

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: P636905

Luminaire Tested: GWS-SA4B-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636905
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-SA4B-760-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9158.9 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

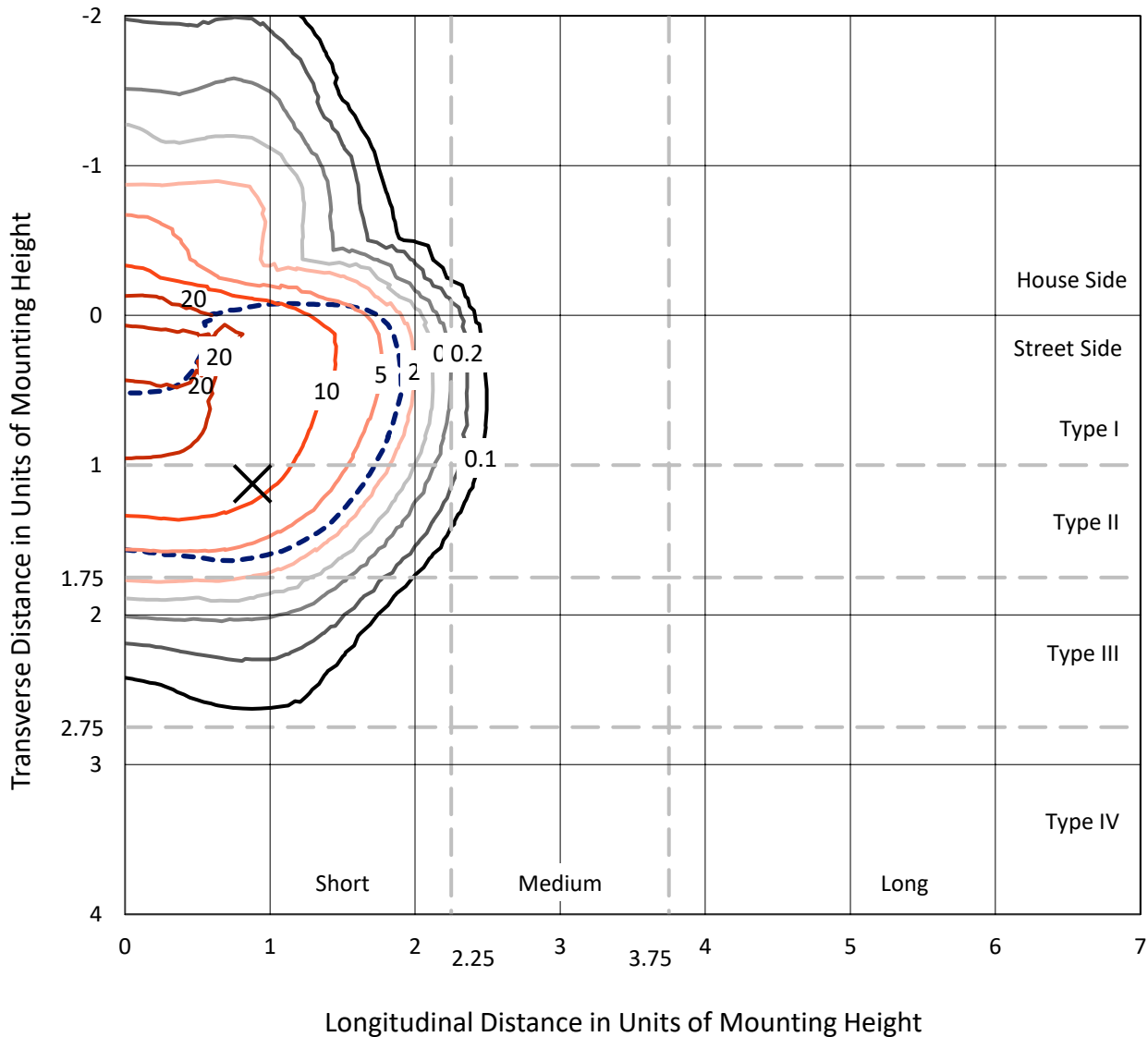
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

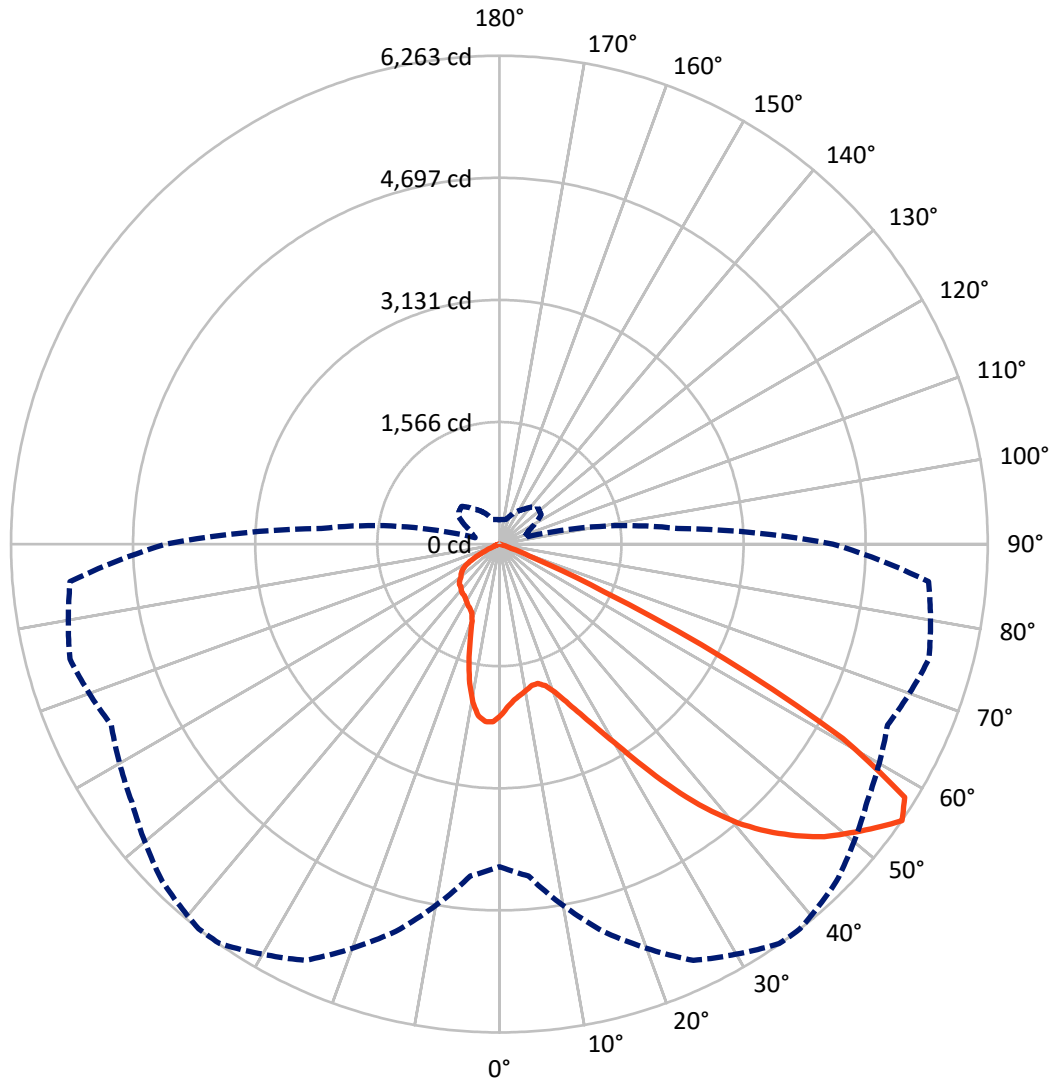
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23 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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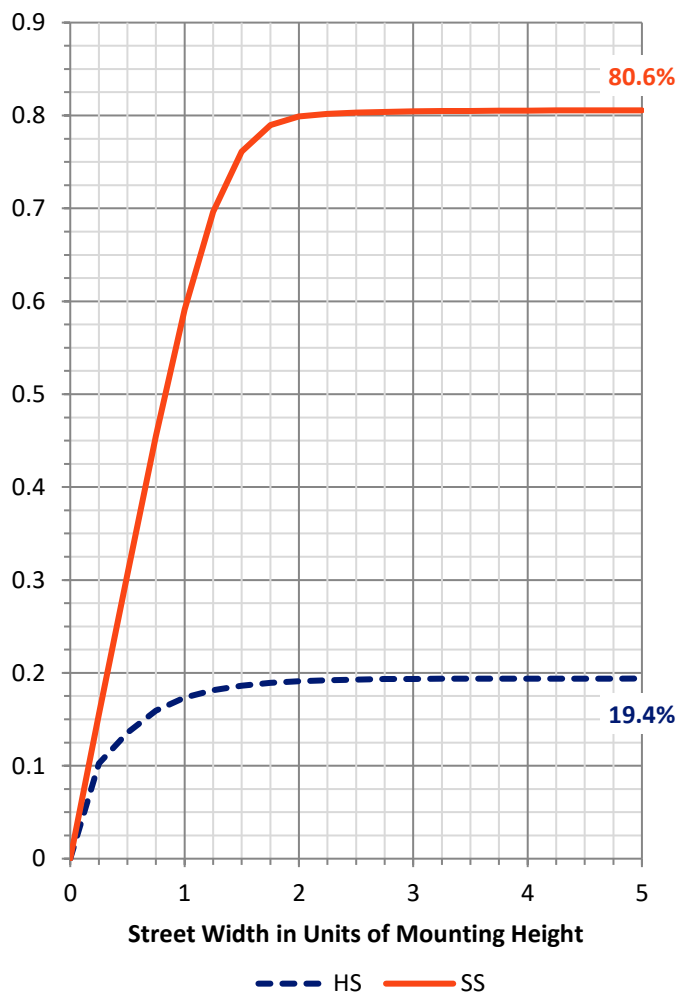
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1784.4	0.0	1784.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7374.5	0.0	7374.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	9158.9	0.0	9158.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	2.2
10°-20°	546.7	6.0
20°-30°	938.2	10.2
30°-40°	1556.1	17.0
40°-50°	2287.5	25.0
50°-60°	2673.0	29.2
60°-70°	906.1	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°	9158.9	100.0
0°-180°	9158.9	100.0

Coefficient of Utilization



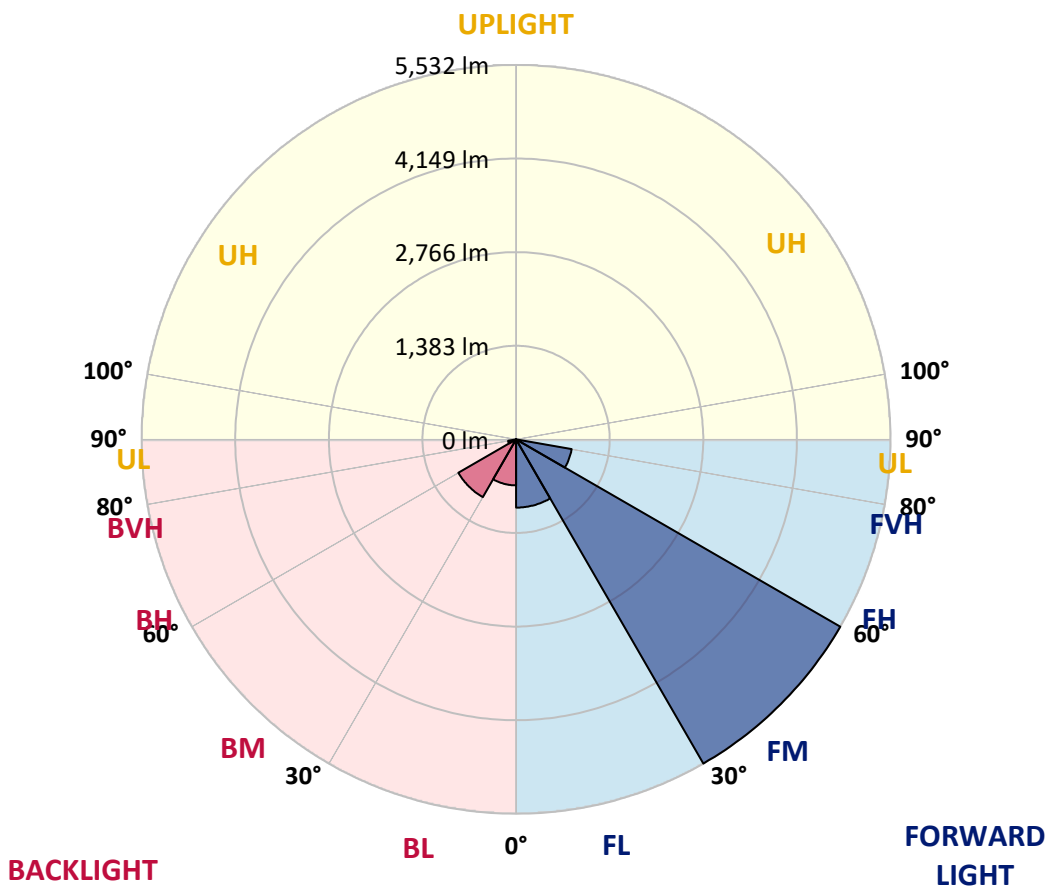
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1008.2	11.0			
