

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: P633105

Luminaire Tested: GWS-SA2E-722-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-722-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10959.2 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

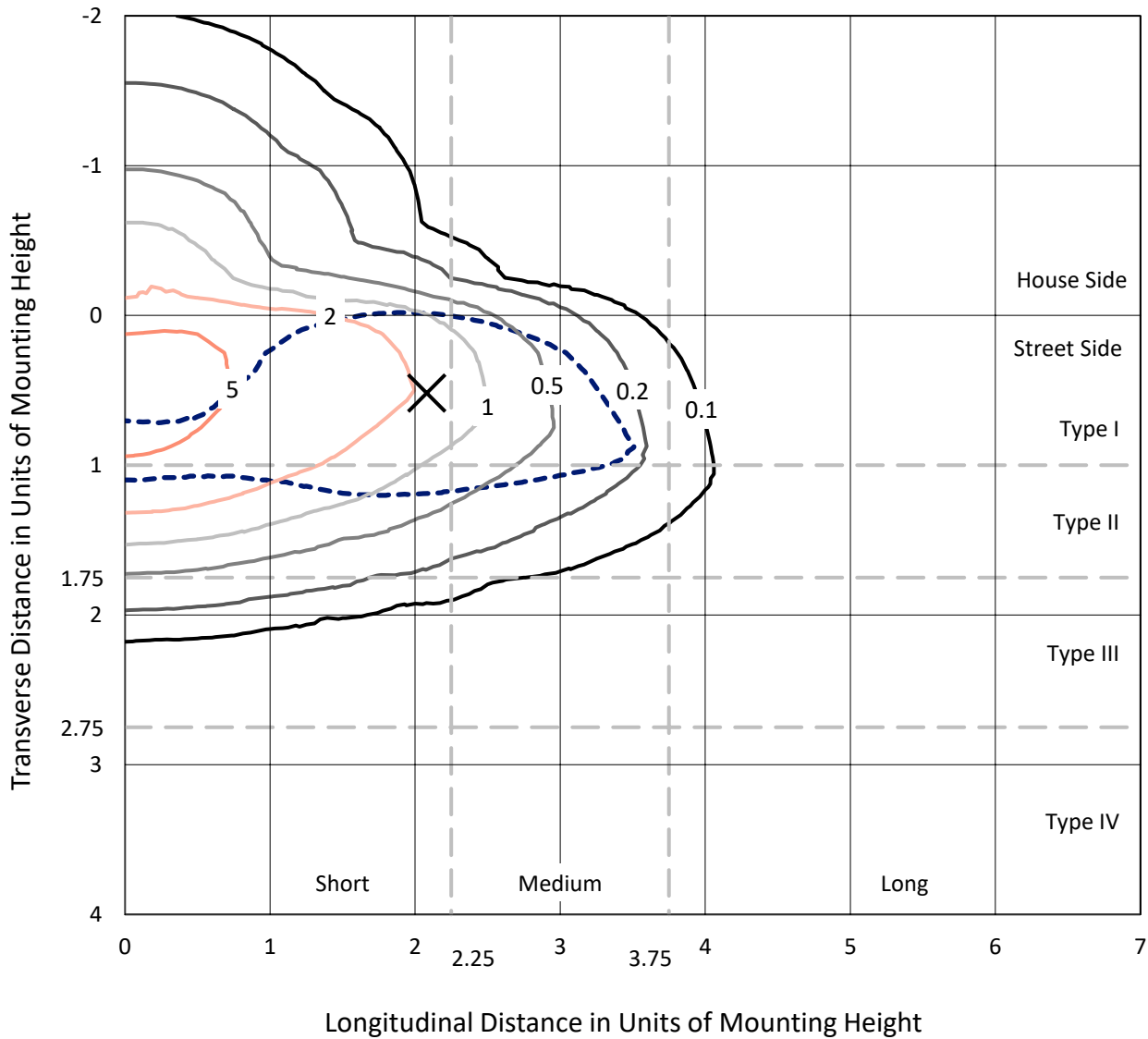
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

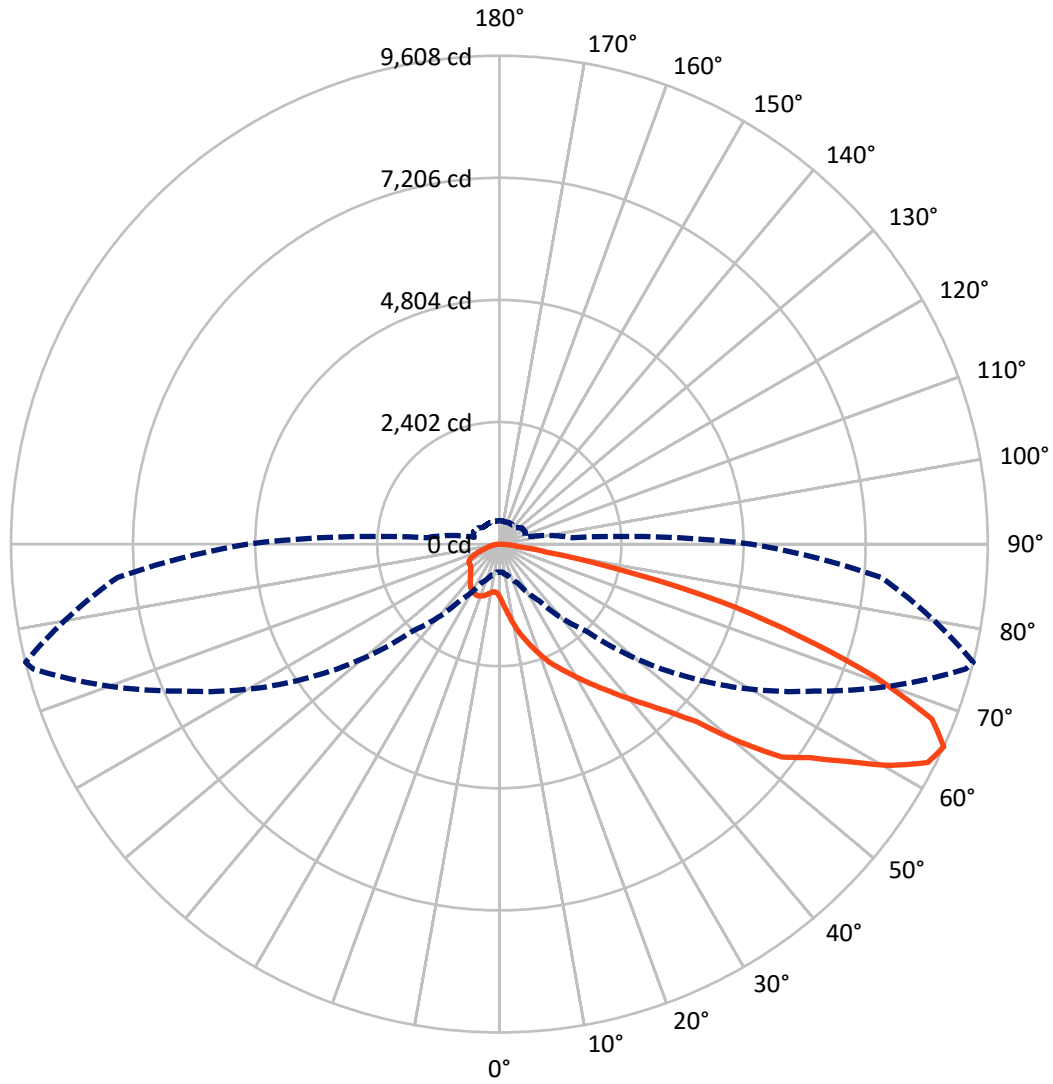
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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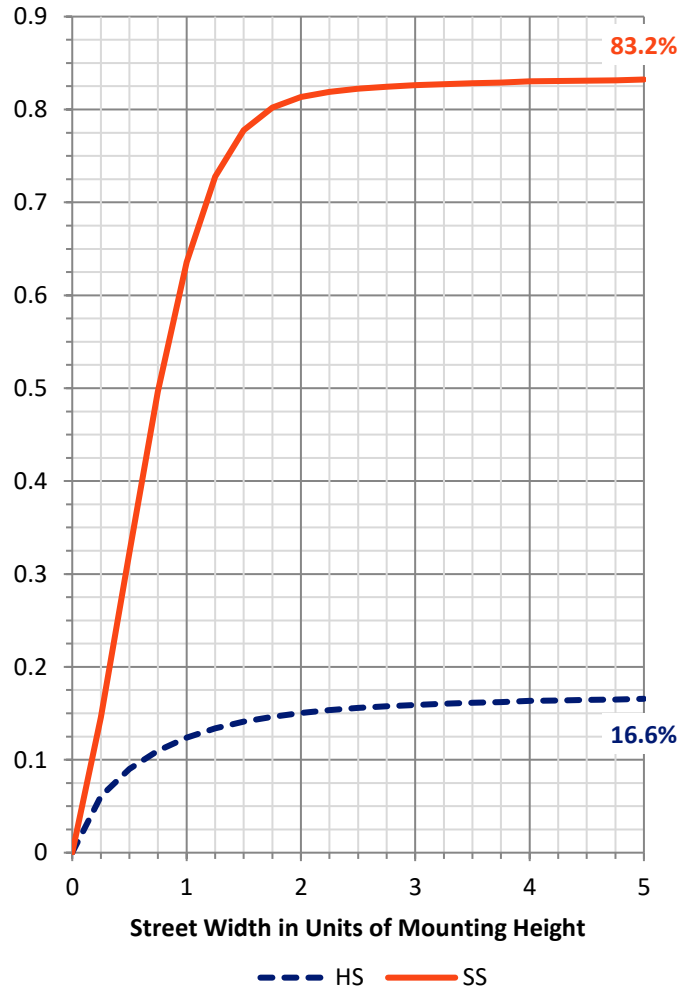
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1831.8	0.0	1831.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	9127.4	0.0	9127.4
	% Fixture	83.3	0.0	83.3
Total	Lumens	10959.2	0.0	10959.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	1.1
10°-20°	469.6	4.3
20°-30°	915.2	8.4
30°-40°	1530.7	14.0
40°-50°	2191.6	20.0
50°-60°	2594.6	23.7
60°-70°	2157.4	19.7
70°-80°	882.9	8.1
80°-90°	94.0	0.9
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°	10959.2	100.0
0°-180°	10959.2	100.0

Coefficient of Utilization



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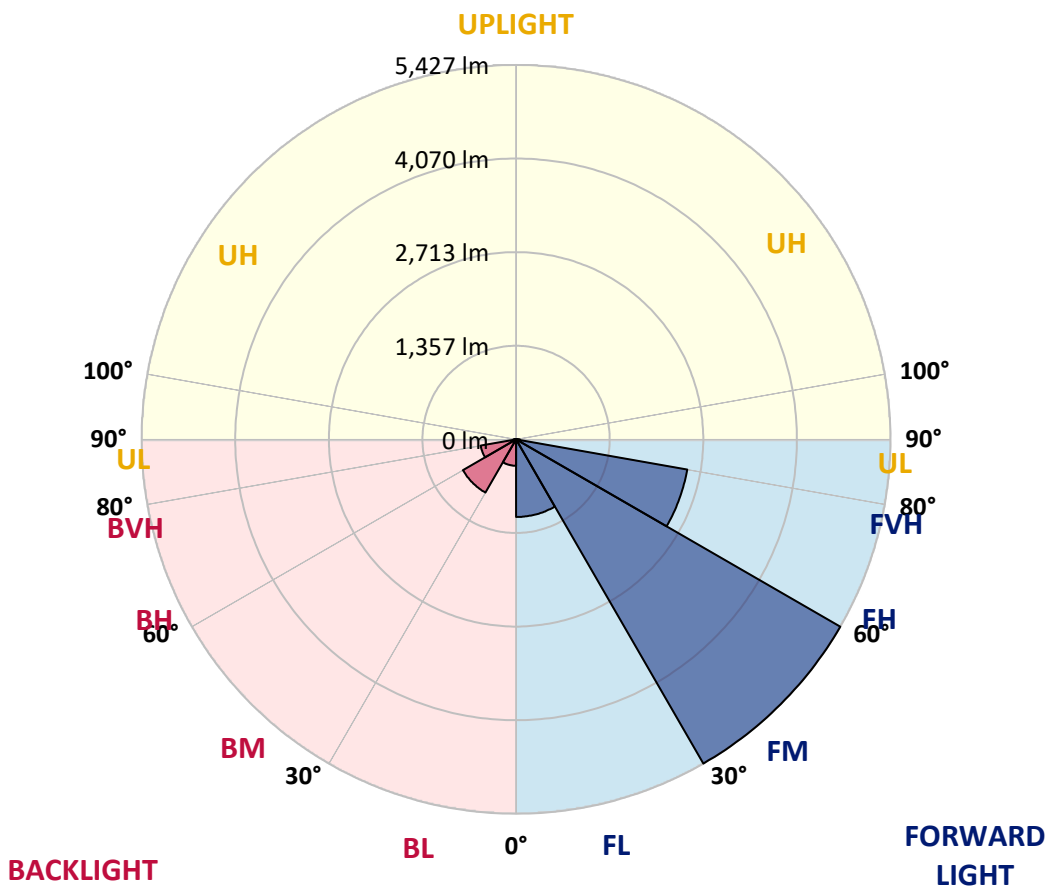
