

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: P633330

Luminaire Tested: GWS-SA2E-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-740-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9151.4 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

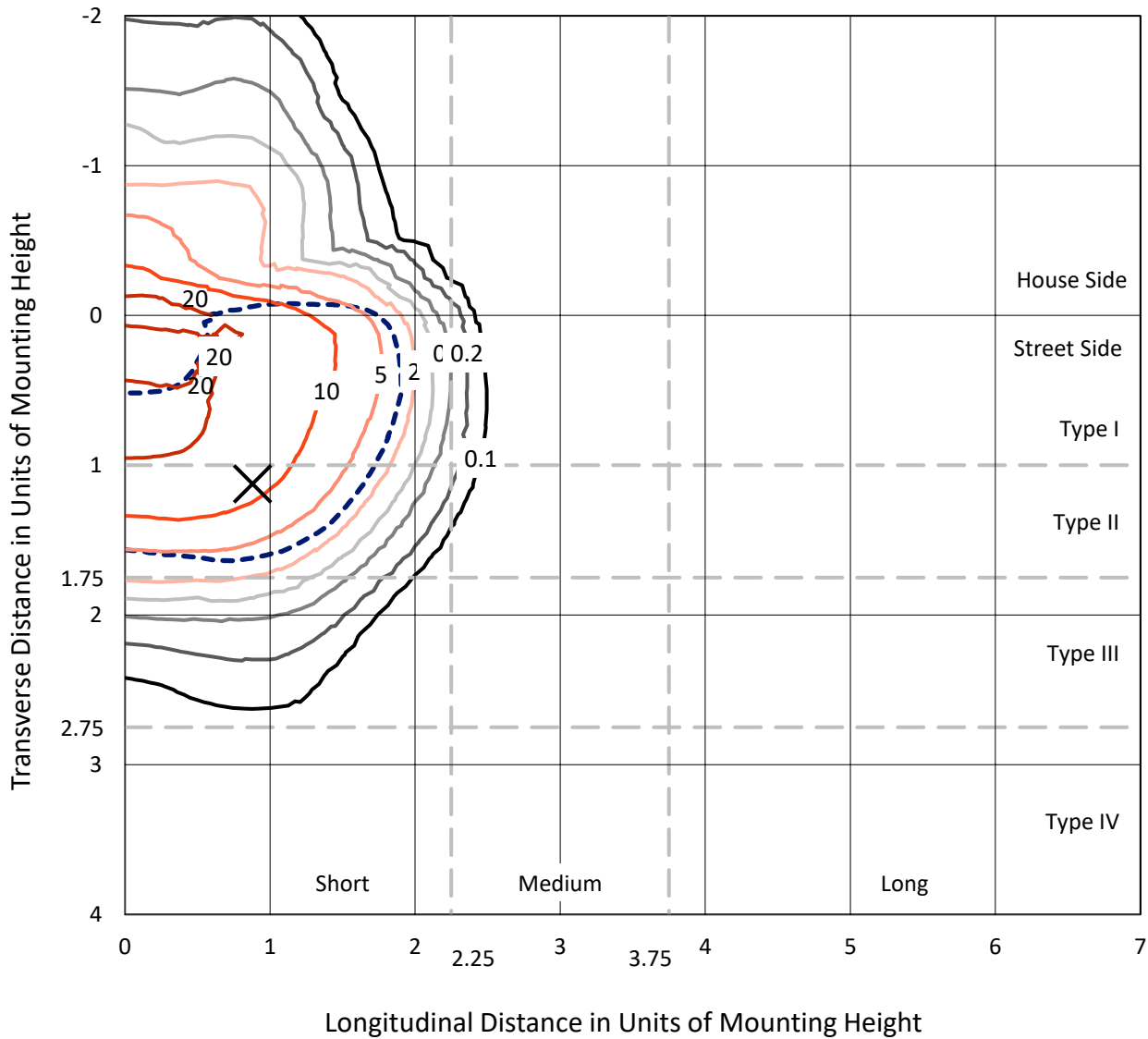
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

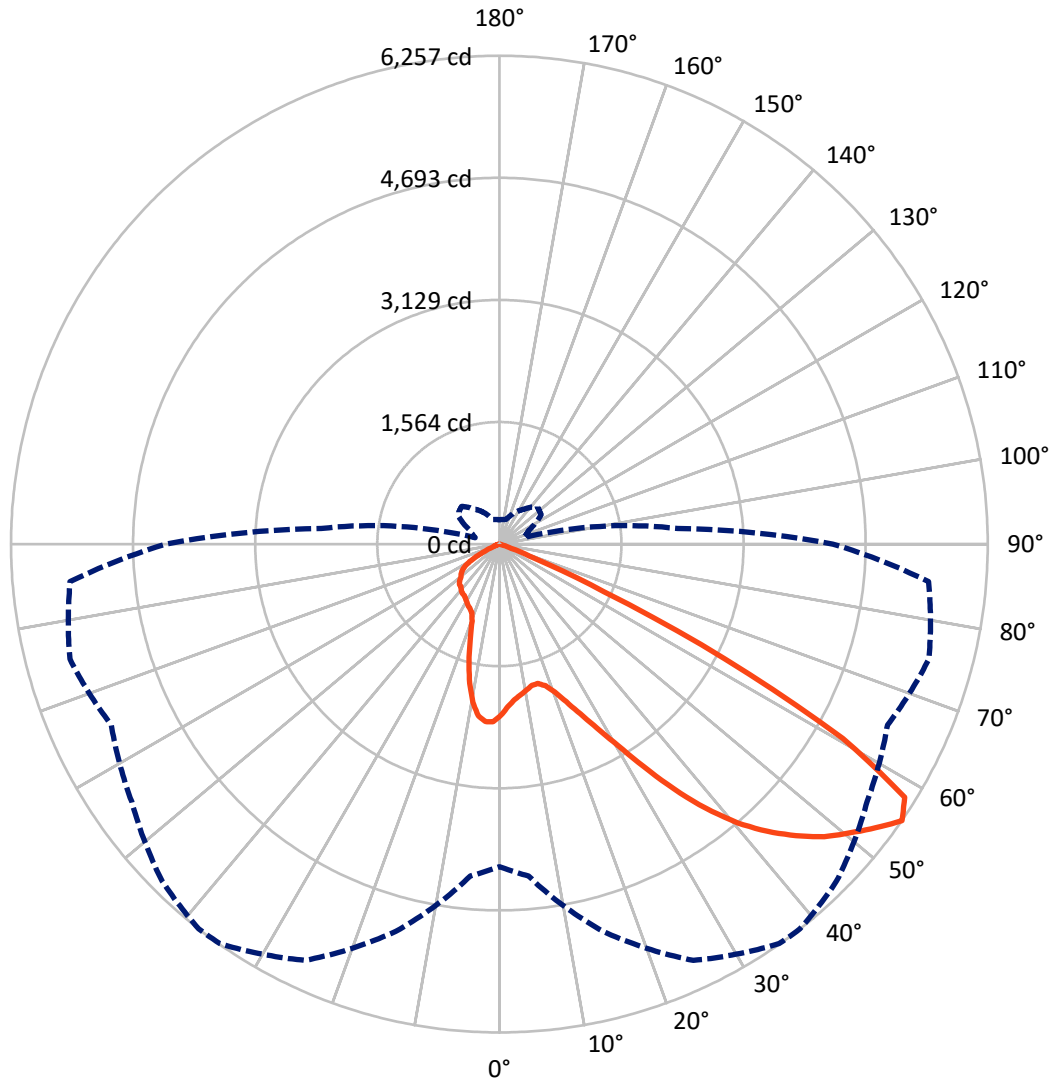
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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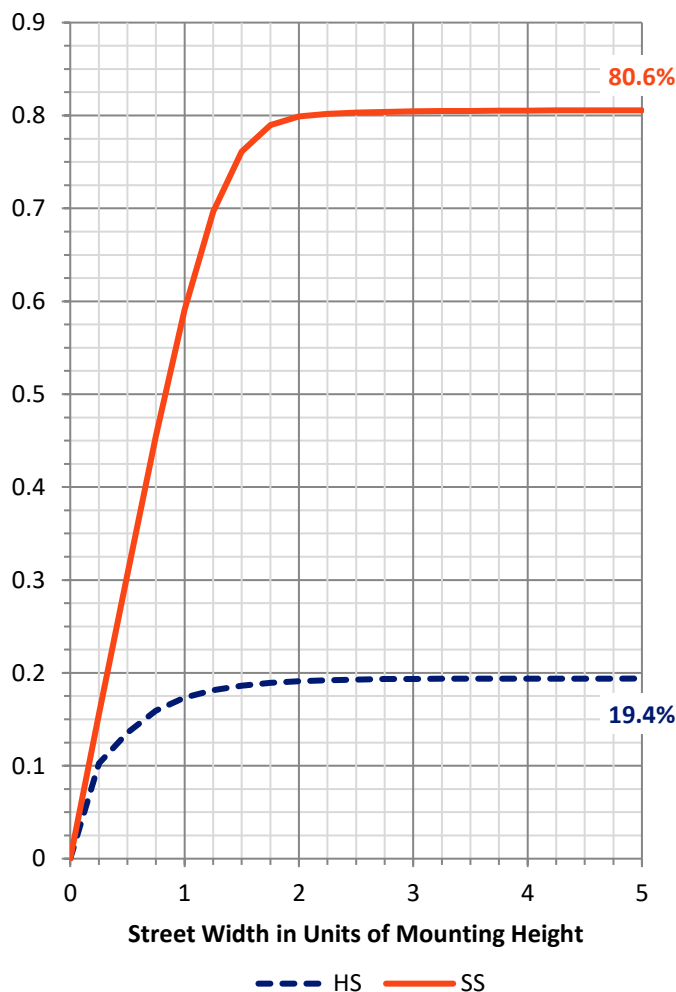
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1783.0	0.0	1783.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7368.4	0.0	7368.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	9151.4	0.0	9151.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.9	2.2
10°-20°	546.3	6.0
20°-30°	937.4	10.2
30°-40°	1554.8	17.0
40°-50°	2285.7	25.0
50°-60°	2670.9	29.2
60°-70°	905.3	9.9
70°-80°	46.3	0.5
80°-90°	1.8	0.0
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°	9151.4	100.0
0°-180°	9151.4	100.0

Coefficient of Utilization

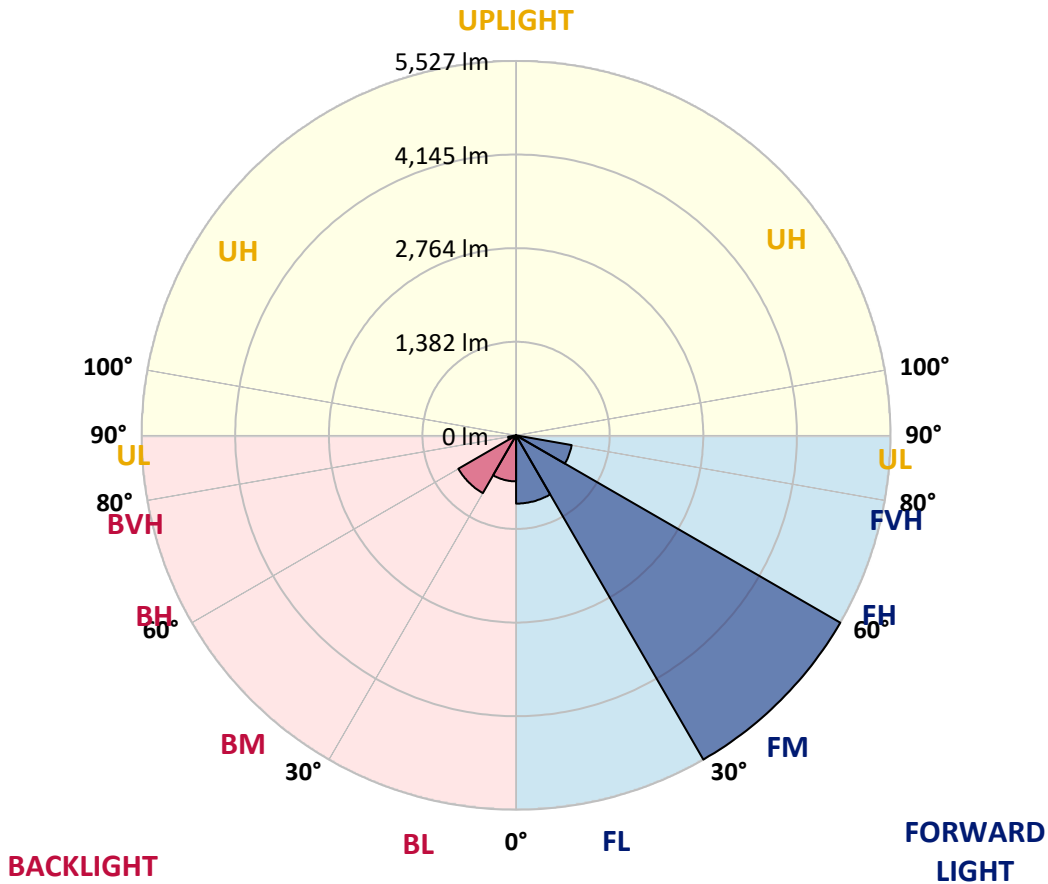


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1007.3	11.0			
FM (30°-60°)	5527.2	60.4			
FH (60°-80°)	832.9	9.1			G1/1800
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	679.3	7.4	B2/1000		
BM (30°-60°)	984.1	10.8	B1/1000		
