

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: P458807

Luminaire Tested: **GALN-SA3C-735-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458807  
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-SA3C-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19742 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

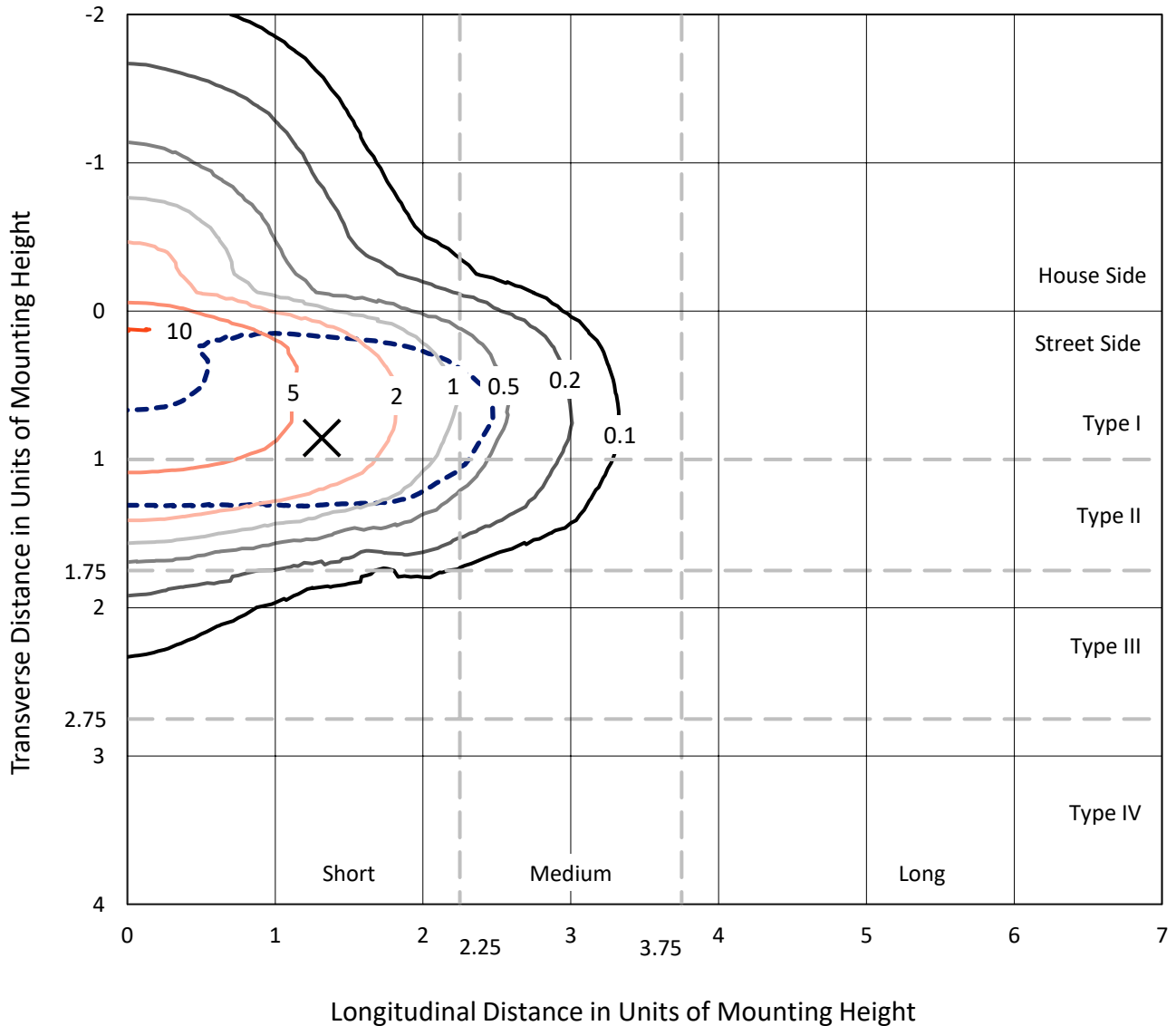
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

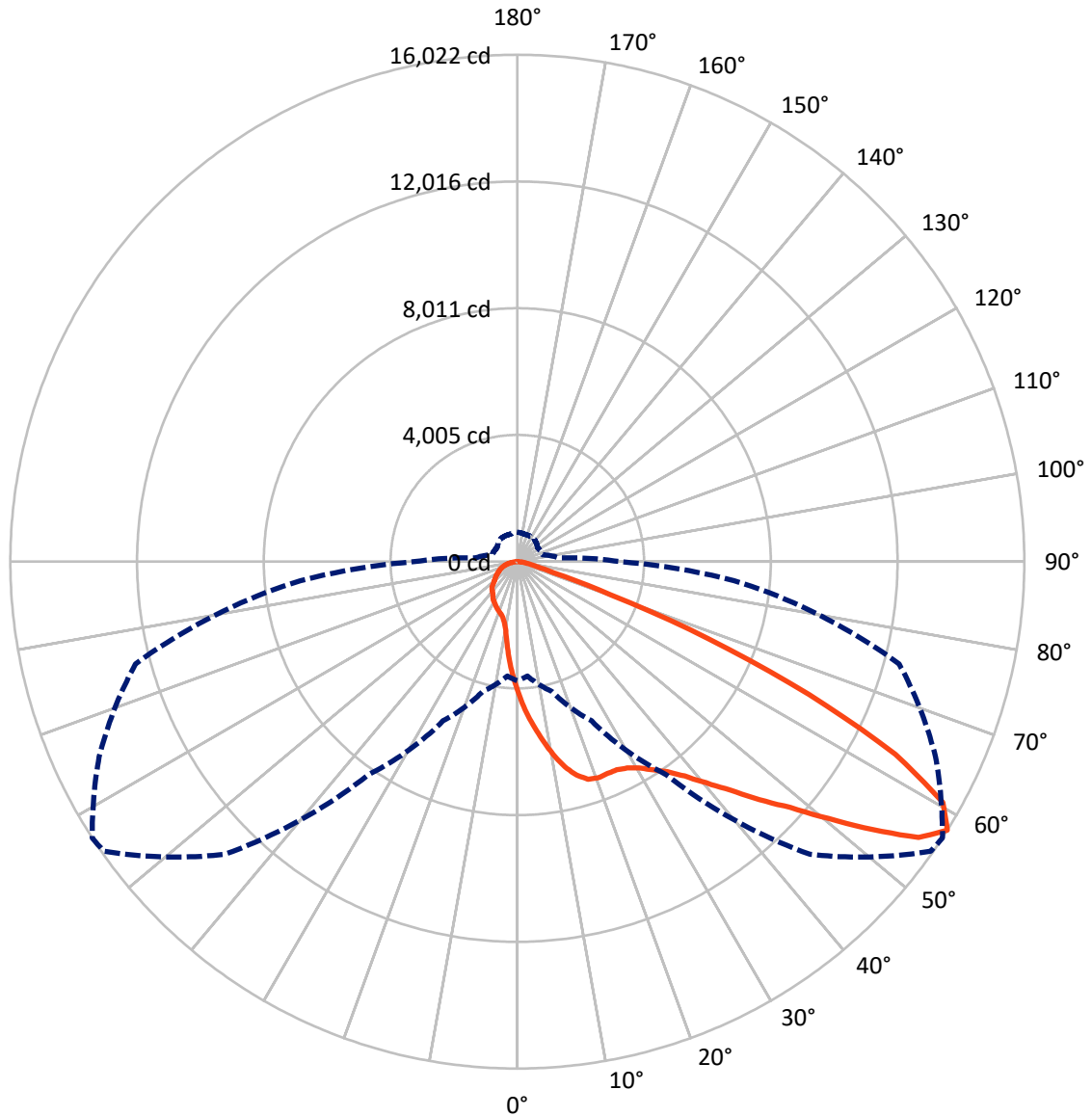
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	3002.2	0.0	3002.2
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	16739.8	0.0	16739.8
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	19742.0	0.0	19742.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.6	2.0
10°-20°	1174.8	6.0
20°-30°	1950.7	9.9
30°-40°	2938.3	14.9
40°-50°	4411.6	22.3
50°-60°	4944.9	25.0
60°-70°	2894.0	14.7
70°-80°	856.0	4.3
80°-90°	173.0	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°	19742.0	100.0
0°-180°	19742.0	100.0

**Coefficient of Utilization**



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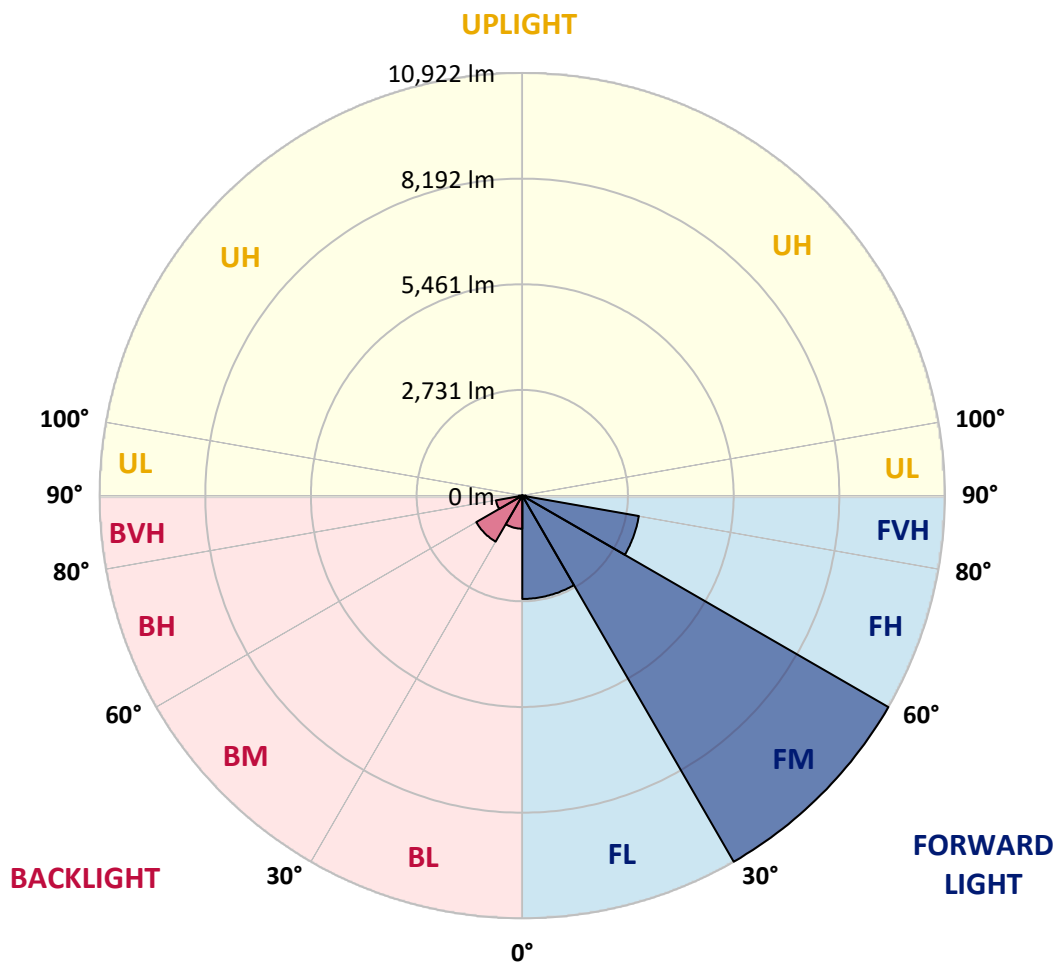
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2668.7	13.5			
FM	(30°-60°)	10922.1	55.3			
FH	(60°-80°)	3059.2	15.5			G2/5000
FVH	(80°-90°)	89.8	0.5			G1/100
BL	(0°-30°)	855.4	4.3	B2/1000		
BM	(30°-60°)	1372.7	7.0	B2/2500		
BH	(60°-80°)	690.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	83.3	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°	4147.6	4147.6	4147.6	4147.6	4147.6	4147.6	4147.6	4147.6	4147.6	4147.6	4147.6