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.9	10.3			
FM (30°-60°)	5426.6	49.5			
FH (60°-80°)	2519.8	23.0			G2/5000
FVH (80°-90°)	56.1	0.5			G1/100
BL (0°-30°)	383.2	3.5	B1/500		
BM (30°-60°)	890.2	8.1	B1/1000		
BH (60°-80°)	520.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	37.9	0.3			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°	55°	65°	75°	76°	85°
0°	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8
2.5°	1454.6	1460.0	1442.3	1436.1	1394.5	1338.3	1291.3	1220.4	1154.9	1144.9	1086.3
5°	1847.5	1824.4	1804.4	1791.3	1733.5	1669.6	1570.2	1436.9	1297.4	1280.5	1154.1
7.5°	2081.0	2077.1	2052.5	2044.8	2000.1	1936.1	1833.7	1668.0	1465.4	1437.7	1245.8
10°	2268.2	2265.9	2253.6	2260.5	2219.7	2157.3	2057.9	1886.8	1649.5	1621.8	1348.3
12.5°	2431.5	2435.4	2433.1	2458.5	2437.7	2389.2	2285.9	2097.9	1833.7	1803.6	1473.1
15°	2551.0	2554.0	2565.6	2621.1	2632.6	2622.6	2517.8	2305.2	2015.5	1972.4	1601.8
17.5°	2584.9	2591.0	2618.8	2708.1	2770.5	2812.1	2734.3	2516.3	2194.2	2147.2	1732.7
20°	2630.3	2637.2	2665.0	2758.2	2849.9	2944.7	2930.8	2730.5	2374.5	2336.0	1865.3
22.5°	2840.6	2835.3	2822.9	2867.6	2933.1	3051.0	3085.7	2936.2	2561.0	2524.0	2011.6
