

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: P632577

Luminaire Tested: GWS-SA2D-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-722-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6477.5 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

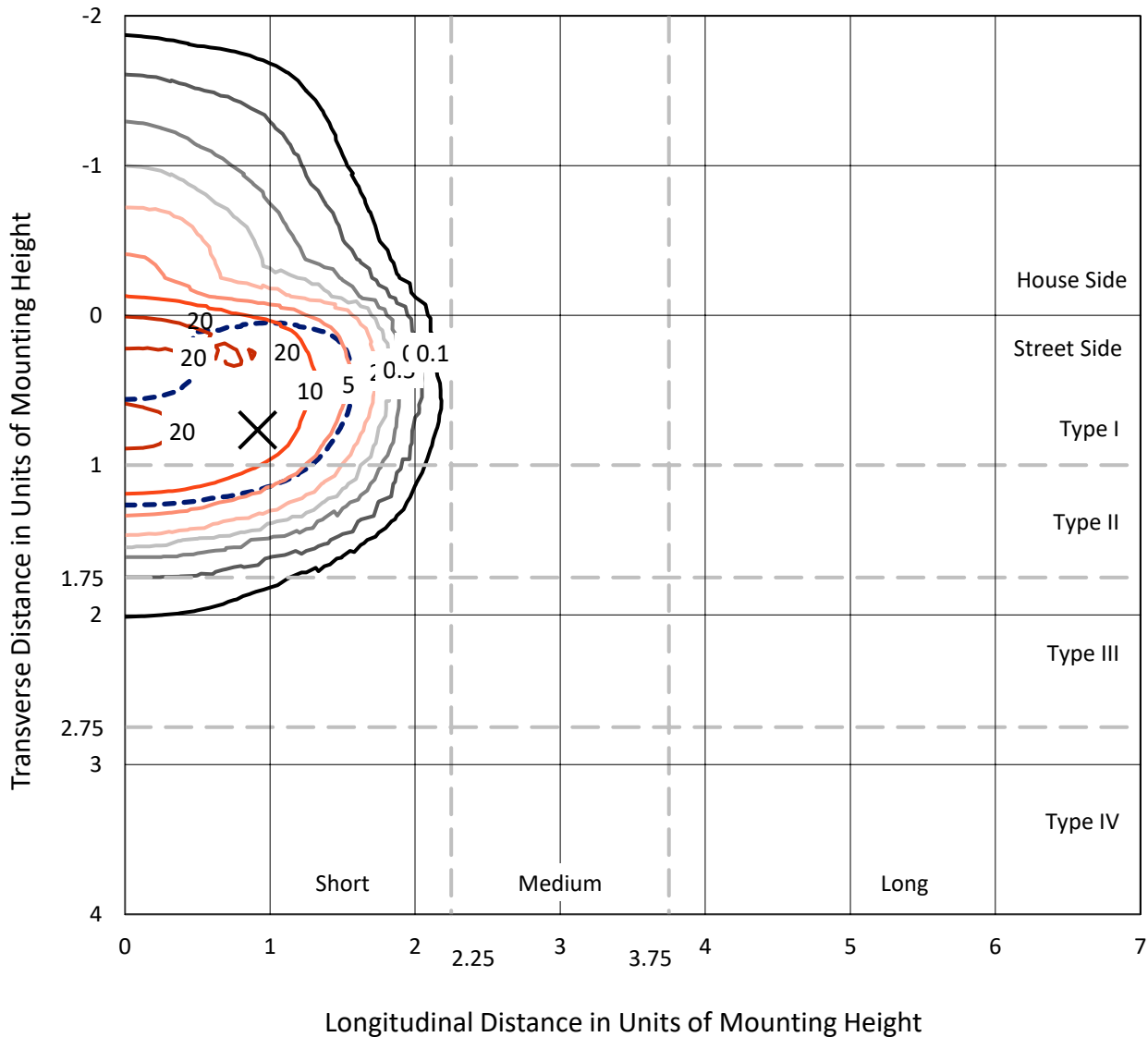
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

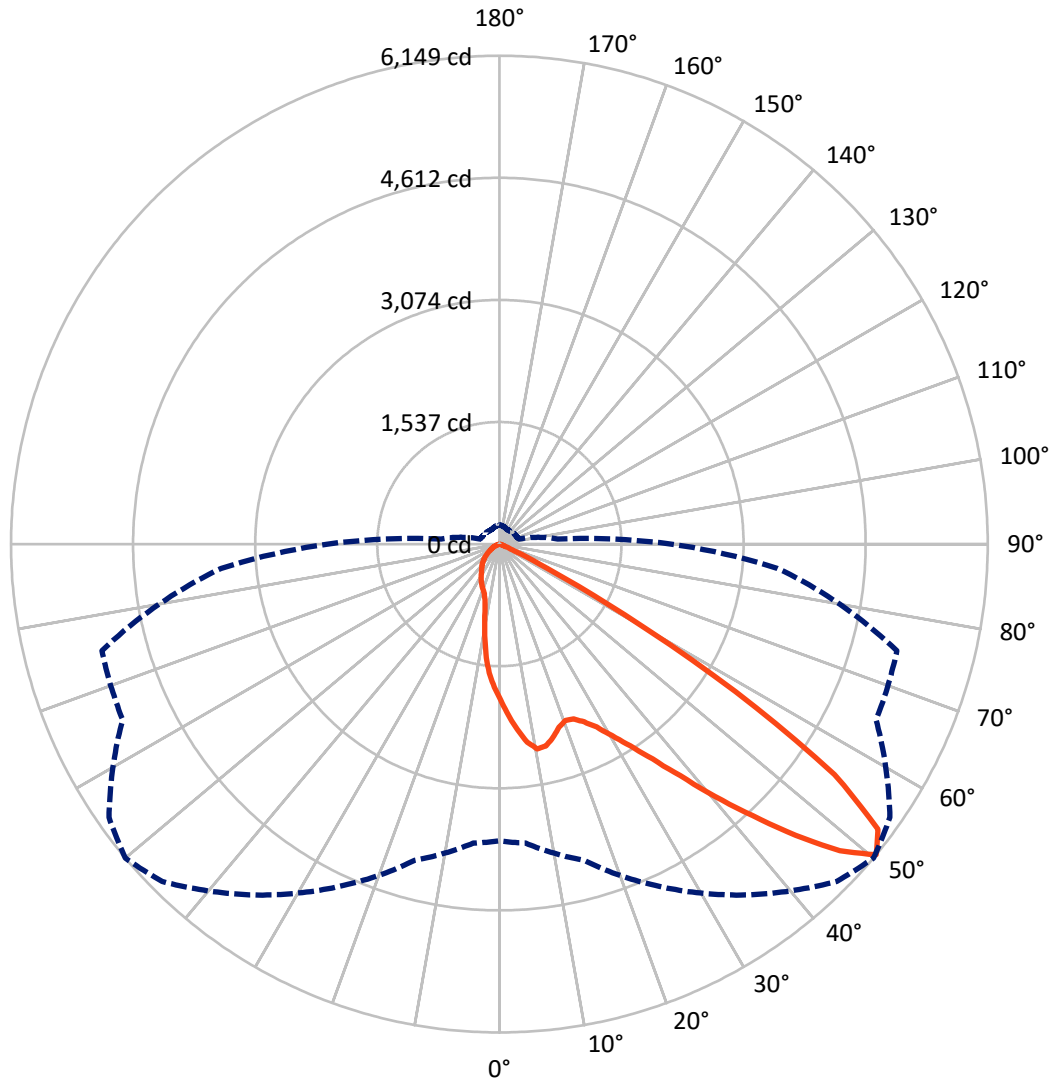
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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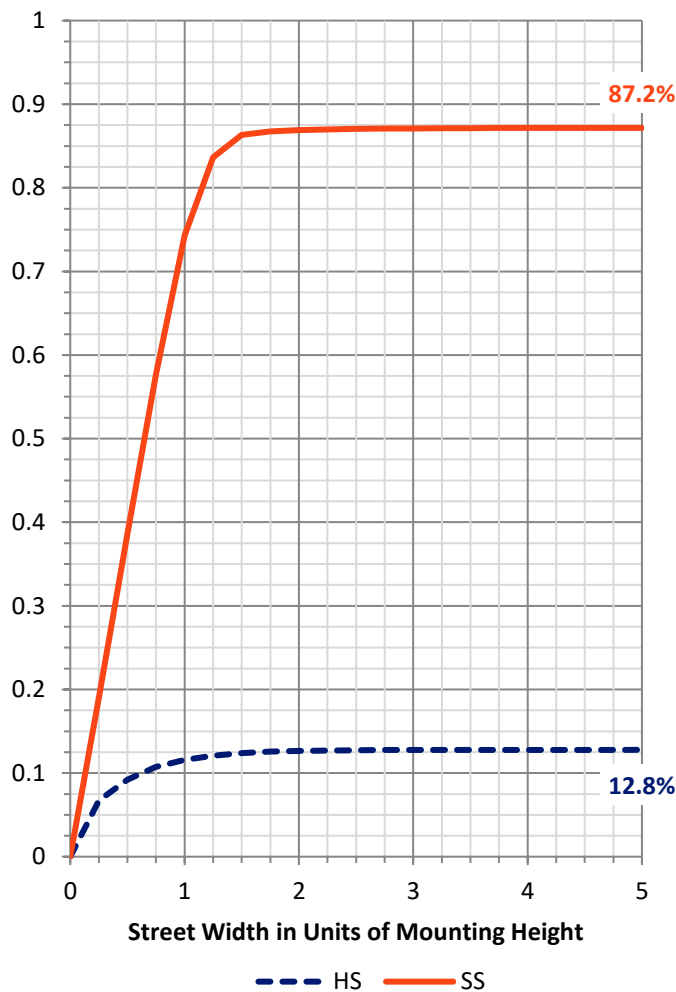
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	832.3	0.0	832.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5645.2	0.0	5645.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	6477.5	0.0	6477.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	2.8
10°-20°	469.7	7.3
20°-30°	775.2	12.0
30°-40°	1279.2	19.7
40°-50°	2023.9	31.2
50°-60°	1532.4	23.7
60°-70°	191.8	3.0
70°-80°	21.7	0.3
80°-90°	1.7	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°	6477.5	100.0
0°-180°	6477.5	100.0

Coefficient of Utilization



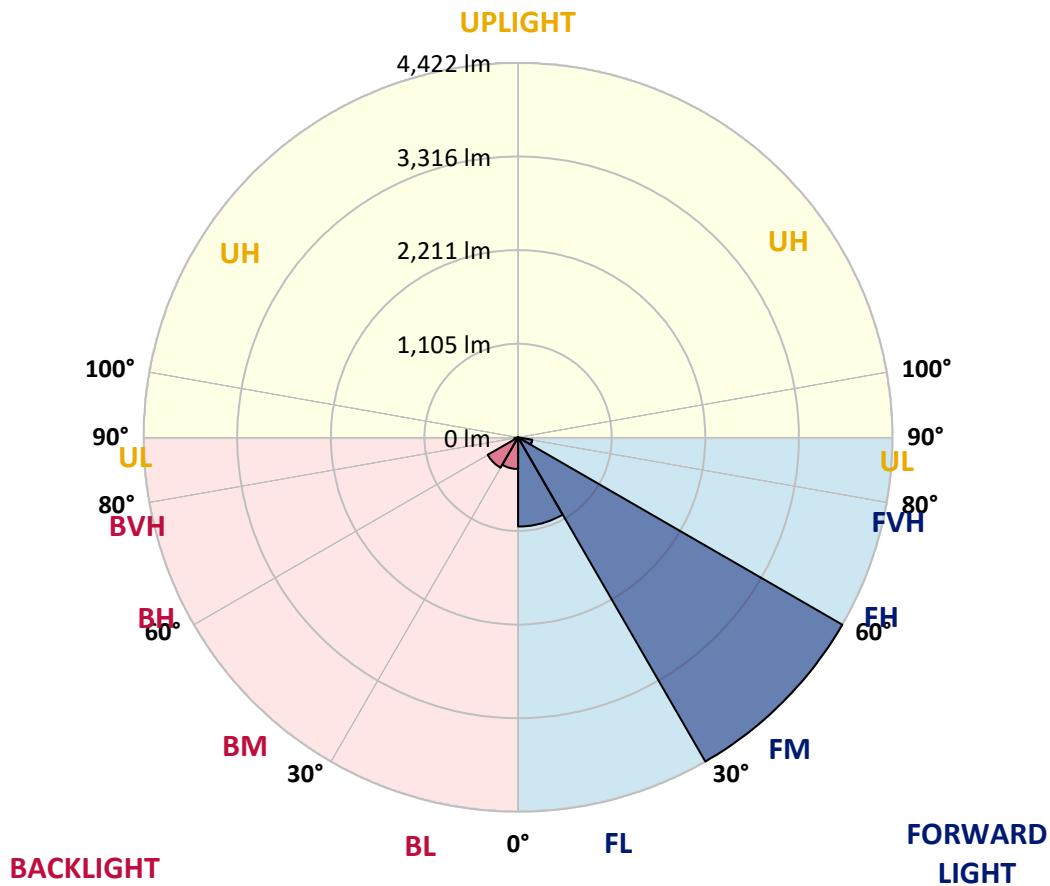
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.3	16.3			
FM (30°-60°)	4421.6	68.3			
FH (60°-80°)	169.6	2.6			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	373.6	5.8	B1/500		