2.5°	5153.7	5097.5	5053.2	5014.3	4963.5	4826.2	4689.0	4686.8	4577.7	4409.1	4236.2
5°	5993.3	5917.7	5927.4	5806.4	5685.3	5486.5	5195.8	5180.7	4948.3	4632.8	4311.8
7.5°	6540.1	6541.2	6511.0	6441.8	6311.0	6085.2	5755.6	5681.0	5357.9	4879.2	4398.3
10°	6512.0	6541.2	6592.0	6651.5	6691.4	6580.1	6279.7	6188.9	5768.6	5177.4	4494.5
12.5°	6138.1	6183.5	6255.9	6405.1	6646.1	6829.8	6727.1	6653.6	6244.0	5474.6	4600.4
15°	5904.7	5931.7	5971.7	6072.2	6331.6	6771.4	7037.2	6998.3	6692.5	5810.7	4719.2
17.5°	5833.4	5860.4	5873.4	5935.0	6119.8	6570.4	7159.4	7228.5	7090.2	6119.8	4839.2
20°	5904.7	5917.7	5917.7	5954.4	6099.2	6452.6	7154.0	7293.4	7416.6	6490.4	4951.6
22.5°	6091.7	6097.1	6089.5	6102.5	6210.5	6485.0	7103.2	7276.1	7680.2	6804.9	5039.1
25°	6395.3	6404.0	6354.3	6324.0	6402.9	6627.7	7131.3	7290.1	7886.6	7105.3	5097.5
27.5°	6740.1	6750.9	6690.4	6620.1	6656.9	6803.8	7241.5	7384.1	8041.2	7401.4	5134.2
30°	7162.6	7166.9	7065.3	6981.1	6957.3	7066.4	7429.5	7562.4	8233.5	7750.5	5189.3
32.5°	7594.9	7627.3	7496.5	7377.7	7337.7	7371.2	7707.3	7835.9	8462.6	8125.5	5277.9
35°	8182.7	8188.2	8031.5	7886.6	7754.8	7798.0	8062.8	8155.7	8779.3	8558.8	5403.3
37.5°	8916.5	8966.2	8750.1	8479.9	8317.8	8255.2	8492.9	8594.5	9223.4	9090.5	5592.4
40°	9731.3	9749.7	9564.9	9396.3	9100.2	8918.7	9082.9	9193.2	9771.3	9724.8	5811.8