25°	3245.9	3235.9	3157.3	3116.5	3094.9	3166.5	3228.2	3123.4	2742.8	2687.3	2148.0
27.5°	3692.8	3687.4	3587.2	3490.1	3357.6	3326.8	3363.0	3286.7	2919.2	2863.0	2266.7
30°	4115.7	4099.6	3994.8	3873.1	3695.8	3563.3	3510.2	3447.0	3112.6	3054.1	2405.3
32.5°	4494.0	4473.2	4350.0	4215.1	4029.5	3873.1	3714.3	3617.3	3331.4	3263.6	2547.1
35°	4804.5	4783.7	4657.4	4514.1	4309.9	4194.3	3977.1	3802.2	3554.1	3485.5	2714.3
37.5°	5044.9	5025.6	4893.9	4752.9	4574.9	4483.2	4294.5	4010.2	3810.6	3739.0	2891.5
40°	5179.7	5165.9	5060.3	4948.6	4799.1	4719.8	4635.0	4272.9	4098.0	4026.4	3100.3
42.5°	5220.6	5211.3	5137.4	5079.6	4978.6	4918.6	4967.1	4581.9	4404.7	4342.3	3335.3
45°	5118.1	5118.1	5096.5	5125.8	5130.4	5129.7	5299.9	4930.9	4781.4	4712.8	3666.6
47.5°	4856.1	4873.1	4904.7	5048.8	5200.5	5327.7	5689.0	5396.2	5266.0	5209.8	4135.8
50°	4376.9	4423.2	4531.0	4812.2	5135.0	5458.6	6057.3	6084.2	6208.3	6108.9	4826.1
52.5°	3675.0	3668.1	3943.2	4343.8	4836.1	5464.0	6259.9	6691.4	7025.0	6956.4	5339.2
55°	2920.8	2909.2	3165.8	3718.2	4377.7	5257.5	6381.6	6969.5	7478.0	7416.3	5800.7
57.5°	2236.6	2222.0	2450.0	2948.5	3730.5	4819.2	6358.5	7300.8	8101.3	8069.7	6427.9
