

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: P529840

Luminaire Tested: **GALN-SA5A-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529840  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-735-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19251 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

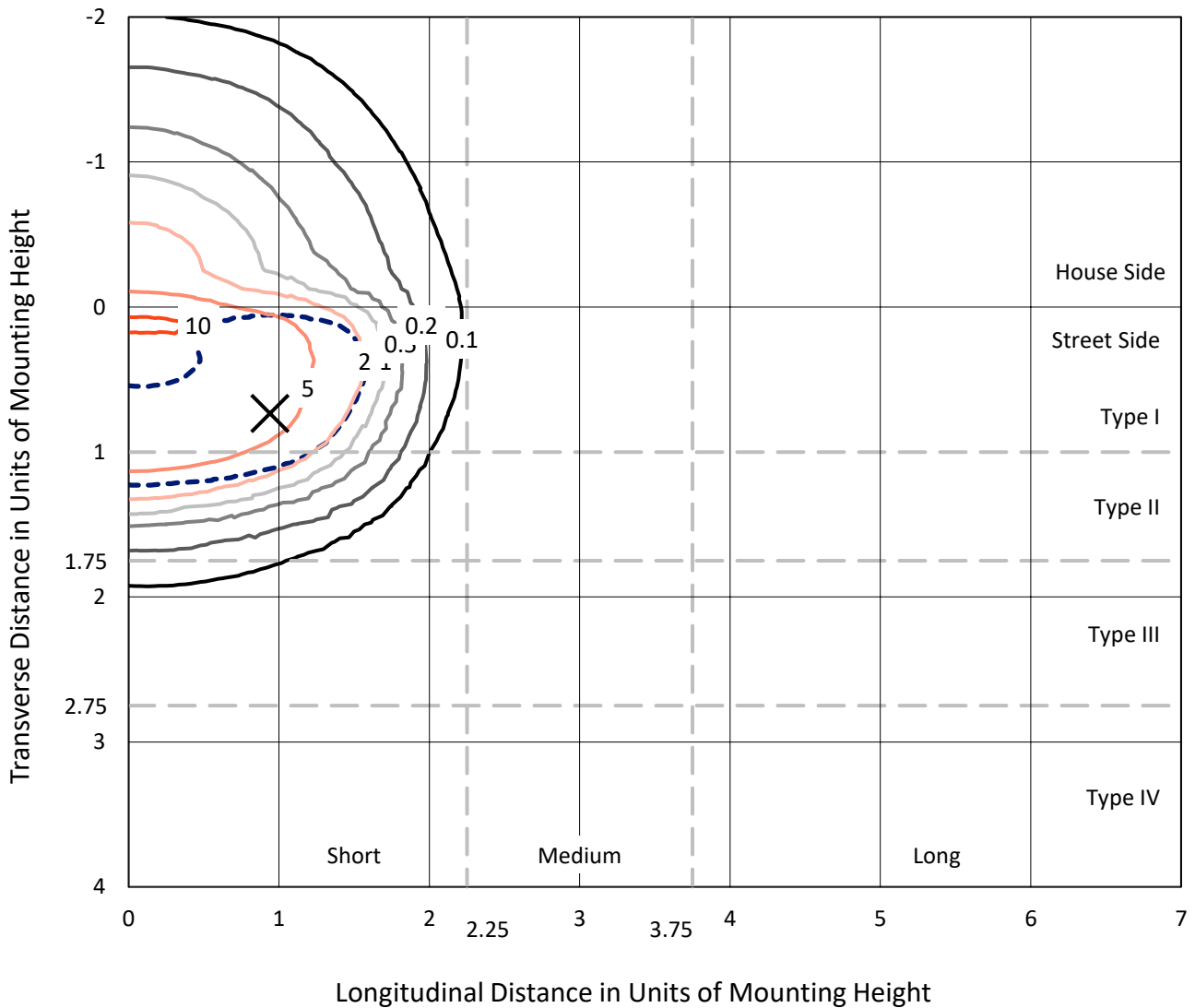
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

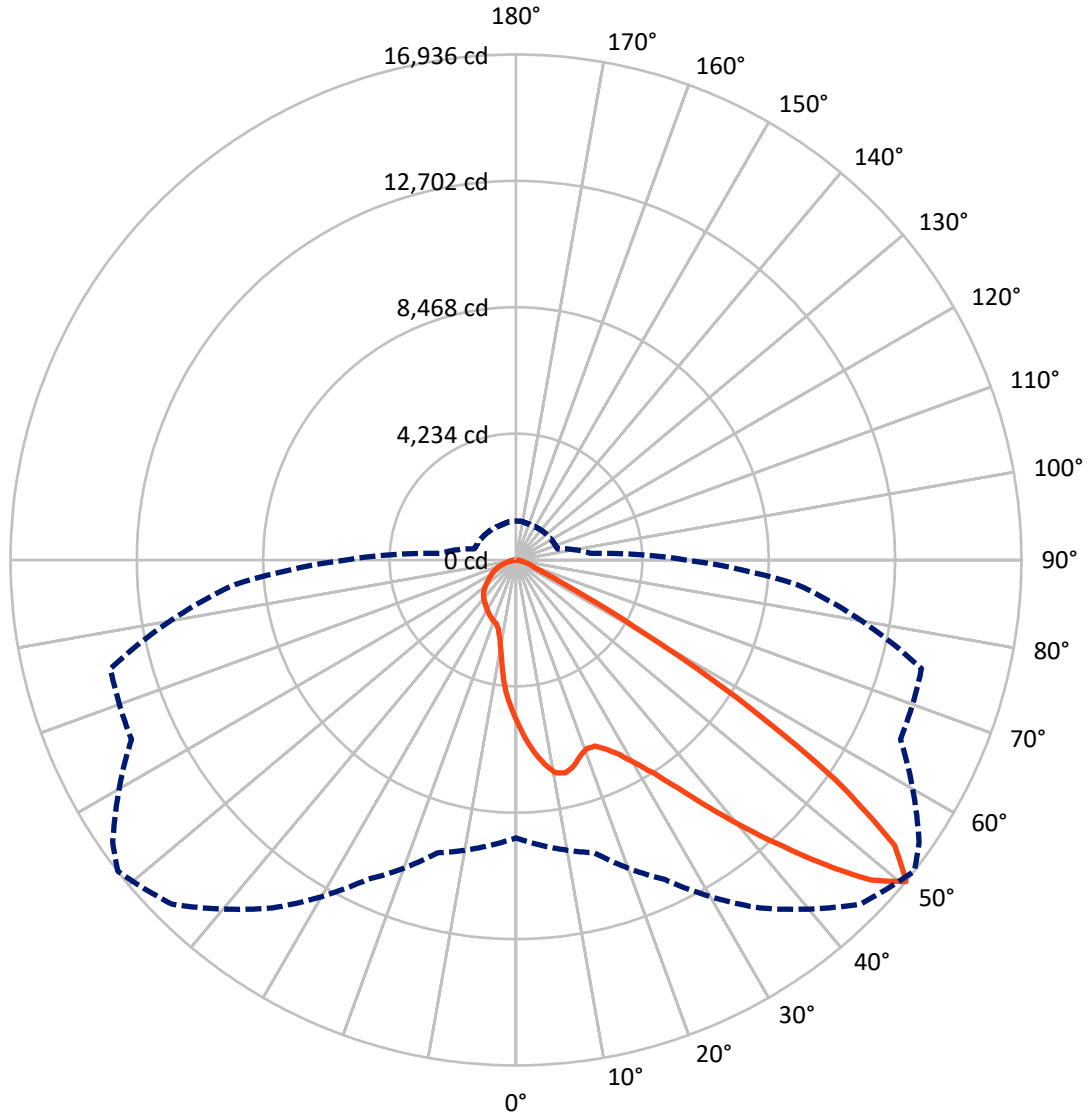
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3618.7	0.0	3618.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	15632.3	0.0	15632.3
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	19251.0	0.0	19251.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.2	2.6
10°-20°	1340.6	7.0
20°-30°	2258.1	11.7
30°-40°	3789.3	19.7
40°-50°	5796.7	30.1
50°-60°	4226.3	22.0
60°-70°	940.6	4.9
70°-80°	339.2	1.8
80°-90°	60.0	0.3
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°	19251.0	100.0
0°-180°	19251.0	100.0

**Coefficient of Utilization**



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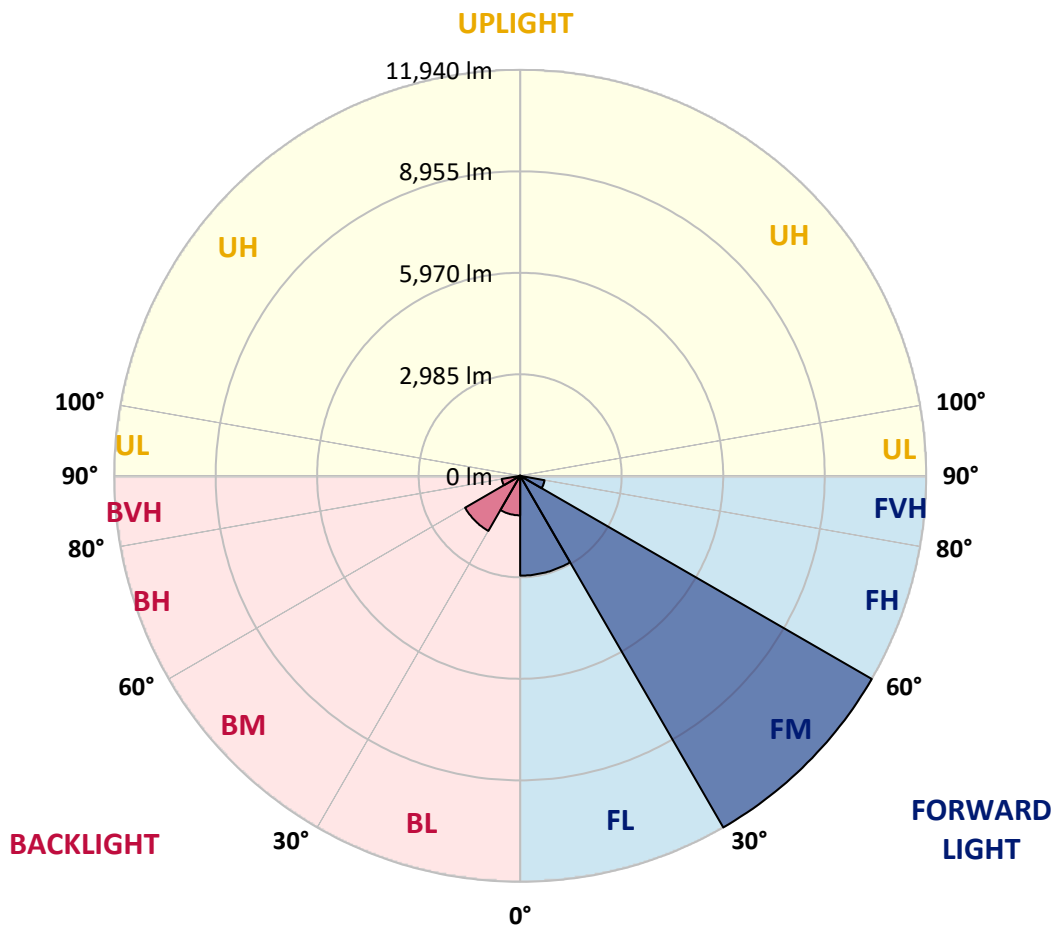
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2936.4	15.3			
FM (30°-60°)	11940.5	62.0			
FH (60°-80°)	728.5	3.8			G1/1800
FVH (80°-90°)	26.9	0.1			G1/100
BL (0°-30°)	1162.4	6.0	B3/2500		
BM (30°-60°)	1871.9	9.7	B2/2500		
BH (60°-80°)	551.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	33.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5426.5	5426.5	5426.5	5426.5	5426.5	5426.5	5426.5	5426.5	5426.5	5426.5	5426.5
