

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P458633

Luminaire Tested: **GALN-SA2A-735-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8651 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

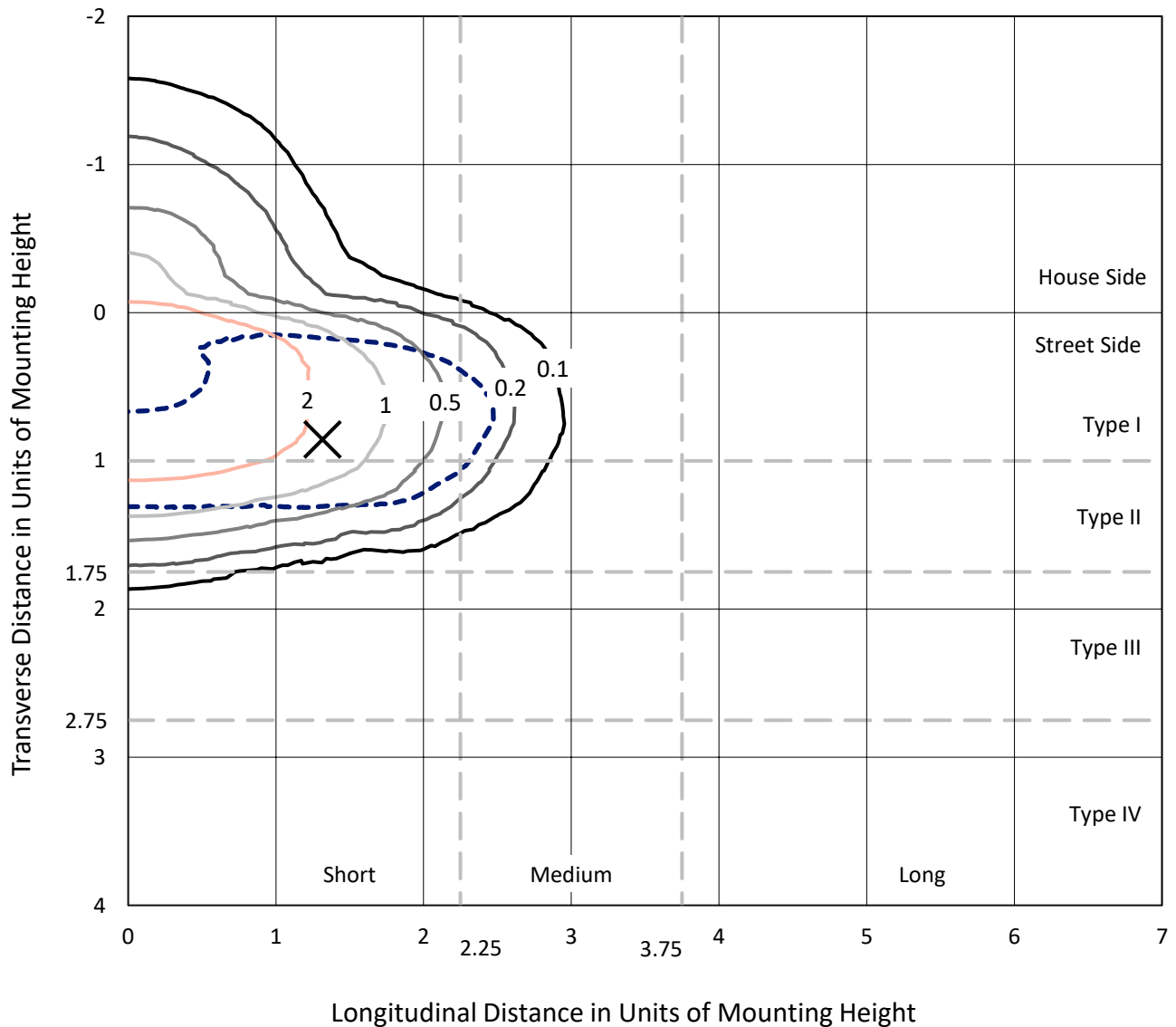
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

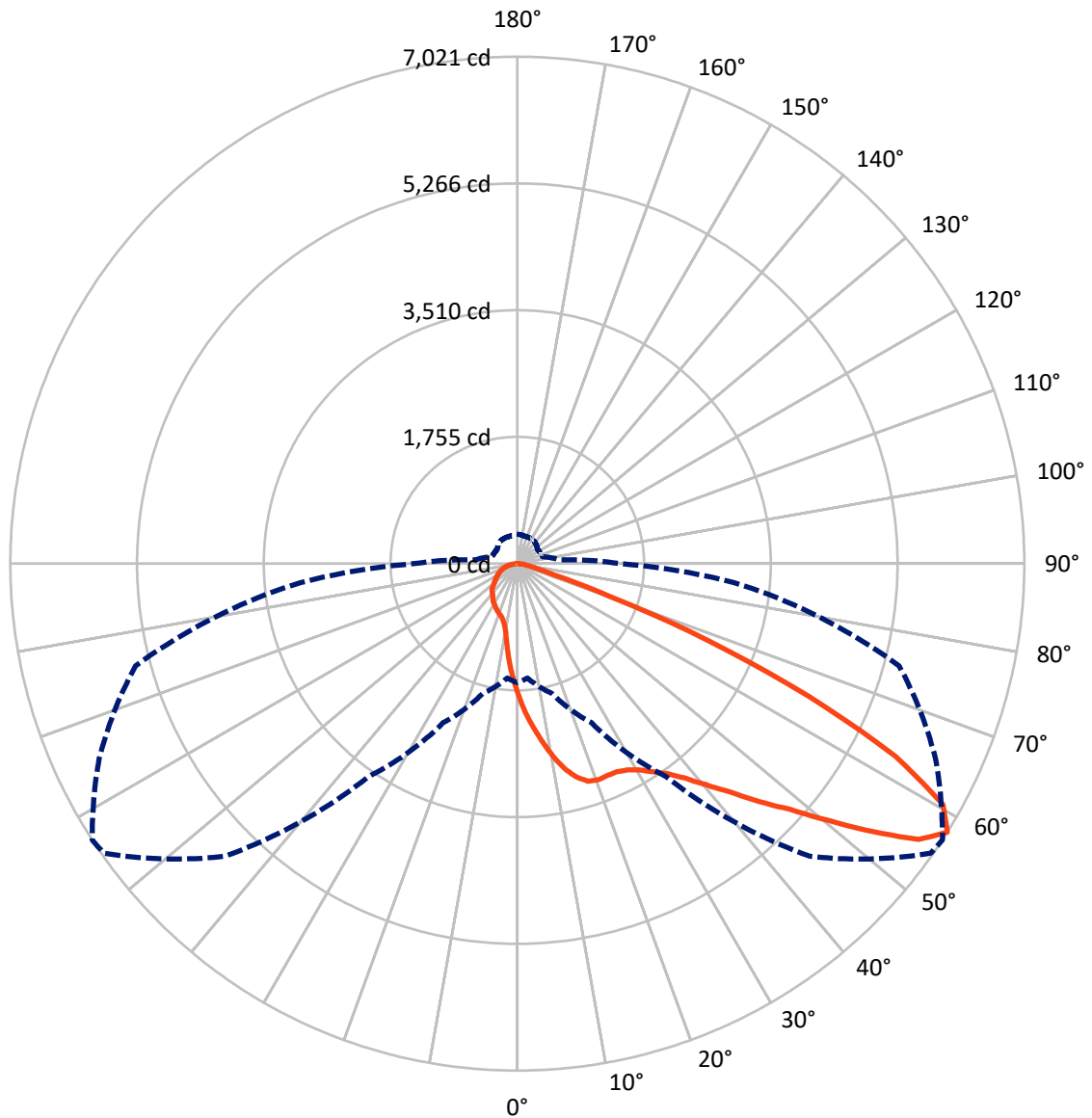
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1315.6	0.0	1315.6
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	7335.4	0.0	7335.4
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	8651.0	0.0	8651.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.7	2.0
10°-20°	514.8	6.0
20°-30°	854.8	9.9
30°-40°	1287.6	14.9
40°-50°	1933.2	22.3
50°-60°	2166.9	25.0
60°-70°	1268.2	14.7
70°-80°	375.1	4.3
80°-90°	75.8	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°	8651.0	100.0
0°-180°	8651.0	100.0

**Coefficient of Utilization**



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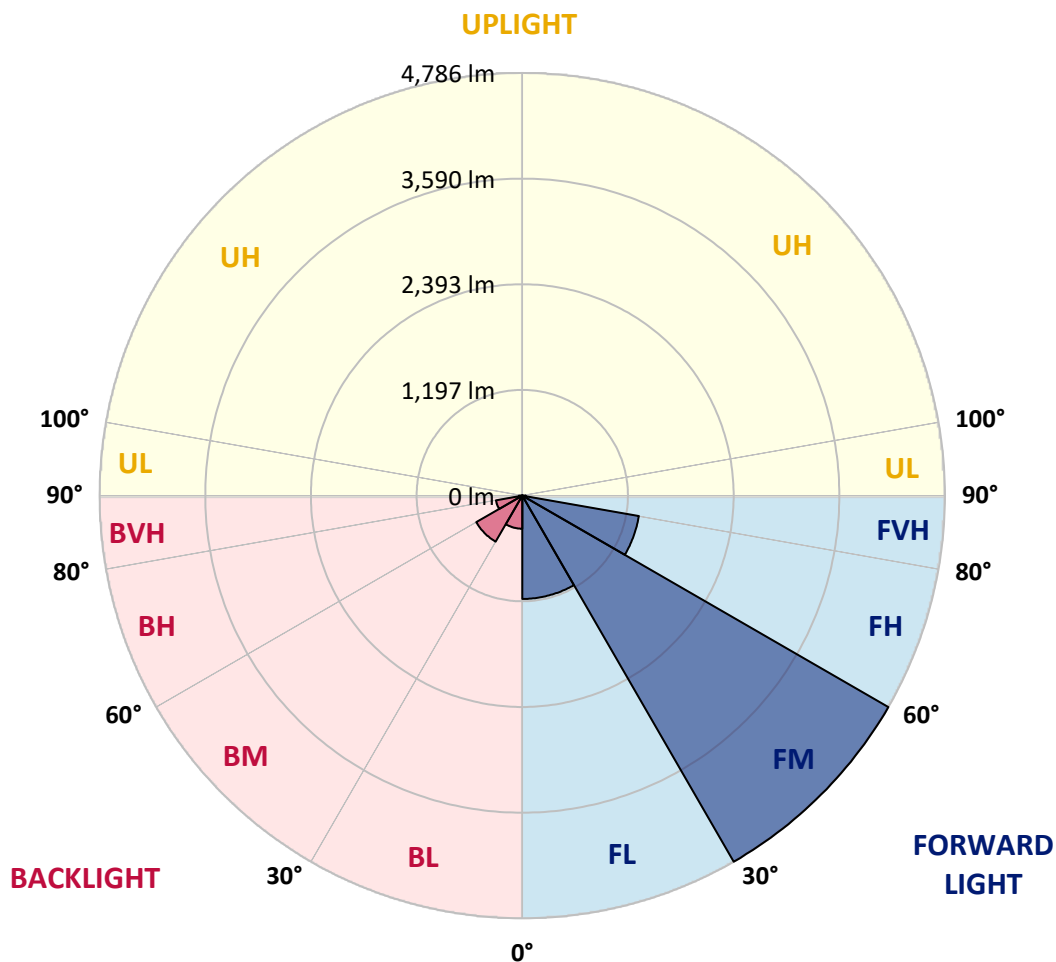
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1169.4	13.5			
FM	(30°-60°)	4786.1	55.3			
FH	(60°-80°)	1340.6	15.5			G1/1800
FVH	(80°-90°)	39.3	0.5			G1/100
BL	(0°-30°)	374.9	4.3	B1/500		
BM	(30°-60°)	601.5	7.0	B1/1000		
BH	(60°-80°)	302.7	3.5	B1/500		G1/500
BVH	(80°-90°)	36.5	0.4			G1/100
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°	55°	57°	65°	75°	85°