BH (60°-80°)	118.7	1.3	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2194.6	2194.6	2194.6	2194.6	2194.6	2194.6	2194.6	2194.6	2194.6	2194.6	2194.6
2.5°	2043.9	2039.8	2048.1	2064.9	2080.6	2085.8	2101.5	2123.4	2137.0	2169.5	2195.6
5°	1951.9	1949.8	1958.2	1972.8	1993.7	2001.1	2025.1	2061.7	2098.3	2154.8	2210.3
7.5°	1868.2	1867.2	1879.7	1912.1	1942.5	1951.9	1981.2	2026.2	2075.3	2162.1	2243.7
10°	1758.4	1759.4	1783.5	1829.5	1885.0	1903.8	1950.9	2015.7	2079.5	2191.4	2304.4
12.5°	1722.8	1724.9	1737.5	1773.0	1833.7	1857.8	1923.7	2022.0	2103.6	2233.3	2382.9
15°	1809.6	1809.6	1799.2	1803.4	1830.6	1852.5	1921.6	2042.9	2144.4	2283.5	2460.3
17.5°	1978.0	1971.8	1945.6	1910.1	1900.6	1908.0	1963.4	2087.9	2201.9	2342.1	2548.1
20°	2206.1	2208.2	2156.9	2082.7	2023.0	2022.0	2055.5	2167.4	2284.5	2412.2	2643.3
22.5°	2482.2	2473.9	2405.9	2304.4	2200.9	2192.5	2206.1	2288.7	2403.8	2523.0	2760.5
25°	2802.3	2798.1	2701.9	2565.9	2428.9	2409.0	2409.0	2490.6	2574.3	2681.0	2900.6
27.5°	3137.1	3137.1	3044.0	2887.0	2705.0	2669.5	2664.2	2760.5	2815.9	2836.8	3018.8
30°	3481.2	3477.0	3385.0	3223.9	3029.3	2992.7	2978.1	3049.2	3088.9	3026.2	3166.3
32.5°	3830.6	3837.9	3744.8	3595.2	3421.6	3397.5	3352.5	3352.5	3385.0	3297.1	3398.6
35°	4206.1	4204.0	4130.8	4029.3	3880.8	3853.6	3779.3	3663.2	3712.4	3673.7	3719.7
37.5°	4537.7	4553.4	4517.8	4442.5	4322.2	4295.0	4172.6	3962.4	4000.0	4060.7	4101.5
40°	4874.5	4887.1	4922.6	4898.6	4746.9	4696.7	4479.1	4133.9	4175.8	4383.9	4501.1