42.5°	10243.6	10283.5	10297.6	10280.3	10057.7	9752.9	9815.6	9867.5	10419.7	10320.3	6036.6
45°	10416.5	10475.9	10676.9	11102.7	11126.5	10826.0	10680.2	10729.9	11126.5	10921.1	6251.6
47.5°	10130.1	10231.7	10602.3	11475.5	12129.3	12152.0	11712.2	11603.0	11770.5	11419.3	6407.2
50°	9389.8	9411.5	9978.8	11243.2	12599.4	13419.6	12964.7	12761.5	12382.2	11787.8	6514.2
52.5°	8244.3	8269.2	8744.7	10163.6	12309.8	14305.8	14430.0	14066.9	13003.6	12074.2	6584.5
55°	6119.8	6263.5	6786.5	8157.9	10937.3	14222.5	15595.0	15388.6	13754.6	12301.1	6694.7
57.5°	3762.9	3631.0	4251.3	5550.3	8226.0	13079.2	15954.8	16021.8	14581.3	12491.3	6879.5
60°	1731.2	1757.2	2013.3	2862.7	5014.3	10231.7	15027.6	15451.3	15038.4	12484.9	6925.9
62.5°	1193.0	1169.3	1104.4	1256.8	2286.7	6471.0	12693.4	13411.0	14122.0	12096.9	6741.1
65°	1066.6	1042.8	917.5	875.3	1050.4	2820.5	9227.7	10133.3	11890.5	11117.8	6280.8
67.5°	996.4	963.9	834.3	752.1	750.0	1122.8	5441.1	6531.5	8819.3	9399.6	5442.2
70°	922.9	896.9	768.3	677.6	638.7	705.7	2391.5	3130.7	5726.4	6773.6	4239.4
72.5°	849.4	819.1	703.5	606.2	555.5	528.4	916.4	1192.0	3235.5	4061.1	2599.0
75°	742.4	727.3	628.9	549.0	493.9	426.9	581.4	663.5	1547.5	1865.2	1304.4
77.5°	649.5	633.3	558.7	479.8	439.8	346.9	412.8	450.6	652.7	756.5	589.0
80°	475.5	491.7	471.2	423.6	392.3	272.3	277.7	309.1	388.0	429.0	359.9
82.5°	301.5	331.8	363.1	326.4	297.2	215.1	192.4	204.2	264.8	281.0	159.9
85°	126.4	128.6	210.7	198.8	169.7	127.5	115.6	122.1	141.6	148.1	74.6
87.5°	48.6	47.5	74.6	69.2	53.0	36.7	36.7	41.1	56.2	51.9	23.8