FM (30°-60°)	5531.7	60.4			
FH (60°-80°)	833.6	9.1			G1/1800
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	679.9	7.4	B2/1000		
BM (30°-60°)	984.9	10.8	B1/1000		
BH (60°-80°)	118.8	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°	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4
2.5°	2045.6	2041.4	2049.8	2066.6	2082.3	2087.5	2103.2	2125.2	2138.8	2171.2	2197.4
5°	1953.5	1951.4	1959.8	1974.4	1995.4	2002.7	2026.8	2063.4	2100.1	2156.6	2212.1
7.5°	1869.7	1868.7	1881.3	1913.7	1944.1	1953.5	1982.8	2027.8	2077.0	2163.9	2245.6
10°	1759.8	1760.9	1784.9	1831.0	1886.5	1905.3	1952.4	2017.4	2081.2	2193.2	2306.3
12.5°	1724.2	1726.3	1738.9	1774.5	1835.2	1859.3	1925.2	2023.6	2105.3	2235.1	2384.8
15°	1811.1	1811.1	1800.7	1804.8	1832.1	1854.0	1923.1	2044.6	2146.1	2285.4	2462.3
17.5°	1979.7	1973.4	1947.2	1911.6	1902.2	1909.5	1965.0	2089.6	2203.7	2344.0	2550.2
20°	2207.9	2210.0	2158.7	2084.4	2024.7	2023.6	2057.1	2169.2	2286.4	2414.1	2645.5
22.5°	2484.3	2475.9	2407.8	2306.3	2202.7	2194.3	2207.9	2290.6	2405.8	2525.1	2762.7
25°	2804.6	2800.4	2704.1	2568.0	2430.9	2411.0	2411.0	2492.6	2576.4	2683.2	2903.0
27.5°	3139.6	3139.6	3046.4	2889.4	2707.3	2671.7	2666.4	2762.7	2818.2	2839.2	3021.3
30°	3484.0	3479.9	3387.7	3226.5	3031.8	2995.2	2980.5	3051.7	3091.5	3028.7	3168.9