BM (30°-60°)	413.9	6.4	B1/1000		
BH (60°-80°)	43.9	0.7	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4
2.5°	2236.2	2254.0	2249.1	2225.7	2200.4	2182.5	2154.8	2146.2	2083.3	2039.5	1993.3
5°	2506.2	2511.8	2505.6	2477.2	2432.8	2390.3	2344.7	2318.2	2212.7	2117.8	2021.0
7.5°	2570.9	2564.2	2575.9	2590.1	2583.9	2565.4	2517.3	2488.3	2362.6	2207.8	2061.1
10°	2368.7	2353.3	2397.1	2470.4	2547.5	2634.4	2622.1	2624.6	2508.7	2321.2	2113.5
12.5°	2100.5	2094.4	2127.0	2212.1	2363.2	2560.5	2607.9	2687.5	2642.5	2443.9	2173.3
15°	1982.8	1985.9	2005.6	2059.2	2167.7	2413.1	2527.2	2670.8	2762.1	2562.9	2239.2
17.5°	2000.7	2011.7	2011.1	2029.0	2095.0	2291.7	2424.8	2618.4	2854.5	2699.8	2315.1
20°	2122.1	2133.2	2116.6	2103.0	2125.2	2260.8	2371.2	2565.4	2916.8	2837.9	2395.2
22.5°	2304.0	2316.9	2277.5	2238.6	2224.5	2311.4	2391.5	2543.8	2964.3	2964.3	2466.7
25°	2524.1	2542.0	2480.9	2411.9	2372.4	2418.0	2478.5	2592.5	3013.0	3077.7	2515.5
27.5°	2770.1	2770.7	2718.3	2640.6	2566.6	2572.2	2608.6	2702.3	3066.6	3199.8	2553.7
30°	3046.9	3048.8	2979.1	2886.0	2792.9	2767.6	2798.4	2869.3	3178.2	3353.3	2606.7
32.5°	3404.5	3413.1	3313.2	3176.4	3055.5	3008.1	3025.9	3100.5	3355.8	3545.7	2686.2
35°	3887.9	3897.1	3749.8	3569.1	3376.8	3305.2	3323.1	3398.3	3612.9	3818.8	2813.2
37.5°	4365.1	4377.4	4228.2	4059.9	3796.0	3677.6	3696.1	3767.6	3998.8	4196.1	3016.7