2.5°	6389.3	6266.4	6280.3	6192.1	6097.0	6069.2	5971.7	5878.9	5809.3	5660.9	5524.0
5°	6983.3	6946.2	6890.5	6820.9	6749.0	6572.6	6472.9	6356.9	6101.7	5872.0	5644.6
7.5°	7069.1	7062.2	7092.3	7092.3	7117.8	7050.6	6909.0	6827.8	6556.4	6182.9	5760.6
10°	6465.9	6486.8	6633.0	6823.2	7087.7	7271.0	7247.8	7226.9	6929.9	6419.5	5897.5
12.5°	5985.7	5939.3	6025.1	6187.5	6584.2	7027.4	7326.6	7329.0	7252.4	6797.7	5997.3
15°	5714.2	5746.7	5769.9	5846.5	6145.7	6658.5	7185.1	7340.6	7677.0	7064.5	6155.0
17.5°	5888.2	5779.2	5774.5	5793.1	5946.2	6331.3	6923.0	7189.8	7909.0	7407.8	6349.9
20°	6115.6	6113.3	6048.3	6025.1	6022.8	6366.1	6751.3	7113.2	8031.9	7853.3	6547.1
22.5°	6514.6	6514.6	6407.9	6356.9	6247.8	6528.5	6774.5	7020.4	8236.1	8159.5	6642.2
25°	7182.8	7073.8	6890.5	6765.2	6702.6	6802.3	7020.4	7240.8	8414.7	8484.3	6839.4
27.5°	7799.9	7628.2	7537.8	7322.0	7238.5	7180.5	7380.0	7602.7	8623.5	8990.1	6946.2
30°	8500.6	8470.4	8308.0	8029.6	7823.1	7716.4	7899.7	8120.1	9006.3	9507.5	7192.1
32.5°	9753.4	9479.6	9259.2	8918.2	8581.8	8354.4	8535.4	8681.5	9642.0	10048.0	7461.2
35°	11106.0	11017.8	10637.3	10022.5	9507.5	9303.3	9410.0	9519.1	10382.1	10874.0	7913.6
37.5°	12435.3	12314.7	12001.5	11484.1	10857.7	10442.4	10519.0	10646.6	11212.7	11987.6	8465.8
40°	13391.2	13242.7	13084.9	13008.4	12386.6	11818.2	11774.1	11806.6	12335.6	13031.6	9078.3
