

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: P633547

Luminaire Tested: GWS-SA2E-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-830-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9893 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

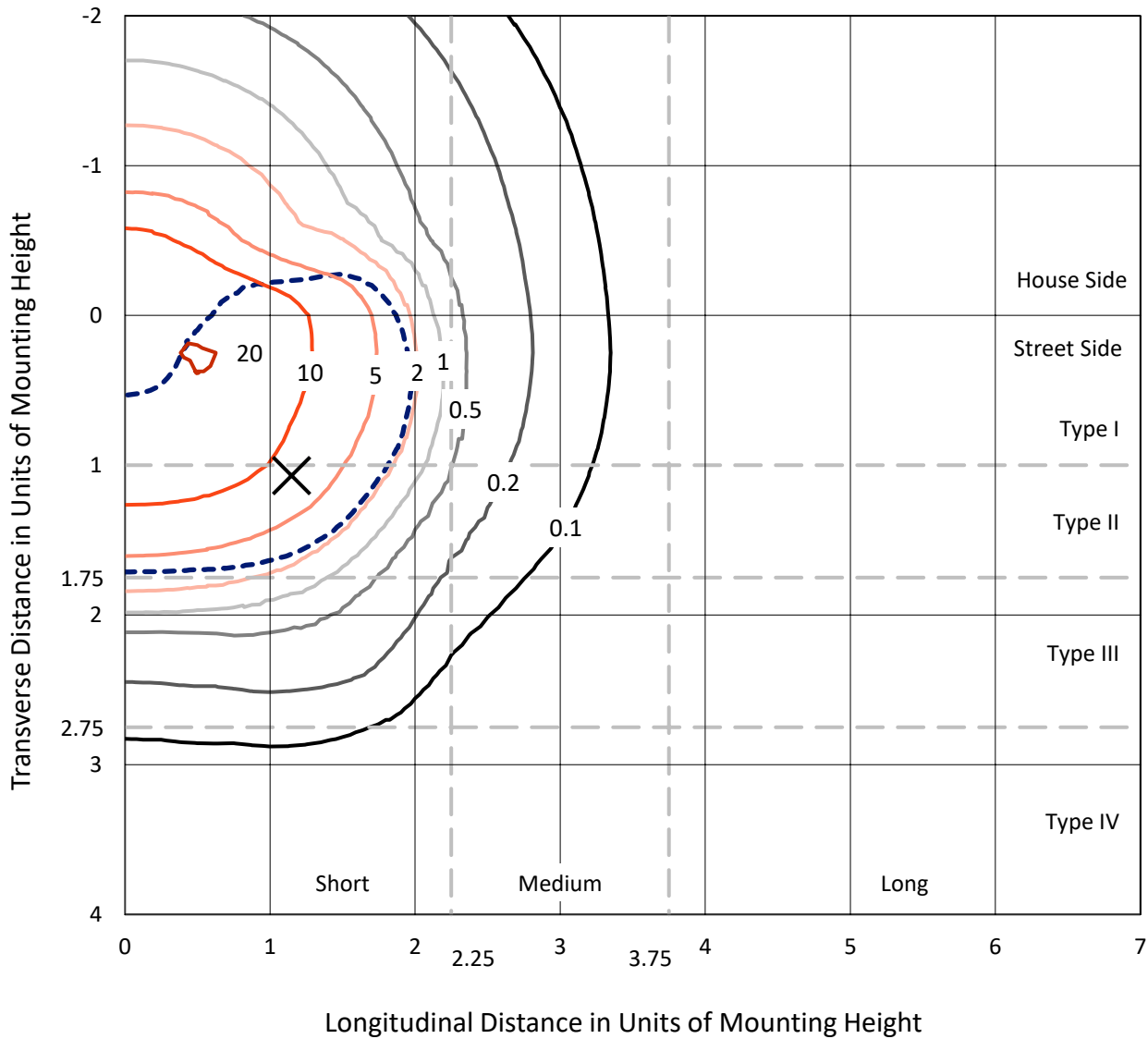
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

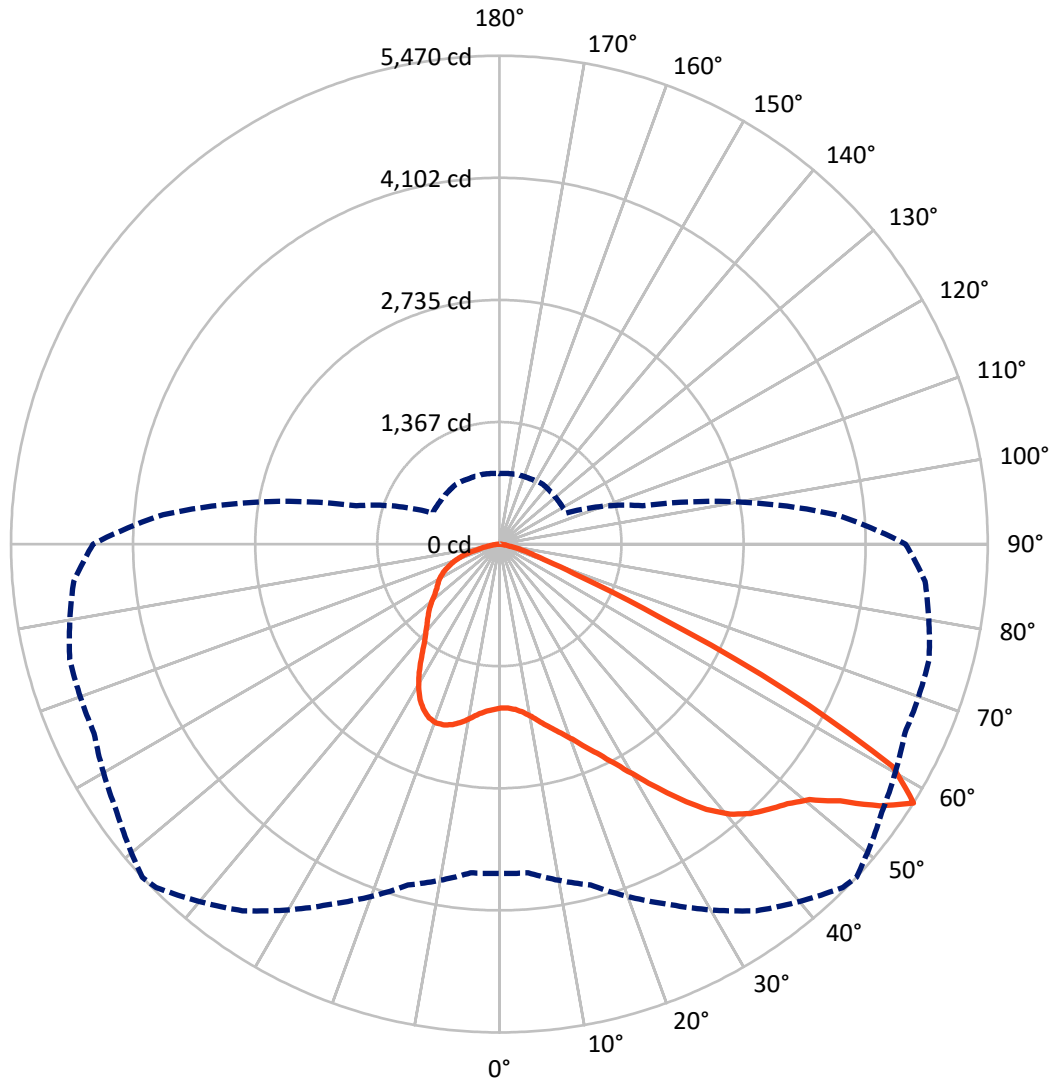
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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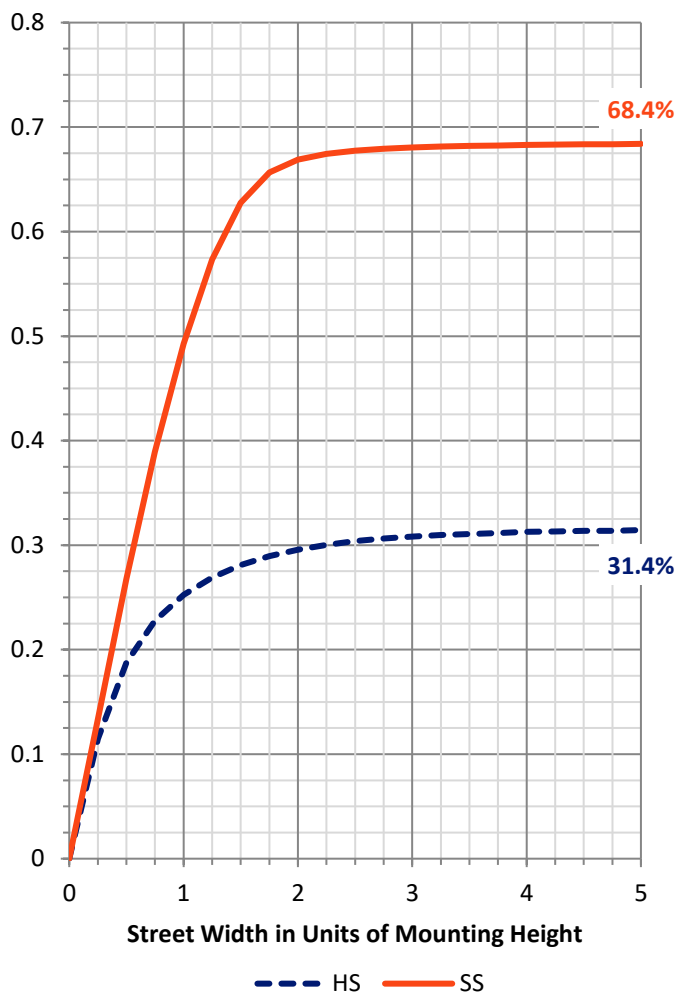
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3131.1	0.0	3131.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6761.9	0.0	6761.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	9893.0	0.0	9893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	1.8
10°-20°	595.2	6.0
20°-30°	1071.7	10.8
30°-40°	1618.7	16.4
40°-50°	2179.7	22.0
50°-60°	2619.2	26.5
60°-70°	1275.6	12.9
70°-80°	314.3	3.2
80°-90°	37.8	0.4
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°	9893.0	100.0
0°-180°	9893.0	100.0

Coefficient of Utilization



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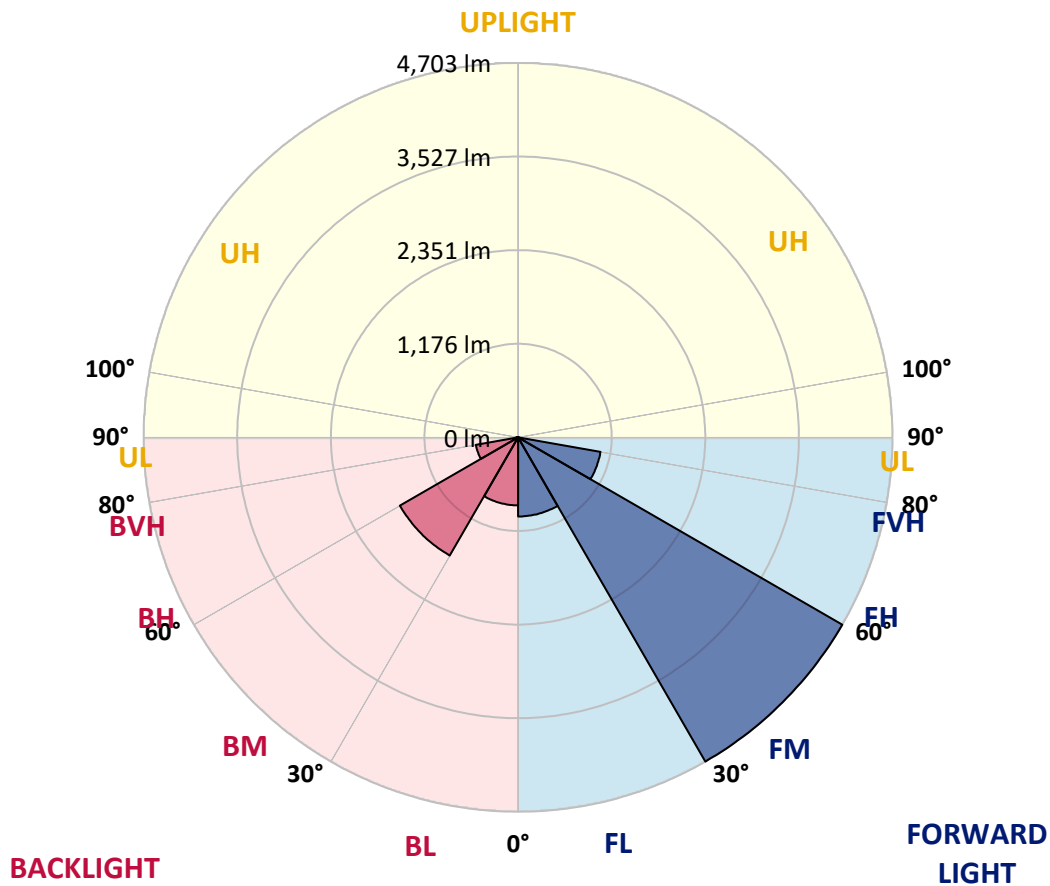