60°	1539.4	1521.6	1735.1	2171.1	2964.7	4148.9	6102.7	7471.1	8830.9	8841.7	7098.9
62.5°	924.5	914.5	1069.4	1407.6	2132.6	3318.3	5504.1	7367.8	9411.8	9460.4	7530.4
65°	557.8	550.9	641.8	839.8	1352.9	2421.5	4581.1	6840.1	9495.8	9607.5	7540.4
67.5°	406.0	406.8	433.0	511.6	788.9	1564.0	3437.7	5893.9	9058.2	9173.7	7065.0
70°	352.9	354.4	368.3	386.0	476.9	895.3	2235.1	4652.7	7764.6	7854.0	5925.5
72.5°	313.6	313.6	322.8	332.1	372.9	545.5	1197.3	3252.1	6128.2	6152.0	4522.5
75°	275.8	273.5	278.1	282.8	323.6	381.4	582.5	2265.9	4526.4	4470.9	2923.1
77.5°	219.6	217.3	218.0	222.7	259.6	272.7	295.1	1415.3	2551.0	2407.7	1291.3
80°	156.4	154.9	163.3	174.9	191.8	167.2	184.9	684.9	1011.6	941.5	500.8
82.5°	93.2	96.3	109.4	118.6	132.5	104.8	119.4	228.8	358.3	349.0	203.4
85°	13.1	13.9	39.3	45.5	57.0	40.8	63.2	103.2	143.3	153.3	71.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	18.5	40.8	41.6	17.7
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°	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8	1037.8
2.5°	1056.3	1020.1	968.5	925.3	889.1	859.8	835.2	816.7	811.3	803.6	803.6
5°	1094.8	1029.3	936.9	871.4	833.6	811.3	795.9	788.2	784.3	779.7	777.4
7.5°	1148.0	1056.3	931.5	865.2	835.9	822.1	812.1	807.4	804.3	799.7	799.7