32.5°	3833.7	3841.0	3747.9	3598.2	3424.4	3400.3	3355.3	3355.3	3387.7	3299.8	3401.3
35°	4209.5	4207.4	4134.2	4032.6	3884.0	3856.7	3782.4	3666.2	3715.4	3676.7	3722.7
37.5°	4541.4	4557.1	4521.5	4446.1	4325.7	4298.5	4176.0	3965.6	4003.3	4064.0	4104.9
40°	4878.5	4891.1	4926.7	4902.6	4750.8	4700.5	4482.8	4137.3	4179.2	4387.5	4504.8
42.5°	5209.3	5215.6	5287.8	5327.6	5124.5	5036.6	4715.2	4242.0	4286.0	4640.9	4846.1
45°	5419.7	5433.4	5552.7	5674.1	5454.3	5333.9	4917.2	4376.0	4394.8	4816.7	5098.4
47.5°	5411.4	5442.8	5666.8	5887.7	5738.0	5608.2	5160.1	4590.6	4559.2	4982.1	5264.8
50°	5242.8	5280.5	5601.9	5952.6	5942.1	5821.8	5430.2	4901.5	4803.1	5128.7	5285.7
52.5°	4893.2	5002.0	5487.8	5961.0	6106.5	6045.8	5764.2	5320.3	5132.9	5339.1	5319.2
55°	4137.3	4271.3	5141.3	5889.8	6255.2	6262.5	6114.9	5756.8	5490.9	5701.4	5525.5
57.5°	3140.7	3247.5	3957.2	5242.8	6009.1	6129.5	6251.0	5987.2	5711.8	5948.4	5573.6
60°	1892.8	2016.3	2478.0	3847.3	4853.4	5058.6	5534.9	5483.6	5151.7	5253.3	4570.7
62.5°	767.4	832.3	1144.3	2120.0	3054.8	3246.4	3702.8	3780.3	3698.7	3595.0	2772.2
65°	280.6	306.7	458.5	876.2	1404.9	1475.1	1715.9	1853.0	1966.1	1674.0	1031.2
67.5°	173.8	190.5	298.4	450.2	510.9	475.3	483.7	576.8	550.7	340.2	184.3
70°	128.8	142.4	233.5	312.0	206.2	159.1	107.8	115.2	103.6	91.1	90.0
