

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: P458778

Luminaire Tested: **GALN-SA3B-735-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458778  
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-SA3B-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15979 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

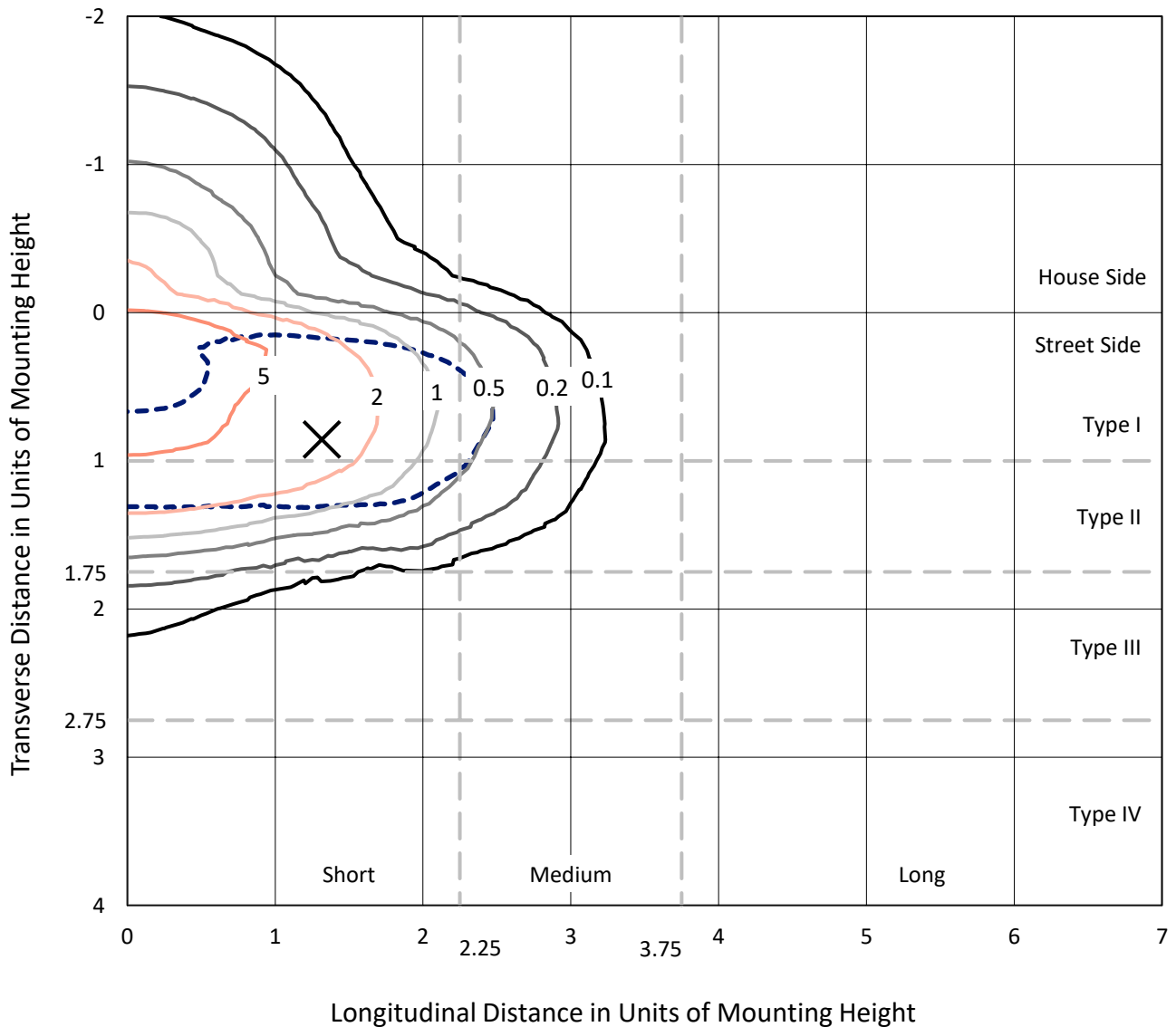
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

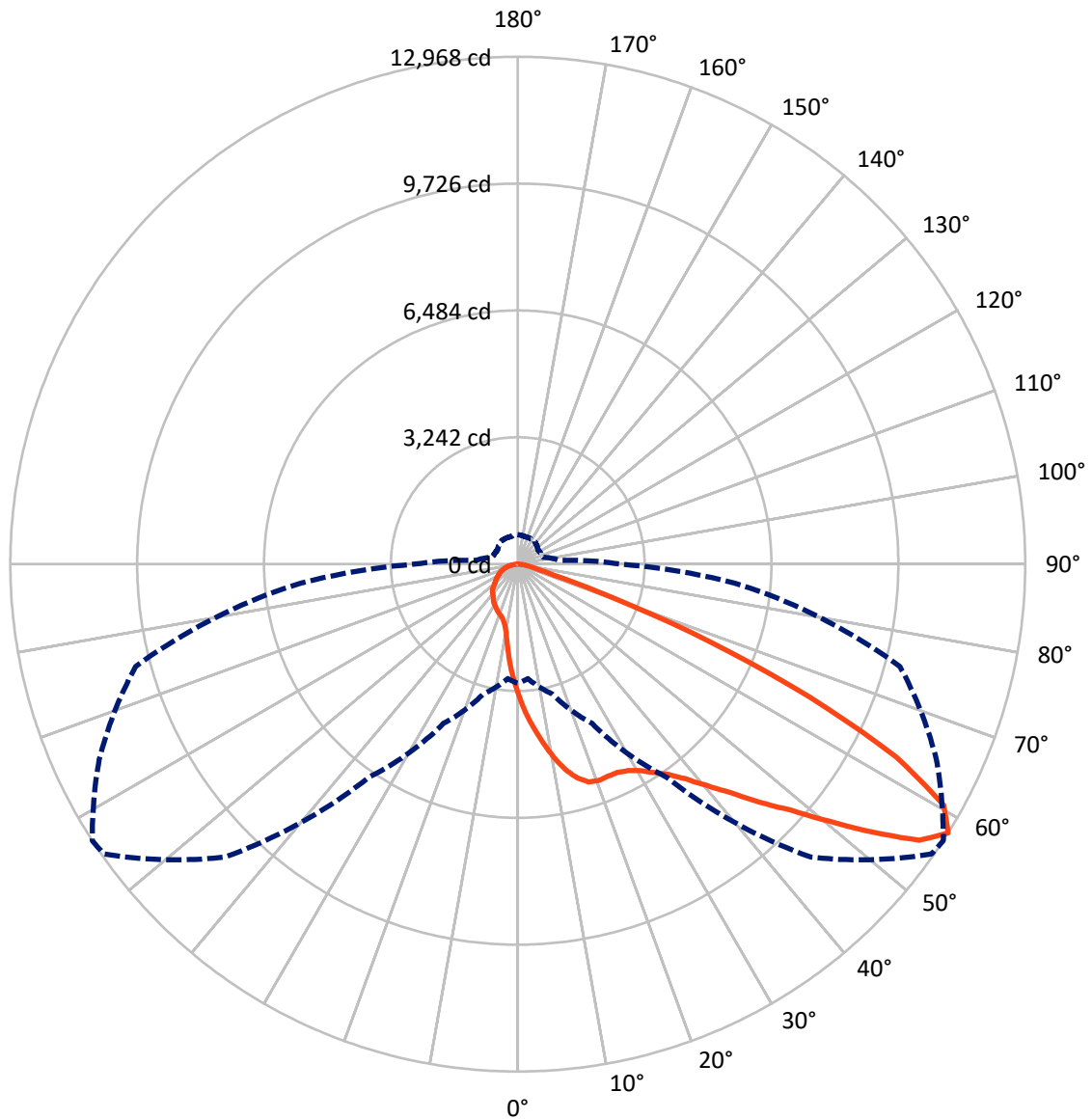
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	2430.0	0.0	2430.0
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	13549.0	0.0	13549.0
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	15979.0	0.0	15979.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.6	2.0
10°-20°	950.8	6.0
20°-30°	1578.9	9.9
30°-40°	2378.3	14.9
40°-50°	3570.7	22.3
50°-60°	4002.4	25.0
60°-70°	2342.4	14.7
70°-80°	692.9	4.3
80°-90°	140.0	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°	15979.0	100.0
0°-180°	15979.0	100.0

**Coefficient of Utilization**



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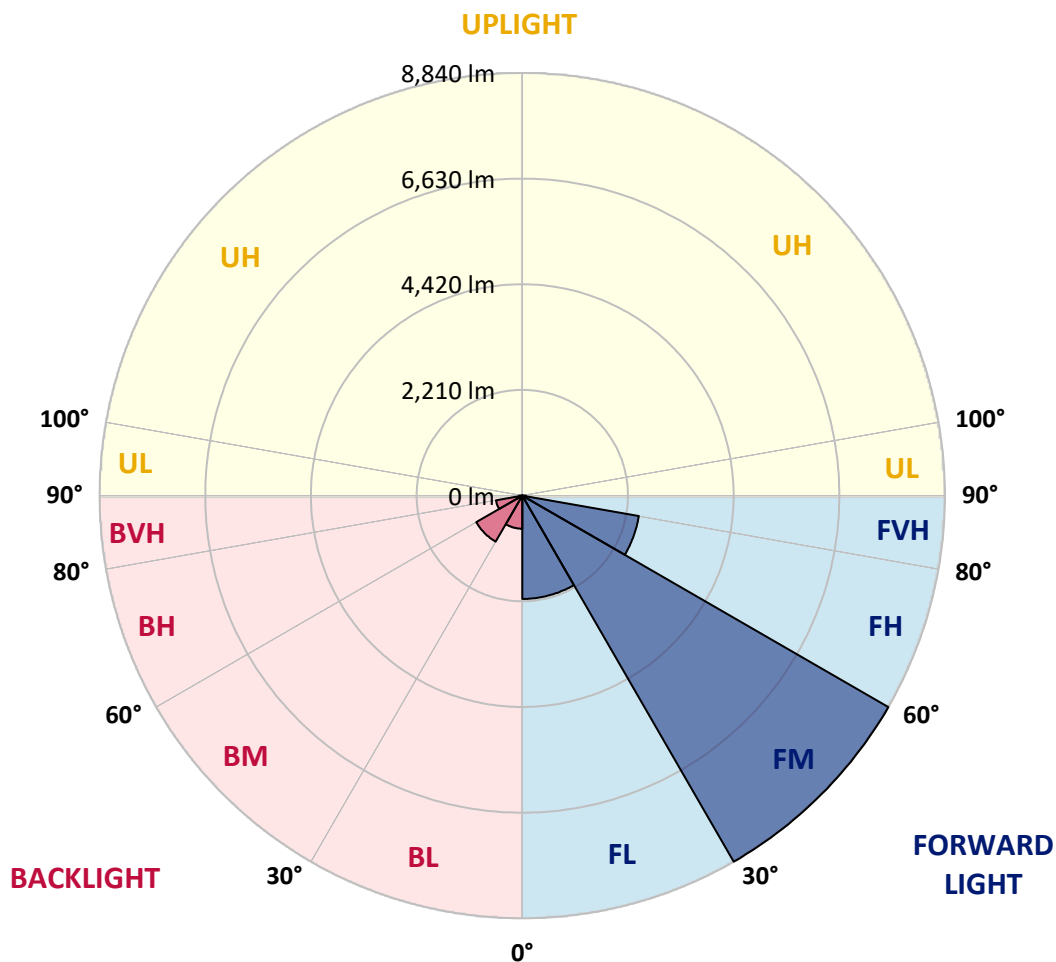
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2160.0	13.5			
FM	(30°-60°)	8840.3	55.3			
FH	(60°-80°)	2476.1	15.5			G2/5000
FVH	(80°-90°)	72.7	0.5			G1/100
BL	(0°-30°)	692.4	4.3	B2/1000		
BM	(30°-60°)	1111.1	7.0	B2/2500		
BH	(60°-80°)	559.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	67.4	0.4			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°	57°	65°	75°	85°
