

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: P631203

Luminaire Tested: GWS-SA1F-730-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631203
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-730-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, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6959.9 lumens
Efficiency: N/A
Efficacy: 103.6 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

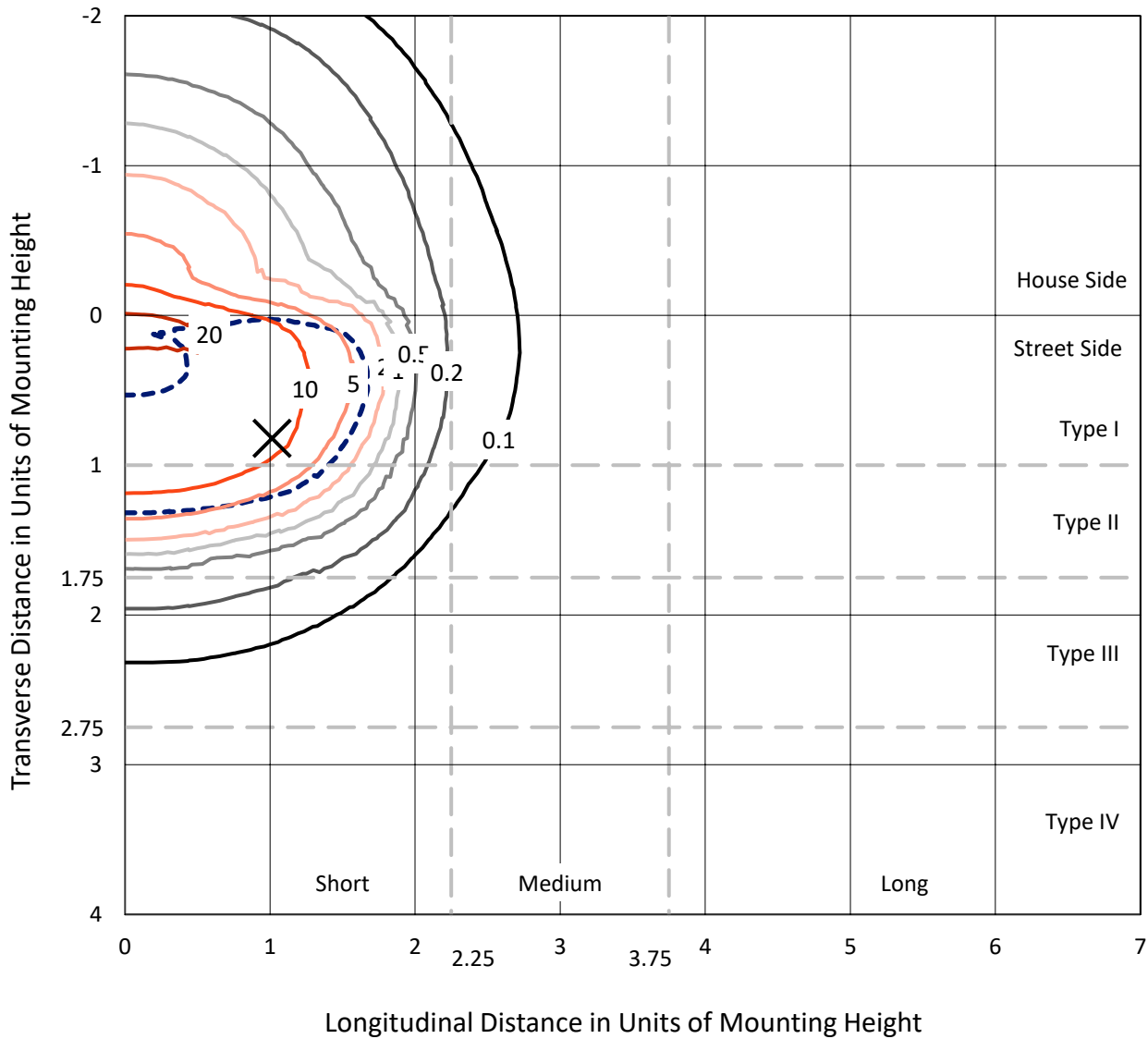
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

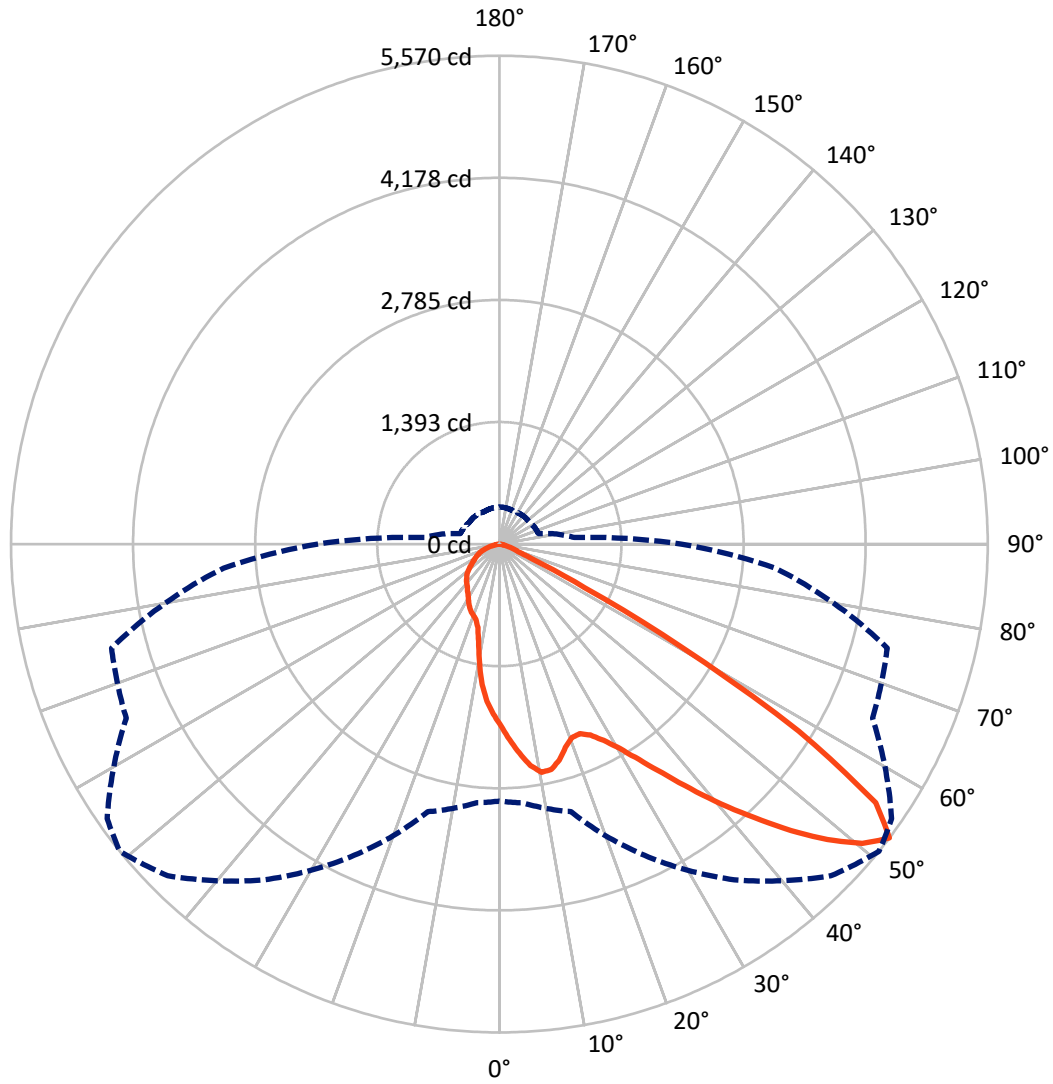
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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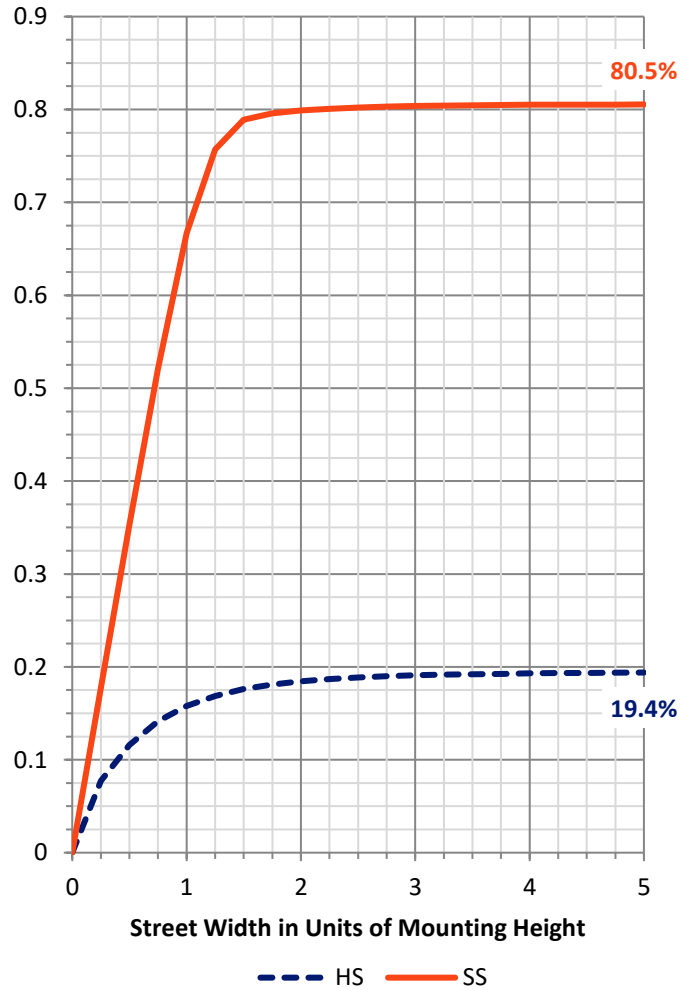
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1356.1	0.0	1356.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5603.8	0.0	5603.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	6959.9	0.0	6959.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	2.8
10°-20°	502.5	7.2
20°-30°	817.0	11.7
30°-40°	1294.7	18.6
40°-50°	1952.7	28.1
50°-60°	1689.2	24.3
60°-70°	383.0	5.5
70°-80°	112.9	1.6
80°-90°	14.5	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°	6959.9	100.0