42.5°	5205.1	5211.3	5283.5	5323.3	5120.3	5032.5	4711.3	4238.5	4282.5	4637.1	4842.1
45°	5415.3	5428.9	5548.2	5669.5	5449.8	5329.5	4913.2	4372.4	4391.2	4812.8	5094.2
47.5°	5406.9	5438.3	5662.2	5882.9	5733.3	5603.6	5155.9	4586.9	4555.5	4978.1	5260.5
50°	5238.5	5276.2	5597.3	5947.7	5937.3	5817.0	5425.8	4897.5	4799.2	5124.5	5281.4
52.5°	4889.2	4997.9	5483.3	5956.1	6101.5	6040.8	5759.5	5315.9	5128.7	5334.8	5314.9
55°	4133.9	4267.8	5137.1	5885.0	6250.0	6257.4	6109.9	5752.1	5486.4	5696.7	5521.0
57.5°	3138.1	3244.8	3954.0	5238.5	6004.2	6124.5	6245.9	5982.3	5707.2	5943.6	5569.1
60°	1891.2	2014.7	2476.0	3844.2	4849.4	5054.4	5530.4	5479.1	5147.5	5249.0	4567.0
62.5°	766.7	831.6	1143.3	2118.2	3052.3	3243.7	3699.8	3777.2	3695.6	3592.1	2769.9
65°	280.3	306.5	458.2	875.5	1403.8	1473.9	1714.4	1851.5	1964.4	1672.6	1030.3
67.5°	173.6	190.4	298.1	449.8	510.5	474.9	483.3	576.4	550.2	340.0	184.1
70°	128.7	142.3	233.3	311.7	206.1	159.0	107.7	115.1	103.6	91.0	90.0
72.5°	88.9	101.5	174.7	184.1	79.5	56.5	39.7	55.4	62.8	61.7	63.8
75°	58.6	68.0	109.8	72.2	19.9	15.7	13.6	29.3	37.7	37.7	38.7
77.5°	34.5	39.7	38.7	14.6	4.2	4.2	3.1	5.2	8.4	9.4	11.5
80°	4.2	3.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1	3.1
82.5°	1.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1
85°	0.0	0.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	3.1	3.1