0°	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5
2.5°	2258.3	2233.7	2214.3	2197.3	2175.0	2114.9	2054.7	2053.8	2005.9	1932.1	1856.3
5°	2626.3	2593.1	2597.4	2544.4	2491.3	2404.2	2276.8	2270.2	2168.4	2030.1	1889.5
7.5°	2865.9	2866.4	2853.1	2822.8	2765.5	2666.5	2522.1	2489.4	2347.8	2138.1	1927.3
10°	2853.6	2866.4	2888.6	2914.7	2932.2	2883.4	2751.8	2712.0	2527.8	2268.8	1969.5
12.5°	2689.8	2709.6	2741.4	2806.7	2912.3	2992.8	2947.8	2915.6	2736.2	2399.0	2015.9
15°	2587.5	2599.3	2616.8	2660.9	2774.5	2967.2	3083.7	3066.7	2932.7	2546.3	2068.0
17.5°	2556.2	2568.0	2573.7	2600.7	2681.7	2879.2	3137.3	3167.6	3106.9	2681.7	2120.5
20°	2587.5	2593.1	2593.1	2609.2	2672.7	2827.6	3134.9	3196.0	3250.0	2844.1	2169.8
22.5°	2669.4	2671.8	2668.4	2674.1	2721.5	2841.8	3112.6	3188.4	3365.5	2981.9	2208.2
25°	2802.5	2806.2	2784.5	2771.2	2805.8	2904.3	3124.9	3194.6	3456.0	3113.6	2233.7
27.5°	2953.5	2958.3	2931.7	2901.0	2917.1	2981.5	3173.2	3235.8	3523.7	3243.3	2249.8
30°	3138.7	3140.6	3096.1	3059.1	3048.7	3096.5	3255.6	3313.9	3608.0	3396.3	2274.0
32.5°	3328.1	3342.3	3285.0	3232.9	3215.4	3230.1	3377.3	3433.7	3708.4	3560.6	2312.8
35°	3585.7	3588.1	3519.4	3456.0	3398.2	3417.1	3533.1	3573.9	3847.1	3750.5	2367.7
37.5°	3907.2	3929.0	3834.3	3715.9	3644.9	3617.4	3721.6	3766.1	4041.7	3983.5	2450.6
40°	4264.3	4272.3	4191.4	4117.5	3987.7	3908.2	3980.2	4028.5	4281.8	4261.5	2546.7