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.7	10.0			
FM (30°-60°)	4702.7	47.5			
FH (60°-80°)	1051.3	10.6			G1/1800
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	854.1	8.6	B2/1000		
BM (30°-60°)	1714.9	17.3	B2/2500		
BH (60°-80°)	538.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	23.6	0.2			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7
2.5°	1831.3	1830.5	1830.5	1835.5	1835.5	1837.2	1839.7	1842.1	1843.0	1838.8	1829.7
5°	1851.3	1851.3	1851.3	1855.4	1855.4	1857.1	1860.4	1861.3	1860.4	1853.8	1844.6
7.5°	1882.9	1882.9	1883.7	1888.7	1892.8	1895.3	1901.1	1900.3	1897.8	1887.0	1875.4
10°	1934.4	1936.9	1939.4	1945.2	1953.5	1959.3	1963.5	1963.5	1960.1	1943.5	1928.6
12.5°	2007.5	2010.8	2013.3	2018.3	2025.0	2034.9	2044.1	2044.1	2039.9	2019.1	1996.7
15°	2093.1	2096.4	2095.6	2097.2	2109.7	2123.8	2131.3	2136.3	2138.0	2108.9	2074.0
17.5°	2191.1	2194.5	2191.1	2186.2	2187.8	2210.2	2223.5	2241.8	2252.6	2213.6	2157.9
20°	2280.0	2276.7	2276.7	2280.0	2285.0	2312.5	2332.4	2362.3	2375.6	2328.2	2241.8
22.5°	2373.9	2381.4	2378.1	2378.1	2398.0	2443.7	2467.8	2506.9	2521.0	2459.5	2343.2
25°	2495.3	2501.9	2500.2	2501.9	2525.2	2590.0	2614.1	2686.4	2700.5	2612.4	2455.4