87.5°	0.0	0.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	3.1	3.1
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°	2194.6	2194.6	2194.6	2194.6	2194.6	2194.6	2194.6	2194.6	2194.6	2194.6	2194.6
2.5°	2215.5	2208.2	2238.5	2260.5	2278.3	2286.6	2275.1	2274.1	2274.1	2251.1	2244.8
5°	2241.6	2244.8	2287.7	2306.5	2309.6	2299.2	2273.0	2255.2	2244.8	2220.7	2207.1
7.5°	2291.9	2302.3	2343.1	2340.0	2311.7	2263.6	2194.6	2141.2	2106.7	2069.1	2046.0
10°	2364.0	2383.9	2409.0	2365.1	2275.1	2152.7	2010.5	1909.0	1848.3	1805.5	1779.3
12.5°	2451.9	2471.8	2463.4	2359.8	2172.6	1954.0	1770.9	1624.5	1554.4	1515.7	1488.5
15°	2540.8	2553.4	2499.0	2297.1	1991.6	1697.7	1493.7	1348.3	1262.6	1231.2	1208.2
17.5°	2631.8	2628.7	2505.2	2173.7	1750.0	1409.0	1208.2	1108.8	1084.7	1079.5	1077.4
20°	2727.0	2698.8	2480.1	1996.9	1459.2	1123.4	1009.4	1015.7	1059.6	1080.6	1084.7
22.5°	2835.8	2764.7	2417.4	1757.3	1162.1	936.2	947.7	1009.4	1069.0	1097.3	1101.5
25°	2951.9	2825.3	2312.8	1449.8	916.3	860.9	928.9	1000.0	1063.8	1098.3	1102.5
27.5°	3028.3	2840.0	2141.2	1140.2	786.6	831.6	903.8	971.8	1037.7	1075.3	1080.6
30°	3110.9	2833.7	1908.0	878.7	742.7	806.5	869.3	931.0	991.6	1033.5	1037.7
32.5°	3232.2	2829.5	1623.4	713.4	724.9	786.6	832.6	883.9	925.7	949.8	946.7
35°	3391.2	2824.3	1291.8	643.3	714.4	770.9	807.5	831.6	785.6	770.9	774.1
37.5°	3595.2	2836.8	1012.6	614.0	711.3	766.7	798.1	729.1	658.0	630.8	626.6