10°	1221.2	1096.3	948.4	886.8	863.7	849.8	838.2	830.5	823.6	816.7	815.1
12.5°	1300.5	1148.7	979.2	916.1	891.4	874.5	858.3	846.7	838.2	829.8	827.5
15°	1388.4	1202.7	1012.4	944.6	913.8	890.6	871.4	853.7	842.1	829.8	828.2
17.5°	1474.6	1257.4	1040.1	963.8	924.5	896.0	868.3	845.2	830.5	816.7	812.8
20°	1577.9	1312.1	1059.4	969.2	922.2	884.5	851.3	822.1	805.9	789.7	787.4
22.5°	1672.6	1362.9	1068.6	961.5	904.5	859.8	821.3	789.7	772.0	755.8	752.7
25°	1764.3	1407.6	1064.8	943.0	877.5	825.9	785.9	754.3	737.3	720.4	715.7
27.5°	1852.9	1437.7	1049.4	914.5	843.6	788.2	749.6	721.1	706.5	691.9	685.7
30°	1940.0	1465.4	1025.5	877.5	800.5	748.9	717.3	697.3	682.6	667.2	662.6
32.5°	2027.8	1485.4	989.3	834.4	756.6	714.2	694.9	680.3	664.9	649.5	644.9
35°	2116.4	1493.9	945.3	785.1	719.6	691.9	684.9	668.0	647.2	628.7	622.5
37.5°	2222.0	1501.6	890.6	736.5	687.2	681.1	679.5	654.1	629.5	604.0	597.1
40°	2349.1	1511.6	834.4	692.6	661.0	677.2	671.1	636.4	587.1	562.4	554.7
42.5°	2504.7	1530.1	775.8	652.6	641.8	662.6	655.7	593.2	560.1	546.2	542.4
45°	2733.6	1597.9	717.3	621.0	627.1	641.8	631.0	567.8	554.7	545.5	540.9
47.5°	3141.1	1701.9	666.4	597.1	615.6	623.3	581.7	560.9	550.9	538.5	533.2