0°-180°	6959.9	100.0

Coefficient of Utilization



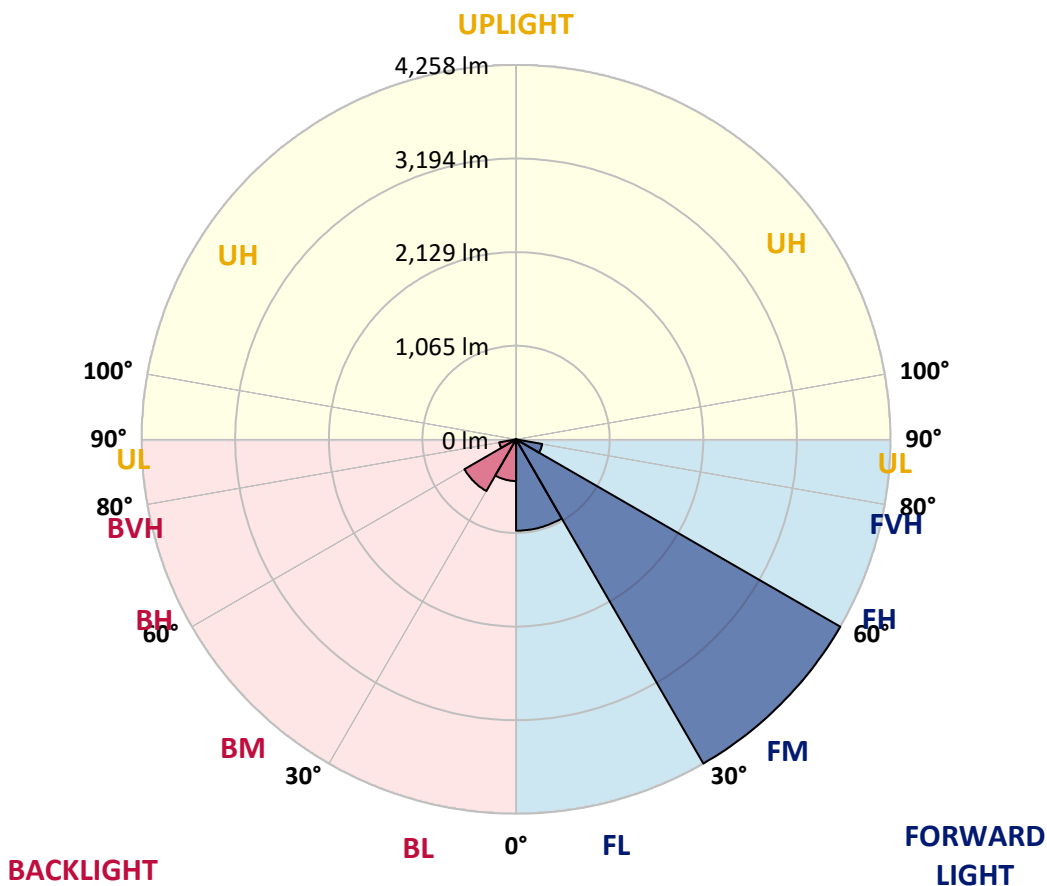
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1038.8	14.9			
FM (30°-60°)	4258.2	61.2			
FH (60°-80°)	301.4	4.3			G0/660
FVH (80°-90°)	5.5	0.1			G0/10
BL (0°-30°)	474.0	6.8	B1/500		
BM (30°-60°)	678.5	9.7	B1/1000		
BH (60°-80°)	194.5	2.8	B1/500		G1/500
BVH (80°-90°)	9.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	2072.3	2072.3	2072.3	2072.3	2072.3	2072.3	2072.3	2072.3	2072.3	2072.3	2072.3
2.5°	2309.3	2322.5	2302.2	2294.5	2281.9	2259.9	2234.6	2227.4	2173.0	2137.2	2097.1
5°	2541.4	2548.6	2532.1	2515.6	2484.2	2445.2	2396.2	2385.8	2286.8	2204.9	2119.6
7.5°	2593.1	2590.4	2604.7	2614.0	2610.2	2594.8	2551.3	2531.0	2412.7	2283.0	2157.0
10°	2388.5	2373.1	2425.9	2488.6	2564.0	2650.9	2645.9	2644.3	2541.4	2388.0	2204.9
12.5°	2117.4	2109.7	2152.6	2231.3	2373.7	2566.2	2638.2	2694.3	2657.5	2488.1	2258.2
15°	1962.3	1959.6	1988.7	2045.4	2158.7	2401.7	2555.7	2666.8	2757.0	2595.3	2314.8
17.5°	1934.3	1935.9	1945.8	1978.3	2059.7	2259.9	2438.0	2593.1	2834.6	2713.0	2385.8
20°	2016.2	2027.2	2010.2	2015.1	2059.1	2208.7	2357.7	2518.9	2884.1	2831.3	2462.2