72.5°	89.0	101.5	174.8	184.3	79.6	56.5	39.8	55.5	62.8	61.8	63.9
75°	58.6	68.0	109.9	72.2	19.9	15.7	13.6	29.3	37.7	37.7	38.7
77.5°	34.5	39.8	38.7	14.7	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°	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4	2196.4
2.5°	2217.3	2210.0	2240.3	2262.3	2280.1	2288.5	2277.0	2275.9	2275.9	2252.9	2246.6
5°	2243.5	2246.6	2289.5	2308.4	2311.5	2301.1	2274.9	2257.1	2246.6	2222.5	2208.9
7.5°	2293.7	2304.2	2345.0	2341.9	2313.6	2265.5	2196.4	2143.0	2108.4	2070.7	2047.7
10°	2366.0	2385.9	2411.0	2367.0	2277.0	2154.5	2012.1	1910.6	1849.9	1806.9	1780.8
12.5°	2453.9	2473.8	2465.4	2361.8	2174.4	1955.6	1772.4	1625.8	1555.7	1516.9	1489.7
15°	2542.9	2555.5	2501.0	2299.0	1993.3	1699.1	1495.0	1349.4	1263.6	1232.2	1209.2
17.5°	2634.0	2630.8	2507.3	2175.4	1751.4	1410.2	1209.2	1109.7	1085.6	1080.4	1078.3
20°	2729.2	2701.0	2482.2	1998.5	1460.4	1124.4	1010.2	1016.5	1060.5	1081.4	1085.6
22.5°	2838.1	2766.9	2419.4	1758.8	1163.1	937.0	948.5	1010.2	1069.9	1098.2	1102.4
25°	2954.3	2827.6	2314.7	1451.0	917.1	861.6	929.6	1000.8	1064.7	1099.2	1103.4
27.5°	3030.7	2842.3	2143.0	1141.1	787.3	832.3	904.5	972.6	1038.5	1076.2	1081.4
30°	3113.4	2836.0	1909.5	879.4	743.3	807.2	870.0	931.7	992.5	1034.3	1038.5