40°	3821.2	2869.3	772.0	602.5	721.8	777.2	762.6	648.5	560.7	507.3	495.8
42.5°	4048.1	2904.8	610.9	598.3	739.5	806.5	704.0	590.0	458.2	427.8	423.6
45°	4216.6	2898.6	528.2	591.0	755.2	823.2	688.3	506.3	409.0	395.4	396.4
47.5°	4301.3	2829.5	483.3	574.3	761.5	806.5	649.6	471.8	375.5	390.2	402.7
50°	4256.3	2650.6	441.4	541.8	747.9	784.5	587.9	445.6	358.8	419.5	447.7
52.5°	4201.9	2431.0	395.4	491.6	715.5	754.2	563.8	438.3	348.3	404.8	425.7
55°	4274.1	2291.9	320.1	414.2	651.7	683.1	545.0	437.2	324.3	314.9	311.7
57.5°	4172.6	2014.7	229.1	298.1	500.0	540.8	531.4	429.9	287.7	286.6	290.8
60°	3224.9	1229.1	156.9	189.3	306.5	345.2	482.2	411.1	247.9	228.0	229.1
62.5°	1832.6	523.0	107.7	117.2	156.9	186.2	368.2	373.4	229.1	217.6	229.1
65°	638.1	187.2	83.7	78.5	86.8	99.4	211.3	288.7	208.2	188.3	190.4
67.5°	131.8	93.1	74.3	64.9	64.9	64.9	107.7	179.9	171.5	149.6	151.7
70°	83.7	79.5	64.9	55.4	53.3	49.2	61.7	99.4	118.2	108.8	109.8
72.5°	61.7	60.7	51.3	45.0	39.7	35.6	38.7	49.2	60.7	62.8	63.8
75°	37.7	38.7	33.5	28.2	25.1	22.0	23.0	23.0	23.0	20.9	23.0
77.5°	11.5	12.6	10.5	8.4	7.3	7.3	7.3	6.3	5.2	3.1	3.1
80°	3.1	3.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0	0.0	0.0
82.5°	3.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0
85°	3.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0
87.5°	3.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0	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)