40°	4694.9	4711.5	4665.3	4551.9	4307.1	4151.7	4173.9	4199.8	4423.6	4647.4	3280.6
42.5°	4868.8	4892.2	4911.9	4969.9	4841.0	4710.9	4673.3	4675.2	4855.8	5107.4	3554.9
45°	4879.2	4902.1	5003.2	5227.0	5325.0	5297.9	5229.4	5183.2	5185.7	5413.8	3726.3
47.5°	4540.2	4582.7	4772.0	5210.3	5579.0	5804.0	5769.5	5659.8	5324.4	5434.1	3707.8
50°	3736.8	3778.7	4122.8	4753.5	5394.0	6006.3	6148.7	6001.3	5233.7	5180.7	3517.3
52.5°	2714.0	2718.3	2941.5	3678.2	4644.3	5633.3	5968.7	5954.5	5095.6	4873.7	3257.1
55°	1289.2	1273.8	1524.7	2075.9	3212.1	4556.2	5121.5	5281.8	4899.6	4651.7	3055.5
57.5°	375.5	382.9	494.5	810.1	1606.7	2911.9	3507.5	3805.9	4021.6	3824.4	2370.0
60°	168.3	168.9	188.0	246.6	535.2	1354.5	1813.2	2182.5	2404.5	2228.2	1175.7
62.5°	122.1	122.7	130.1	139.3	181.9	458.7	680.0	906.3	923.0	604.2	297.8
65°	101.7	101.7	103.0	103.0	109.1	164.0	206.5	266.3	224.4	166.5	116.5
67.5°	82.0	82.6	83.8	83.8	82.0	82.0	88.8	97.4	104.2	128.9	107.3
70°	64.1	63.5	63.5	64.1	62.3	53.0	57.3	65.4	71.5	100.5	93.1
72.5°	49.9	50.6	49.9	47.5	43.2	31.4	33.9	42.5	45.6	62.9	62.9
75°	37.6	38.2	35.8	27.1	17.9	9.9	12.9	21.0	26.5	30.8	22.8
77.5°	4.9	4.9	3.7	3.7	3.1	3.7	3.7	4.9	7.4	7.4	5.5
80°	0.6	0.6	0.6	1.2	1.8	2.5	2.5	2.5	2.5	3.1	3.1
82.5°	0.6	0.6	0.6	0.6	1.8	1.8	2.5	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.6	1.2	1.8	1.8	2.5	2.5	2.5	2.5
