274.4
62.5°	392.5	272.5	251.9	250.0	249.5	262.4	268.7	260.5	244.2	245.6	247.6
65°	247.1	235.6	218.8	218.8	226.5	237.5	242.3	235.6	216.9	214.5	216.4
67.5°	229.3	219.3	202.0	198.6	202.5	211.6	212.1	199.1	188.1	186.2	186.2
70°	205.8	198.1	181.4	174.6	173.2	172.7	171.3	167.9	160.7	158.8	159.8
72.5°	170.3	165.0	154.5	147.3	143.5	143.0	137.2	134.3	128.1	127.1	126.7
75°	112.7	114.2	114.2	113.2	109.9	108.4	102.2	99.3	92.1	89.2	88.8
77.5°	66.7	68.1	70.0	70.5	70.0	70.0	64.3	60.9	53.7	49.9	48.9
80°	40.8	41.7	42.7	44.1	42.2	40.8	35.5	32.1	28.8	26.4	25.9
82.5°	26.4	27.3	27.8	28.8	27.8	25.9	21.6	19.7	17.3	15.4	14.9
85°	14.9	15.4	16.3	16.3	14.9	13.4	11.0	9.6	8.2	7.2	7.2
87.5°	5.3	5.3	5.3	5.8	4.8	4.3	2.9	1.9	1.4	1.4	1.4
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)