22.5°	2198.3	2194.4	2157.0	2135.0	2135.6	2240.1	2348.9	2484.2	2916.5	2946.2	2531.5
25°	2404.5	2400.1	2355.5	2306.6	2275.8	2325.3	2412.2	2521.1	2945.7	3051.3	2587.1
27.5°	2648.1	2634.4	2584.9	2522.2	2454.0	2475.4	2534.3	2620.6	2990.8	3154.7	2623.9
30°	2884.1	2900.0	2829.1	2754.8	2682.8	2669.6	2703.7	2781.8	3082.6	3275.7	2667.9
32.5°	3197.0	3191.5	3112.9	3016.1	2913.2	2903.3	2930.3	3001.8	3247.6	3442.8	2735.0
35°	3575.9	3577.0	3465.4	3334.5	3188.2	3161.8	3206.9	3276.2	3493.4	3669.4	2841.2
37.5°	3969.7	3968.1	3870.7	3722.2	3522.6	3485.2	3536.9	3588.6	3800.9	3978.0	3006.2
40°	4245.8	4256.8	4211.2	4133.1	3943.9	3852.6	3898.2	3934.0	4135.3	4341.0	3223.4
42.5°	4402.6	4419.1	4429.0	4475.7	4376.2	4278.8	4262.3	4281.0	4433.9	4678.1	3427.5
45°	4436.1	4458.1	4530.2	4703.4	4741.9	4714.4	4660.5	4615.4	4656.6	4917.3	3561.1
47.5°	4288.2	4326.7	4480.7	4783.7	5008.6	5095.0	5035.0	4966.3	4785.3	4978.9	3547.3
50°	3701.9	3747.0	4094.0	4619.8	5046.6	5361.2	5366.7	5264.9	4769.9	4801.3	3374.7
52.5°	2930.8	2961.6	3160.2	3916.4	4674.2	5350.2	5570.2	5461.3	4695.7	4579.1	3158.5
55°	1751.7	1801.2	1986.5	2583.8	3641.4	4741.9	5210.5	5263.3	4659.4	4392.7	3011.1