27.5°	2628.2	2639.0	2644.0	2642.3	2679.7	2764.5	2794.4	2894.9	2920.7	2783.6	2575.0
30°	2801.0	2812.7	2816.8	2815.2	2859.2	2974.7	3008.8	3123.4	3160.0	2986.3	2727.1
32.5°	3001.3	3012.9	3025.4	3030.4	3086.9	3204.9	3253.9	3372.7	3425.1	3220.6	2910.7
35°	3199.9	3209.8	3233.9	3273.0	3350.3	3470.8	3514.0	3631.1	3681.8	3464.1	3132.6
37.5°	3419.2	3425.9	3446.7	3500.7	3612.0	3726.7	3769.9	3882.1	3887.9	3699.3	3383.5
40°	3659.4	3659.4	3655.2	3708.4	3824.7	3940.2	3977.6	4042.4	4008.4	3880.4	3627.8
42.5°	3862.9	3859.6	3862.9	3912.8	3999.2	4093.1	4125.5	4113.1	4069.8	4019.2	3848.8
45°	4046.6	4049.1	4079.0	4117.2	4162.1	4217.7	4236.9	4166.2	4127.2	4130.5	4025.8
47.5°	4171.2	4173.7	4243.5	4307.5	4334.9	4352.4	4344.0	4246.0	4226.1	4263.4	4162.1
50°	4187.8	4201.1	4321.6	4452.9	4521.0	4523.5	4500.3	4380.6	4374.8	4417.2	4235.2
52.5°	4191.2	4204.5	4354.9	4591.7	4768.6	4806.0	4779.5	4654.8	4594.2	4551.8	4324.9
55°	4178.7	4193.7	4359.8	4684.7	5023.7	5173.3	5175.8	4999.6	4806.0	4777.8	4580.9
57.5°	3689.3	3695.1	3952.7	4447.9	5013.8	5437.5	5469.9	5230.6	5009.6	4983.0	4786.1
60°	2570.0	2593.3	2873.3	3527.3	4211.9	4958.9	5063.6	4993.8	4845.9	4652.3	4106.4