0°	3357.0	3357.0	3357.0	3357.0	3357.0	3357.0	3357.0	3357.0	3357.0	3357.0	3357.0
2.5°	4171.3	4125.8	4090.0	4058.5	4017.4	3906.3	3795.2	3793.5	3705.1	3568.7	3428.7
5°	4851.0	4789.7	4797.6	4699.6	4601.7	4440.7	4205.4	4193.2	4005.1	3749.7	3490.0
7.5°	5293.5	5294.4	5269.9	5213.9	5108.1	4925.3	4658.5	4598.2	4336.6	3949.2	3559.9
10°	5270.8	5294.4	5335.5	5383.6	5416.0	5325.9	5082.7	5009.3	4669.0	4190.6	3637.8
12.5°	4968.2	5004.9	5063.5	5184.2	5379.3	5527.9	5444.9	5385.4	5053.9	4431.1	3723.5
15°	4779.2	4801.1	4833.5	4914.8	5124.7	5480.7	5695.9	5664.4	5416.9	4703.1	3819.7
17.5°	4721.5	4743.4	4753.9	4803.7	4953.3	5318.0	5794.7	5850.7	5738.7	4953.3	3916.8
20°	4779.2	4789.7	4789.7	4819.5	4936.7	5222.7	5790.4	5903.2	6002.9	5253.3	4007.8
22.5°	4930.5	4934.9	4928.8	4939.3	5026.8	5248.9	5749.2	5889.2	6216.3	5507.8	4078.6
25°	5176.3	5183.3	5143.1	5118.6	5182.5	5364.4	5772.0	5900.6	6383.4	5751.0	4125.8
27.5°	5455.4	5464.1	5415.1	5358.3	5388.0	5507.0	5861.2	5976.7	6508.5	5990.7	4155.6
30°	5797.3	5800.8	5718.6	5650.4	5631.2	5719.5	6013.4	6121.0	6664.2	6273.2	4200.2
32.5°	6147.2	6173.5	6067.6	5971.4	5939.0	5966.2	6238.2	6342.3	6849.6	6576.7	4271.9
35°	6623.0	6627.4	6500.6	6383.4	6276.7	6311.7	6526.0	6601.2	7105.9	6927.4	4373.4
37.5°	7216.9	7257.2	7082.2	6863.6	6732.4	6681.6	6874.1	6956.3	7465.4	7357.8	4526.4
40°	7876.5	7891.3	7741.8	7605.3	7365.6	7218.7	7351.6	7440.9	7908.8	7871.2	4704.0