57.5°	591.2	615.4	792.5	1141.2	2146.0	3472.0	4025.8	4240.3	4229.9	4107.8	2723.5
60°	281.6	287.1	322.8	432.8	859.1	1814.4	2383.0	2630.5	2856.0	2878.6	1694.5
62.5°	214.5	217.8	235.9	259.6	345.4	764.5	1092.3	1281.4	1368.9	1174.7	617.1
65°	179.3	182.0	195.8	210.6	234.8	331.1	419.1	483.4	435.6	339.3	294.2
67.5°	149.6	151.8	162.2	178.2	194.7	221.6	232.6	239.2	250.8	281.6	270.6
70°	117.1	119.3	130.3	144.1	160.0	166.6	177.1	183.7	206.8	246.4	245.3
72.5°	90.2	92.9	99.0	107.8	121.0	127.6	139.1	146.8	160.0	191.9	205.1
75°	66.0	67.6	73.1	75.9	77.5	75.9	87.4	96.2	113.8	125.9	129.2
77.5°	26.9	30.2	29.1	29.1	34.6	41.8	47.8	53.3	65.4	72.6	73.1
80°	11.0	12.1	14.3	15.9	19.2	24.7	28.6	30.8	36.3	40.7	44.0
82.5°	6.6	7.1	8.2	8.8	11.0	14.3	16.5	18.1	22.5	26.9	28.6
85°	3.3	3.3	3.8	4.4	5.5	6.6	7.7	8.8	11.5	14.3	15.9
87.5°	0.5	0.5	0.5	1.1	1.6	2.2	2.7	3.3	3.8	4.4	5.5
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°	2072.3	2072.3	2072.3	2072.3	2072.3	2072.3	2072.3	2072.3	2072.3	2072.3	2072.3
2.5°	2073.4	2043.7	2009.1	1981.6	1949.7	1926.0	1892.5	1871.6	1851.8	1835.3	1823.2
5°	2075.6	2025.6	1953.5	1889.7	1823.7	1761.0	1696.7	1644.4	1597.7	1558.6	1555.3
7.5°	2088.3	2016.2	1903.5	1791.8	1663.1	1538.8	1414.5	1313.3	1236.3	1196.2	1187.9