87.5°	0.0	0.0	0.0	0.6	1.2	1.8	1.8	1.8	2.5	2.5	2.5
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°	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4	1962.4
2.5°	1965.5	1929.7	1886.6	1857.0	1815.1	1787.3	1747.9	1721.4	1698.5	1680.7	1690.5
5°	1966.1	1909.4	1821.2	1746.0	1664.0	1588.8	1508.0	1444.5	1387.2	1361.3	1375.5
7.5°	1978.5	1897.1	1762.1	1628.3	1471.0	1315.7	1170.2	1051.8	993.2	965.5	974.1
10°	2002.5	1891.5	1696.1	1474.1	1218.9	1006.8	865.6	785.5	752.8	735.5	738.6
12.5°	2024.7	1887.8	1610.4	1271.3	961.8	781.1	707.8	696.7	703.5	704.1	703.5
15°	2054.9	1881.0	1504.3	1062.9	769.4	675.1	677.0	693.0	709.0	713.9	712.7
17.5°	2087.0	1870.6	1367.5	863.1	652.9	644.3	665.9	687.4	703.5	705.9	706.5
20°	2120.3	1849.0	1211.5	704.7	598.7	620.8	644.9	660.9	672.6	676.3	677.6
22.5°	2135.7	1803.4	1031.5	591.3	562.3	591.9	609.8	630.7	634.4	620.8	623.3
25°	2127.7	1726.3	855.7	514.8	525.9	555.5	582.0	571.5	556.1	546.2	549.3
27.5°	2102.4	1623.9	683.7	458.7	487.1	524.7	527.8	516.0	513.6	505.6	508.0
30°	2075.3	1506.2	549.9	413.7	447.6	487.1	477.8	482.1	482.7	473.5	476.6
32.5°	2058.6	1382.9	437.7	383.5	422.3	429.7	448.2	456.9	457.5	435.9	439.6
35°	2064.2	1261.4	370.5	358.8	398.9	397.0	422.9	427.9	392.1	362.5	365.6
37.5°	2109.2	1149.2	332.3	339.7	358.2	372.4	392.1	359.4	351.4	337.9	339.7