42.5°	8291.1	8323.4	8334.8	8320.8	8140.6	7893.9	7944.7	7986.7	8433.6	8353.2	4885.9
45°	8431.0	8479.1	8641.8	8986.4	9005.7	8762.5	8644.4	8684.7	9005.7	8839.5	5060.0
47.5°	8199.2	8281.4	8581.4	9288.2	9817.4	9835.7	9479.7	9391.4	9527.0	9242.7	5186.0
50°	7600.1	7617.5	8076.8	9100.1	10197.8	10861.7	10493.5	10329.0	10022.0	9541.0	5272.5
52.5°	6672.9	6693.0	7077.9	8226.3	9963.4	11579.0	11679.5	11385.7	10525.0	9772.8	5329.4
55°	4953.3	5069.6	5493.0	6602.9	8852.6	11511.6	12622.4	12455.4	11132.9	9956.4	5418.6
57.5°	3045.6	2938.9	3441.0	4492.3	6658.0	10586.2	12913.7	12967.9	11802.0	10110.4	5568.2
60°	1401.2	1422.2	1629.5	2317.0	4058.5	8281.4	12163.2	12506.1	12172.0	10105.1	5605.8
62.5°	965.6	946.4	893.9	1017.2	1850.8	5237.6	10273.9	10854.7	11430.3	9791.1	5456.2
65°	863.3	844.1	742.6	708.5	850.2	2282.9	7468.9	8201.8	9624.1	8998.7	5083.6
67.5°	806.5	780.2	675.2	608.8	607.0	908.8	4404.0	5286.5	7138.2	7607.9	4404.9
70°	747.0	726.0	621.9	548.4	516.9	571.2	1935.7	2533.9	4634.9	5482.5	3431.4
72.5°	687.5	663.0	569.4	490.7	449.6	427.7	741.7	964.8	2618.8	3287.0	2103.6
75°	600.9	588.7	509.1	444.3	399.7	345.5	470.6	537.1	1252.5	1509.7	1055.7
77.5°	525.7	512.6	452.2	388.4	356.0	280.8	334.1	364.7	528.3	612.3	476.7
80°	384.9	398.0	381.4	342.9	317.5	220.4	224.8	250.2	314.0	347.2	291.3
82.5°	244.0	268.5	293.9	264.2	240.5	174.1	155.7	165.3	214.3	227.4	129.5
85°	102.3	104.1	170.6	160.9	137.3	103.2	93.6	98.8	114.6	119.8	60.4