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°	4147.6	4147.6	4147.6	4147.6	4147.6	4147.6	4147.6	4147.6	4147.6	4147.6	4147.6
2.5°	4161.6	4084.9	3932.5	3743.4	3605.1	3449.5	3312.2	3213.9	3177.1	3159.8	3127.4
5°	4158.4	4007.1	3691.5	3360.8	3095.0	2822.7	2592.5	2443.4	2430.4	2331.0	2321.3
7.5°	4159.5	3928.2	3425.7	2939.4	2534.1	2255.3	2065.1	2015.4	1956.0	1940.9	1948.4
10°	4162.7	3827.7	3140.4	2522.3	2130.0	1947.3	1876.0	1856.6	1858.7	1865.2	1866.3
12.5°	4167.0	3730.4	2844.3	2205.6	1903.0	1827.4	1819.8	1837.1	1855.5	1869.5	1872.8
15°	4172.4	3619.1	2555.8	1950.6	1789.6	1783.1	1807.9	1837.1	1863.1	1883.6	1886.8
17.5°	4165.9	3489.4	2313.7	1793.9	1726.9	1758.2	1799.3	1836.0	1859.8	1879.3	1881.4
20°	4150.8	3344.6	2080.3	1683.7	1688.0	1738.8	1783.1	1817.7	1843.6	1853.3	1860.9
22.5°	4092.5	3171.7	1877.1	1598.3	1641.5	1711.8	1764.7	1785.2	1756.1	1735.5	1740.9
25°	3993.0	2947.0	1688.0	1529.1	1599.4	1673.9	1728.0	1678.3	1654.5	1645.8	1650.2
27.5°	3868.8	2700.6	1545.3	1456.7	1545.3	1631.8	1616.7	1608.0	1597.2	1583.2	1586.4
30°	3734.8	2459.6	1424.3	1400.5	1487.0	1536.7	1543.2	1557.2	1545.3	1523.7	1532.4
32.5°	3610.5	2232.6	1332.5	1353.0	1445.9	1438.4	1487.0	1503.2	1448.1	1375.7	1378.9
35°	3504.6	2021.9	1263.3	1306.5	1375.7	1378.9	1427.6	1371.4	1311.9	1277.3	1279.5
37.5°	3424.6	1857.7	1217.9	1266.5	1286.0	1327.0	1301.1	1271.9	1264.4	1240.6	1241.7
40°	3377.1	1713.9	1188.7	1235.2	1232.0	1260.0	1176.8	1206.0	1216.8	1209.3	1210.3