40°	2193.0	1053.7	309.5	328.0	330.5	353.3	323.1	327.4	328.0	319.4	321.2
42.5°	2291.0	974.1	295.9	321.2	315.0	318.7	288.5	297.2	306.4	302.7	303.3
45°	2340.4	896.4	284.2	297.8	299.6	264.5	257.7	267.0	278.7	280.5	281.1
47.5°	2296.6	822.5	271.9	263.9	276.2	241.1	233.0	236.1	249.7	257.1	258.3
50°	2162.8	737.4	253.4	233.7	226.9	216.4	209.0	209.6	225.0	238.0	240.4
52.5°	1974.8	648.6	223.2	197.9	182.5	190.5	192.4	188.7	202.8	215.8	218.3
55°	1792.3	537.6	176.9	160.9	146.7	164.0	168.9	164.0	168.3	176.9	177.6
57.5°	1262.0	304.0	135.6	133.2	121.5	140.6	148.6	141.2	133.8	139.3	140.6
60°	585.1	159.1	104.2	104.2	101.1	120.8	134.4	123.9	109.7	112.2	114.1
62.5°	183.1	100.5	76.5	72.1	82.6	103.0	114.1	103.6	86.9	86.9	89.4
65°	103.6	86.3	60.4	55.5	67.2	82.6	89.4	78.3	63.5	62.3	62.3
67.5°	96.2	82.0	53.6	45.0	47.5	53.0	55.5	48.1	43.8	43.2	43.8
70°	79.5	68.4	43.2	30.8	29.0	28.4	29.6	27.7	26.5	27.1	29.0
72.5°	49.3	41.3	27.1	18.5	16.0	15.4	15.4	15.4	14.8	14.8	14.8
75°	17.9	15.4	12.3	9.2	8.0	7.4	7.4	8.0	7.4	6.8	6.2
77.5°	5.5	4.9	4.9	4.9	4.3	3.7	3.1	3.1	2.5	1.8	1.8
80°	3.1	3.1	3.1	3.1	2.5	2.5	1.8	1.2	0.6	0.6	0.0
82.5°	3.1	3.1	3.1	2.5	2.5	2.5	1.8	1.2	0.6	0.0	0.0
85°	2.5	2.5	2.5	2.5	2.5	2.5	1.8	1.2	0.6	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.8	1.2	0.6	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)