87.5°	39.4	38.5	60.4	56.0	42.9	29.7	29.7	33.2	45.5	42.0	19.2
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°	3357.0	3357.0	3357.0	3357.0	3357.0	3357.0	3357.0	3357.0	3357.0	3357.0	3357.0
2.5°	3368.4	3306.3	3182.9	3029.9	2917.9	2792.0	2680.9	2601.3	2571.5	2557.6	2531.3
5°	3365.8	3243.3	2987.9	2720.2	2505.1	2284.7	2098.3	1977.6	1967.1	1886.7	1878.8
7.5°	3366.6	3179.4	2772.7	2379.1	2051.1	1825.4	1671.5	1631.3	1583.2	1570.9	1577.0
10°	3369.3	3098.1	2541.8	2041.5	1724.0	1576.2	1518.4	1502.7	1504.4	1509.7	1510.6
12.5°	3372.7	3019.4	2302.1	1785.2	1540.3	1479.1	1473.0	1486.9	1501.8	1513.2	1515.8
15°	3377.1	2929.3	2068.6	1578.8	1448.5	1443.2	1463.3	1486.9	1507.9	1524.6	1527.2
17.5°	3371.9	2824.3	1872.7	1452.0	1397.7	1423.1	1456.3	1486.1	1505.3	1521.1	1522.8
20°	3359.6	2707.1	1683.8	1362.7	1366.2	1407.4	1443.2	1471.2	1492.2	1500.1	1506.2
22.5°	3312.4	2567.2	1519.3	1293.6	1328.6	1385.5	1428.3	1445.0	1421.3	1404.7	1409.1
25°	3231.9	2385.2	1366.2	1237.7	1294.5	1354.9	1398.6	1358.4	1339.1	1332.1	1335.6
27.5°	3131.3	2185.8	1250.8	1179.1	1250.8	1320.8	1308.5	1301.5	1292.8	1281.4	1284.0
30°	3022.9	1990.8	1152.8	1133.6	1203.6	1243.8	1249.0	1260.4	1250.8	1233.3	1240.3
32.5°	2922.3	1807.1	1078.5	1095.1	1170.3	1164.2	1203.6	1216.7	1172.1	1113.5	1116.1
35°	2836.6	1636.5	1022.5	1057.5	1113.5	1116.1	1155.4	1110.0	1061.9	1033.9	1035.6
37.5°	2771.8	1503.6	985.8	1025.1	1040.9	1074.1	1053.1	1029.5	1023.4	1004.1	1005.0
40°	2733.4	1387.2	962.1	999.8	997.1	1019.9	952.5	976.1	984.9	978.8	979.6