42.5°	4488.8	4506.3	4512.4	4504.9	4407.3	4273.8	4301.2	4324.0	4565.9	4522.4	2645.2
45°	4564.5	4590.6	4678.7	4865.2	4875.6	4744.0	4680.1	4701.9	4875.6	4785.7	2739.5
47.5°	4439.0	4483.5	4646.0	5028.6	5315.1	5325.0	5132.3	5084.5	5157.9	5004.0	2807.7
50°	4114.7	4124.1	4372.7	4926.8	5521.1	5880.5	5681.2	5592.1	5425.9	5165.5	2854.5
52.5°	3612.7	3623.6	3831.9	4453.7	5394.2	6268.8	6323.3	6164.2	5698.2	5290.9	2885.3
55°	2681.7	2744.7	2973.9	3574.8	4792.8	6232.4	6833.8	6743.3	6027.3	5390.4	2933.6
57.5°	1648.9	1591.1	1862.9	2432.1	3604.6	5731.3	6991.5	7020.8	6389.6	5473.7	3014.6
60°	758.6	770.0	882.2	1254.4	2197.3	4483.5	6585.2	6770.8	6589.9	5470.9	3035.0
62.5°	522.8	512.4	484.0	550.7	1002.0	2835.6	5562.3	5876.7	6188.3	5300.9	2954.0
65°	467.4	457.0	402.0	383.6	460.3	1236.0	4043.6	4440.5	5210.4	4871.9	2752.3
67.5°	436.6	422.4	365.6	329.6	328.6	492.0	2384.3	2862.1	3864.6	4118.9	2384.8
70°	404.4	393.0	336.7	296.9	279.9	309.2	1048.0	1371.9	2509.3	2968.2	1857.7
72.5°	372.2	358.9	308.3	265.7	243.4	231.6	401.6	522.3	1417.8	1779.6	1138.9
75°	325.3	318.7	275.6	240.6	216.4	187.1	254.8	290.8	678.1	817.3	571.6
77.5°	284.6	277.5	244.8	210.3	192.7	152.0	180.9	197.5	286.0	331.5	258.1
80°	208.4	215.5	206.5	185.6	171.9	119.3	121.7	135.4	170.0	188.0	157.7
82.5°	132.1	145.4	159.1	143.0	130.2	94.2	84.3	89.5	116.0	123.1	70.1
85°	55.4	56.4	92.3	87.1	74.3	55.9	50.7	53.5	62.0	64.9	32.7