62.5°	1287.1	1307.0	1587.9	2206.1	2904.9	3494.8	3607.0	3681.0	3715.9	3508.1	2796.0
65°	554.2	569.2	743.7	1152.5	1644.4	1929.4	1968.4	2057.4	2275.1	2029.9	1506.5
67.5°	370.6	380.6	469.5	703.0	968.9	987.1	981.3	1000.4	1047.8	865.0	680.5
70°	284.2	292.5	352.3	515.2	696.3	595.8	564.2	511.8	555.9	566.7	551.7
72.5°	206.1	212.7	257.6	351.5	436.2	380.6	375.6	402.2	462.0	478.6	469.5
75°	132.9	136.3	163.7	192.8	225.2	244.3	254.3	302.5	363.1	375.6	364.8
77.5°	88.9	91.4	107.2	123.8	128.0	128.8	132.1	153.7	195.3	218.5	216.0
80°	46.5	46.5	52.3	52.3	59.8	71.5	74.8	88.9	108.0	119.7	120.5
82.5°	18.3	19.1	22.4	24.9	29.9	36.6	39.1	46.5	56.5	64.8	72.3
85°	7.5	8.3	9.1	10.8	13.3	16.6	17.4	19.9	26.6	33.2	37.4
87.5°	0.0	0.0	0.8	0.8	1.7	2.5	2.5	3.3	4.2	7.5	10.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7	1834.7
2.5°	1840.5	1829.7	1840.5	1843.8	1853.0	1856.3	1850.5	1849.6	1849.6	1841.3	1838.8
5°	1853.0	1843.0	1853.8	1858.8	1872.1	1880.4	1882.0	1888.7	1892.8	1889.5	1888.7
7.5°	1883.7	1871.2	1882.9	1890.3	1907.8	1921.1	1926.9	1941.9	1952.7	1951.0	1950.2
10°	1937.7	1921.1	1934.4	1946.8	1966.0	1981.7	1982.6	1990.9	2001.7	1998.4	1996.7