42.5°	2694.9	1305.0	937.7	964.8	963.9	919.3	904.4	924.5	947.3	949.9	948.1
45°	2664.3	1241.2	912.3	911.4	928.9	858.9	854.6	866.8	899.2	914.9	914.0
47.5°	2630.1	1187.8	873.8	849.3	854.6	821.3	814.3	819.6	858.9	884.3	891.3
50°	2587.3	1134.5	825.7	792.5	770.6	786.3	788.1	789.0	828.3	857.2	863.3
52.5°	2553.2	1094.2	770.6	746.1	719.9	754.8	768.0	769.7	793.3	816.9	821.3
55°	2573.3	1071.5	716.4	698.9	675.2	722.5	747.8	751.3	756.6	774.1	776.7
57.5°	2633.6	1076.7	672.6	649.9	632.4	684.0	726.9	729.5	726.0	747.0	750.5
60°	2652.0	1074.1	640.3	595.7	585.2	642.9	696.2	701.5	700.6	731.2	737.4
62.5°	2575.0	1040.9	607.9	550.2	543.2	600.9	653.4	674.4	678.7	722.5	730.4
65°	2394.0	972.6	565.0	502.1	502.1	556.3	612.3	641.1	653.4	712.0	720.7
67.5°	2155.2	892.2	521.3	461.0	459.2	513.4	568.5	598.3	617.5	697.1	702.4
70°	1788.7	783.7	467.1	416.3	416.3	465.3	515.2	551.0	579.0	669.1	669.1
72.5°	1225.4	651.6	401.5	365.6	366.5	412.0	462.7	502.9	536.2	613.1	614.9
75°	775.0	509.1	329.8	311.4	314.9	357.7	410.2	452.2	518.7	606.2	608.8
77.5°	412.0	357.7	262.4	258.0	262.4	301.8	360.4	418.1	520.4	525.7	516.9
80°	266.8	253.7	207.3	198.6	200.3	243.2	321.0	397.1	418.1	423.3	404.1
82.5°	145.2	160.9	146.9	138.2	138.2	189.8	273.8	315.8	300.0	249.3	237.9
85°	62.1	75.2	76.1	66.5	63.9	117.2	183.7	172.3	160.1	153.1	151.3
87.5°	17.5	24.5	24.5	18.4	14.0	32.4	36.7	10.5	0.0	0.9	1.7
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)