87.5°	21.3	20.8	32.7	30.3	23.2	16.1	16.1	18.0	24.6	22.7	10.4
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°	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5	1817.5
2.5°	1823.6	1790.0	1723.2	1640.4	1579.8	1511.6	1451.4	1408.3	1392.2	1384.7	1370.4
5°	1822.2	1755.9	1617.6	1472.7	1356.2	1236.9	1136.0	1070.7	1065.0	1021.4	1017.2
7.5°	1822.7	1721.3	1501.1	1288.0	1110.5	988.3	904.9	883.2	857.1	850.5	853.8
10°	1824.1	1677.3	1376.1	1105.3	933.4	853.3	822.1	813.6	814.5	817.3	817.8
12.5°	1826.0	1634.7	1246.4	966.5	833.9	800.8	797.5	805.0	813.1	819.2	820.7
15°	1828.4	1585.9	1119.9	854.8	784.2	781.4	792.2	805.0	816.4	825.4	826.8
17.5°	1825.5	1529.1	1013.9	786.1	756.7	770.5	788.5	804.6	815.0	823.5	824.4
20°	1818.9	1465.6	911.6	737.8	739.7	761.9	781.4	796.5	807.9	812.1	815.4
22.5°	1793.3	1389.9	822.6	700.4	719.3	750.1	773.3	782.3	769.5	760.5	762.9
25°	1749.8	1291.4	739.7	670.1	700.9	733.5	757.2	735.4	725.0	721.2	723.1
27.5°	1695.3	1183.4	677.2	638.3	677.2	715.1	708.4	704.6	699.9	693.7	695.2
30°	1636.6	1077.8	624.1	613.7	651.6	673.4	676.2	682.4	677.2	667.7	671.5
32.5°	1582.1	978.3	583.9	592.9	633.6	630.3	651.6	658.7	634.6	602.8	604.2
35°	1535.7	886.0	553.6	572.5	602.8	604.2	625.6	600.9	574.9	559.7	560.7
37.5°	1500.7	814.0	533.7	555.0	563.5	581.5	570.2	557.4	554.1	543.6	544.1
40°	1479.8	751.0	520.9	541.3	539.8	552.2	515.7	528.5	533.2	529.9	530.4