10°	2109.7	2015.1	1852.3	1674.1	1454.7	1254.5	1107.1	1030.1	985.6	969.6	964.1
12.5°	2132.3	2012.4	1786.9	1508.0	1203.3	1027.9	947.1	937.7	946.0	947.1	946.5
15°	2159.8	2010.7	1704.4	1313.3	1019.7	922.9	928.4	948.2	967.4	971.8	971.8
17.5°	2193.3	2006.9	1592.2	1123.1	904.7	902.5	931.7	958.1	976.2	979.5	979.5
20°	2228.5	1997.0	1454.1	968.0	858.0	889.9	921.2	941.6	954.2	958.6	959.2
22.5°	2252.7	1970.6	1295.2	853.0	828.8	865.7	888.2	909.1	909.1	898.1	894.8
25°	2257.7	1913.9	1123.1	774.4	794.2	828.3	851.4	839.3	816.7	807.9	807.4
27.5°	2239.5	1831.4	953.1	718.3	752.4	786.5	782.6	765.0	755.1	746.3	749.6
30°	2217.5	1732.4	805.7	672.1	704.0	737.5	724.3	718.3	711.1	701.2	703.4
32.5°	2202.7	1621.9	692.4	636.3	671.5	677.0	686.4	685.8	679.2	660.5	659.4
35°	2207.1	1510.2	616.5	607.2	644.6	642.4	660.0	656.7	611.0	585.2	583.5
37.5°	2242.3	1403.0	572.0	584.1	601.7	615.4	630.8	591.2	575.3	558.8	559.9
40°	2309.3	1303.4	547.8	571.4	575.8	596.2	560.4	559.9	552.7	537.9	537.3
42.5°	2385.2	1219.3	531.3	565.4	559.3	563.2	525.2	529.6	529.1	519.7	517.0
45°	2431.4	1141.8	518.1	542.8	544.5	506.0	494.4	499.4	502.1	497.2	496.6