12.5°	2000.0	1984.2	1999.2	2011.7	2034.1	2040.7	2029.9	2026.6	2028.3	2024.1	2020.8
15°	2076.5	2054.0	2067.3	2081.5	2093.9	2086.4	2063.2	2054.0	2053.2	2047.4	2044.1
17.5°	2152.9	2124.7	2134.6	2142.1	2136.3	2113.0	2083.9	2068.2	2060.7	2049.0	2045.7
20°	2228.5	2192.8	2191.1	2185.3	2158.7	2116.4	2077.3	2045.7	2026.6	2010.8	2005.0
22.5°	2314.9	2265.1	2240.2	2213.6	2155.4	2086.4	2027.4	1982.6	1951.8	1931.9	1925.2
25°	2408.0	2337.4	2285.9	2232.7	2122.2	2022.5	1940.2	1878.7	1842.1	1820.5	1813.1
27.5°	2500.2	2403.0	2325.7	2235.2	2055.7	1930.2	1819.7	1736.6	1700.1	1682.6	1676.8
30°	2624.9	2490.3	2373.1	2202.8	1968.4	1802.3	1664.3	1580.4	1556.3	1543.8	1538.9
32.5°	2768.6	2600.8	2436.3	2134.6	1857.1	1652.7	1507.3	1449.1	1432.5	1408.4	1407.6
35°	2958.1	2758.7	2496.1	2034.1	1716.7	1492.3	1386.8	1345.3	1315.3	1277.1	1273.8
37.5°	3179.1	2955.6	2528.5	1906.1	1553.0	1360.2	1297.1	1250.5	1202.3	1151.7	1145.0
40°	3407.6	3185.7	2531.0	1754.9	1392.6	1273.0	1219.8	1159.1	1099.3	1042.8	1035.3
42.5°	3647.7	3400.1	2486.9	1580.4	1261.3	1197.4	1143.3	1066.9	999.6	961.4	957.2
45°	3862.1	3573.0	2387.2	1396.8	1164.1	1134.2	1065.2	983.0	947.2	919.8	914.0
47.5°	4030.8	3687.6	2252.6	1232.3	1085.2	1069.4	979.7	937.3	909.9	884.9	879.1