42.5°	1459.0	706.5	507.6	522.3	521.8	497.7	489.6	500.5	512.9	514.3	513.3
45°	1442.4	672.0	493.9	493.4	502.9	465.0	462.7	469.3	486.8	495.3	494.9
47.5°	1424.0	643.1	473.1	459.8	462.7	444.7	440.9	443.7	465.0	478.8	482.5
50°	1400.8	614.2	447.0	429.0	417.2	425.7	426.7	427.1	448.4	464.1	467.4
52.5°	1382.3	592.4	417.2	403.9	389.7	408.7	415.8	416.7	429.5	442.3	444.7
55°	1393.2	580.1	387.8	378.4	365.6	391.2	404.9	406.8	409.6	419.1	420.5
57.5°	1425.9	582.9	364.2	351.8	342.4	370.3	393.5	394.9	393.0	404.4	406.3
60°	1435.8	581.5	346.6	322.5	316.8	348.1	376.9	379.8	379.3	395.9	399.2
62.5°	1394.1	563.5	329.1	297.9	294.1	325.3	353.7	365.1	367.5	391.2	395.4
65°	1296.1	526.6	305.9	271.8	271.8	301.2	331.5	347.1	353.7	385.5	390.2
67.5°	1166.8	483.0	282.2	249.6	248.6	278.0	307.8	323.9	334.3	377.4	380.3
70°	968.4	424.3	252.9	225.4	225.4	251.9	278.9	298.3	313.5	362.3	362.3
72.5°	663.4	352.8	217.4	197.9	198.4	223.0	250.5	272.3	290.3	332.0	332.9
75°	419.6	275.6	178.5	168.6	170.5	193.7	222.1	244.8	280.8	328.2	329.6
77.5°	223.0	193.7	142.1	139.7	142.1	163.4	195.1	226.4	281.8	284.6	279.9
80°	144.4	137.3	112.2	107.5	108.4	131.6	173.8	215.0	226.4	229.2	218.8
82.5°	78.6	87.1	79.6	74.8	74.8	102.8	148.2	171.0	162.4	135.0	128.8
85°	33.6	40.7	41.2	36.0	34.6	63.5	99.4	93.3	86.7	82.9	81.9
87.5°	9.5	13.3	13.3	9.9	7.6	17.5	19.9	5.7	0.0	0.5	0.9
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)