32.5°	3234.9	2831.8	1624.8	714.0	725.5	787.3	833.3	884.6	926.5	950.6	947.4
35°	3394.0	2826.6	1292.9	643.8	715.0	771.6	808.2	832.3	786.2	771.6	774.7
37.5°	3598.2	2839.2	1013.4	614.5	711.9	767.4	798.8	729.7	658.5	631.3	627.1
40°	3824.3	2871.6	772.6	603.0	722.4	777.8	763.2	649.1	561.1	507.7	496.2
42.5°	4051.5	2907.2	611.4	598.8	740.2	807.2	704.6	590.4	458.5	428.2	424.0
45°	4220.0	2900.9	528.7	591.5	755.9	823.9	688.9	506.7	409.3	395.7	396.8
47.5°	4304.8	2831.8	483.7	574.7	762.1	807.2	650.1	472.1	375.8	390.5	403.1
50°	4259.8	2652.8	441.8	542.3	748.5	785.2	588.4	446.0	359.1	419.8	448.1
52.5°	4205.4	2433.0	395.7	492.0	716.1	754.8	564.3	438.6	348.6	405.1	426.1
55°	4277.6	2293.7	320.3	414.6	652.2	683.6	545.4	437.6	324.5	315.1	312.0
57.5°	4176.0	2016.3	229.3	298.4	500.4	541.2	531.8	430.3	287.9	286.8	291.0
60°	3227.6	1230.1	157.0	189.5	306.7	345.5	482.6	411.4	248.1	228.2	229.3
62.5°	1834.2	523.4	107.8	117.3	157.0	186.3	368.5	373.7	229.3	217.8	229.3
65°	638.6	187.4	83.8	78.5	86.9	99.5	211.5	288.9	208.3	188.4	190.5
67.5°	131.9	93.2	74.3	64.9	64.9	64.9	107.8	180.1	171.7	149.7	151.8
70°	83.8	79.6	64.9	55.5	53.4	49.2	61.8	99.5	118.3	108.9	109.9
72.5°	61.8	60.7	51.3	45.0	39.8	35.6	38.7	49.2	60.7	62.8	63.9
75°	37.7	38.7	33.5	28.3	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)