47.5°	2383.6	1052.7	504.3	508.2	522.5	480.1	465.8	466.4	471.3	471.9	469.7
50°	2249.4	953.1	487.8	478.5	469.1	453.2	440.0	437.2	442.2	447.1	448.8
52.5°	2076.2	858.0	460.3	446.0	424.0	424.0	418.0	409.2	415.8	422.4	424.6
55°	1949.1	787.6	421.3	405.3	381.1	389.4	388.3	380.6	389.4	394.3	396.0
57.5°	1689.0	633.0	370.7	365.7	345.4	355.3	357.5	347.6	343.2	344.3	345.9
60°	1002.6	408.6	334.4	333.8	315.7	327.2	333.8	323.9	310.7	312.4	314.6
62.5°	449.9	312.4	288.7	286.5	286.0	300.8	308.0	298.6	279.9	281.6	283.8
65°	283.2	270.0	250.8	250.8	259.6	272.2	277.7	270.0	248.6	245.8	248.0
67.5°	262.9	251.3	231.5	227.7	232.1	242.5	243.1	228.2	215.6	213.4	213.4
70°	235.9	227.1	207.9	200.2	198.5	198.0	196.3	192.5	184.2	182.0	183.1
72.5°	195.2	189.2	177.1	168.8	164.4	163.9	157.3	154.0	146.8	145.7	145.2
75°	129.2	130.9	130.9	129.8	125.9	124.3	117.1	113.8	105.6	102.3	101.7
77.5°	76.4	78.1	80.3	80.8	80.3	80.3	73.7	69.8	61.6	57.2	56.1
80°	46.7	47.8	48.9	50.6	48.4	46.7	40.7	36.8	33.0	30.2	29.7
82.5°	30.2	31.3	31.9	33.0	31.9	29.7	24.7	22.5	19.8	17.6	17.0
85°	17.0	17.6	18.7	18.7	17.0	15.4	12.6	11.0	9.3	8.2	8.2
87.5°	6.0	6.0	6.0	6.6	5.5	4.9	3.3	2.2	1.6	1.6	1.6
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)