50°	4113.9	3713.4	2077.3	1098.5	1012.1	992.9	931.5	899.1	880.8	860.8	855.8
52.5°	4216.9	3742.5	1926.1	986.3	940.6	914.8	891.6	865.8	852.5	840.1	835.9
55°	4453.7	3852.1	1846.3	896.6	872.5	860.8	857.5	835.9	831.8	823.4	816.0
57.5°	4550.1	3781.5	1657.7	823.4	818.5	820.1	828.4	808.5	804.3	794.4	789.4
60°	3659.4	2858.4	1122.6	760.3	773.6	784.4	792.7	772.8	766.9	765.3	758.6
62.5°	2344.9	1758.2	783.6	701.3	721.2	734.5	739.5	720.4	716.3	729.5	730.4
65°	1220.6	958.1	635.7	638.1	654.8	674.7	684.7	678.0	676.4	690.5	691.3
67.5°	623.2	585.8	554.2	563.4	576.7	602.4	625.7	654.8	664.7	666.4	667.2
70°	531.0	514.3	498.6	504.4	518.5	532.6	555.1	569.2	552.6	548.4	546.7
72.5°	452.0	439.6	432.1	438.7	446.2	443.7	437.1	443.7	446.2	447.0	447.9
75°	351.5	342.3	336.5	337.4	337.4	328.2	315.7	308.3	300.0	293.3	293.3
77.5°	215.2	216.9	222.7	221.9	221.0	217.7	205.2	198.6	178.6	172.8	172.8
80°	123.0	125.5	131.3	132.9	132.9	128.8	116.3	108.9	99.7	95.6	94.7
82.5°	74.8	78.1	81.4	83.1	83.9	78.9	68.1	62.3	57.3	53.2	53.2
85°	39.1	40.7	44.0	44.9	42.4	37.4	31.6	29.1	24.1	23.3	23.3
87.5°	10.8	11.6	13.3	10.8	10.0	7.5	4.2	3.3	1.7	0.8	0.8
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)