42.5°	13460.8	13644.1	13692.8	14001.3	13855.2	13388.9	13117.4	13124.4	13407.4	14064.0	9697.7
45°	13314.6	13145.3	13504.9	14347.0	14829.6	15047.7	14590.6	14532.6	14070.9	14662.6	10006.3
47.5°	11781.1	11827.5	12435.3	13767.0	15161.4	16135.8	16029.1	15836.5	14425.9	14641.7	9957.5
50°	9312.6	9593.3	10157.1	11815.9	14233.4	16307.5	16936.2	16490.7	14214.8	14066.3	9461.1
52.5°	6201.4	6317.4	6688.6	8830.0	11444.7	14576.7	15892.2	15994.3	14019.9	13312.3	8832.3
55°	2760.8	2751.5	3273.6	4612.2	7180.5	11092.0	12985.2	13606.9	13270.5	12544.4	8219.8
57.5°	1169.3	1208.7	1422.2	1992.9	3531.1	6693.3	8797.5	9342.7	10205.8	10300.9	6305.8
60°	791.1	795.8	853.8	997.6	1477.9	3143.6	4614.5	5268.8	5885.9	5844.1	3345.5
62.5°	621.8	638.0	682.1	740.1	877.0	1426.8	2064.8	2429.1	2468.5	2076.4	1269.1
65°	531.3	533.6	577.7	626.4	686.7	830.6	995.3	1013.9	1025.5	988.3	932.6
67.5°	438.5	443.1	477.9	533.6	589.3	635.7	682.1	705.3	758.6	863.0	849.1
70°	348.0	355.0	385.1	431.5	482.6	510.4	568.4	589.3	638.0	719.2	751.7
72.5°	264.5	266.8	292.3	324.8	371.2	399.0	447.8	471.0	503.4	573.0	603.2
75°	190.2	197.2	215.8	232.0	239.0	257.5	303.9	329.4	375.8	406.0	408.3
77.5°	99.8	104.4	109.0	109.0	132.2	167.0	197.2	211.1	243.6	266.8	255.2
80°	39.4	41.8	53.4	71.9	92.8	120.6	141.5	148.5	176.3	190.2	197.2
82.5°	23.2	25.5	34.8	51.0	67.3	85.8	102.1	109.0	127.6	143.8	148.5
85°	11.6	13.9	20.9	32.5	44.1	53.4	51.0	48.7	48.7	46.4	48.7
87.5°	4.6	4.6	7.0	7.0	7.0	9.3	11.6	11.6	11.6	13.9	13.9