42.5°	3329.5	1612.3	1158.5	1192.0	1190.9	1135.8	1117.4	1142.3	1170.4	1173.6	1171.4
45°	3291.7	1533.5	1127.1	1126.0	1147.7	1061.2	1055.8	1070.9	1110.9	1130.4	1129.3
47.5°	3249.5	1467.5	1079.6	1049.3	1055.8	1014.7	1006.1	1012.6	1061.2	1092.5	1101.2
50°	3196.6	1401.6	1020.1	979.1	952.1	971.5	973.7	974.8	1023.4	1059.0	1066.6
52.5°	3154.4	1351.9	952.1	921.8	889.4	932.6	948.8	951.0	980.2	1009.3	1014.7
55°	3179.3	1323.8	885.1	863.4	834.3	892.6	924.0	928.3	934.8	956.4	959.6
57.5°	3253.9	1330.3	831.0	802.9	781.3	845.1	898.0	901.3	896.9	922.9	927.2
60°	3276.6	1327.0	791.0	735.9	723.0	794.3	860.2	866.7	865.6	903.4	911.0
62.5°	3181.5	1286.0	751.1	679.7	671.1	742.4	807.3	833.2	838.6	892.6	902.4
65°	2957.8	1201.7	698.1	620.3	620.3	687.3	756.5	792.1	807.3	879.7	890.5
67.5°	2662.7	1102.3	644.1	569.5	567.3	634.3	702.4	739.2	762.9	861.3	867.8
70°	2209.9	968.3	577.1	514.4	514.4	574.9	636.5	680.8	715.4	826.7	826.7
72.5°	1514.0	805.1	496.0	451.7	452.8	509.0	571.7	621.4	662.4	757.5	759.7
75°	957.5	628.9	407.4	384.7	389.0	442.0	506.8	558.7	640.8	748.9	752.1
77.5°	509.0	442.0	324.2	318.8	324.2	372.8	445.2	516.6	643.0	649.5	638.7
80°	329.6	313.4	256.1	245.3	247.5	300.4	396.6	490.6	516.6	523.0	499.3
82.5°	179.4	198.8	181.6	170.7	170.7	234.5	338.2	390.1	370.7	308.0	293.9
85°	76.7	92.9	94.0	82.1	78.9	144.8	226.9	212.9	197.8	189.1	187.0
87.5°	21.6	30.3	30.3	22.7	17.3	40.0	45.4	13.0	0.0	1.1	2.2
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)