50°	3564.9	1747.4	625.6	582.5	602.5	606.3	554.7	551.6	544.7	531.6	526.2
52.5°	3851.5	1741.2	601.0	577.1	591.7	577.1	542.4	541.6	537.0	521.6	515.4
55°	4175.1	1752.0	590.2	578.6	587.1	527.8	527.0	529.3	527.0	510.0	507.0
57.5°	4611.9	1785.1	584.8	584.0	584.0	503.9	512.3	515.4	510.8	503.1	500.8
60°	5031.8	1787.4	574.8	590.2	581.7	489.2	495.4	498.5	493.1	491.5	490.8
62.5°	5189.7	1676.5	552.4	585.5	572.4	473.1	477.7	479.2	473.8	477.7	476.9
65°	4954.8	1440.7	515.4	563.2	543.9	458.4	455.3	459.2	449.9	460.0	460.7
67.5°	4399.3	1144.9	459.2	520.8	503.9	442.2	436.1	436.1	420.7	436.1	435.3
70°	3547.2	809.0	376.7	453.0	460.0	423.0	419.9	402.2	377.5	400.6	398.3
72.5°	2688.9	580.9	296.6	358.3	396.0	396.0	396.8	366.7	338.2	349.0	339.8
75°	1703.5	409.1	237.3	274.3	310.5	347.5	365.2	309.7	284.3	279.7	275.1
77.5°	767.4	268.9	184.9	210.3	220.3	274.3	333.6	266.6	231.9	221.9	218.8
80°	321.3	167.2	131.7	148.7	135.6	230.4	294.3	207.3	170.3	156.4	146.4
82.5°	141.0	99.4	84.0	80.1	84.7	171.0	219.6	137.9	106.3	144.1	145.6
85°	59.3	52.4	43.1	39.3	34.7	65.5	103.2	53.9	66.3	37.8	30.8
87.5°	13.9	15.4	11.6	7.7	4.6	0.8	0.0	0.0	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)