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°	5426.5	5426.5	5426.5	5426.5	5426.5	5426.5	5426.5	5426.5	5426.5	5426.5	5426.5
2.5°	5433.5	5340.7	5254.9	5097.1	4925.4	4876.7	4677.2	4605.2	4554.2	4493.9	4475.3
5°	5461.3	5338.4	5062.3	4744.5	4491.6	4166.8	3953.3	3723.6	3556.6	3514.8	3503.2
7.5°	5519.3	5308.2	4832.6	4352.4	3835.0	3394.2	3057.8	2876.8	2716.7	2707.5	2691.2
10°	5584.3	5217.7	4582.0	3828.0	3166.8	2758.5	2556.7	2477.8	2438.3	2429.1	2424.4
12.5°	5637.7	5199.2	4301.3	3317.6	2693.5	2447.6	2387.3	2380.3	2396.6	2401.2	2410.5
15°	5660.9	5124.9	3962.6	2860.6	2398.9	2308.4	2333.9	2361.8	2373.4	2403.5	2380.3
17.5°	5704.9	5029.8	3545.0	2498.7	2234.2	2250.4	2294.5	2327.0	2345.5	2366.4	2336.3
20°	5728.1	4944.0	3152.9	2282.9	2176.2	2206.3	2266.7	2292.2	2315.4	2324.7	2289.9
22.5°	5707.3	4767.7	2807.2	2108.9	2120.5	2159.9	2213.3	2241.1	2227.2	2190.1	2169.2
25°	5651.6	4519.4	2447.6	1997.5	2041.6	2111.2	2153.0	2132.1	2106.6	2085.7	2078.7
27.5°	5649.3	4215.5	2187.8	1895.5	1974.3	2069.5	2055.5	2037.0	2048.6	2032.3	2013.8
30°	5660.9	3920.8	1974.3	1837.5	1925.6	1972.0	1988.3	1969.7	1983.6	1953.5	1962.7
32.5°	5600.5	3633.2	1835.1	1770.2	1867.6	1865.3	1918.7	1932.6	1900.1	1837.5	1846.7
35°	5626.1	3401.2	1716.8	1740.0	1802.7	1802.7	1844.4	1828.2	1742.3	1705.2	1714.5
37.5°	5802.4	3173.8	1658.8	1698.3	1740.0	1758.6	1744.7	1675.1	1654.2	1654.2	1658.8
40°	5969.4	2978.9	1624.0	1689.0	1682.0	1693.6	1591.5	1598.5	1598.5	1600.8	1589.2
42.5°	6117.9	2846.7	1596.2	1633.3	1644.9	1584.6	1521.9	1515.0	1531.2	1528.9	1519.6
45°	6171.3	2737.6	1556.7	1570.7	1579.9	1480.2	1450.0	1436.1	1454.7	1461.6	1470.9
47.5°	5967.1	2647.1	1512.7	1484.8	1466.3	1401.3	1361.9	1336.3	1359.5	1399.0	1408.3
50°	5704.9	2528.8	1443.1	1389.7	1350.3	1322.4	1294.6	1269.1	1285.3	1313.1	1306.2
52.5°	5317.5	2343.2	1354.9	1299.2	1231.9	1238.9	1213.4	1199.5	1208.7	1208.7	1201.8
55°	4765.3	1925.6	1206.4	1167.0	1111.3	1129.9	1134.5	1115.9	1097.4	1113.6	1099.7
57.5°	3252.7	1359.5	1076.5	1076.5	1020.8	1046.3	1044.0	999.9	955.9	960.5	951.2
60°	1881.5	1083.5	993.0	983.7	925.7	946.6	951.2	921.0	853.8	858.4	849.1
62.5°	1069.5	925.7	867.7	853.8	842.2	860.7	860.7	821.3	763.3	767.9	758.6
65°	909.4	858.4	774.9	772.6	767.9	772.6	754.0	712.2	661.2	640.3	642.6
67.5°	825.9	793.4	712.2	691.4	677.4	675.1	640.3	600.9	577.7	559.1	556.8
70°	723.8	698.3	638.0	610.2	596.2	563.8	529.0	503.4	471.0	461.7	471.0
72.5°	573.0	570.7	547.5	517.4	487.2	461.7	431.5	396.7	366.6	359.6	343.4
75°	396.7	401.4	406.0	401.4	375.8	343.4	308.6	280.7	243.6	222.7	218.1
77.5°	259.8	266.8	273.8	264.5	248.2	218.1	194.9	160.1	132.2	116.0	113.7
80°	190.2	199.5	204.2	197.2	178.6	155.4	129.9	102.1	81.2	67.3	67.3
82.5°	146.2	155.4	160.1	148.5	129.9	111.4	92.8	71.9	55.7	44.1	41.8
85°	51.0	48.7	58.0	60.3	71.9	67.3	55.7	41.8	32.5	23.2	20.9
87.5°	13.9	13.9	16.2	16.2	13.9	11.6	11.6	11.6	9.3	7.0	7.0
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)