

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: P459126

Luminaire Tested: **GALN-SA6B-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459126
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-SA6B-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 31740 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

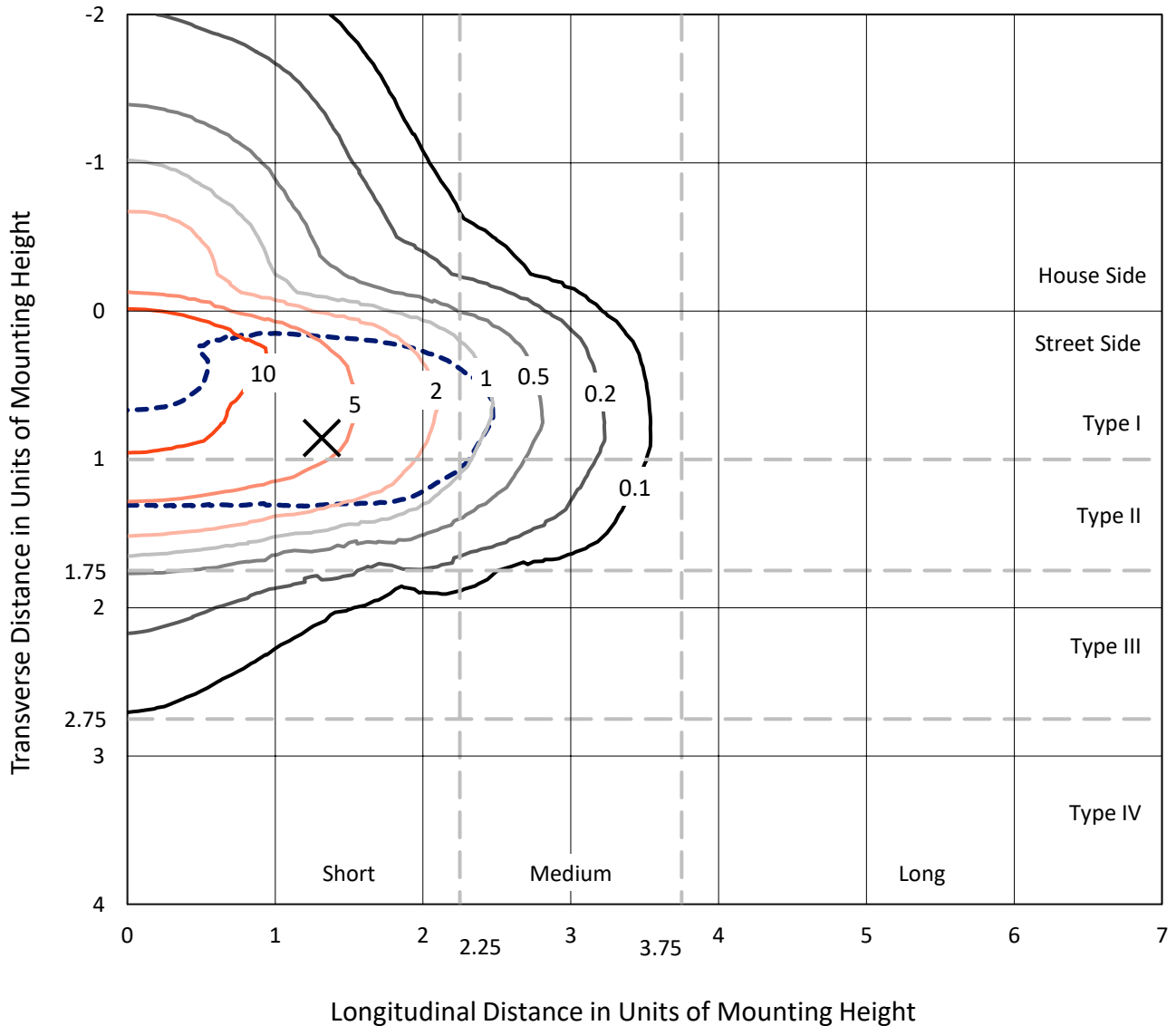
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

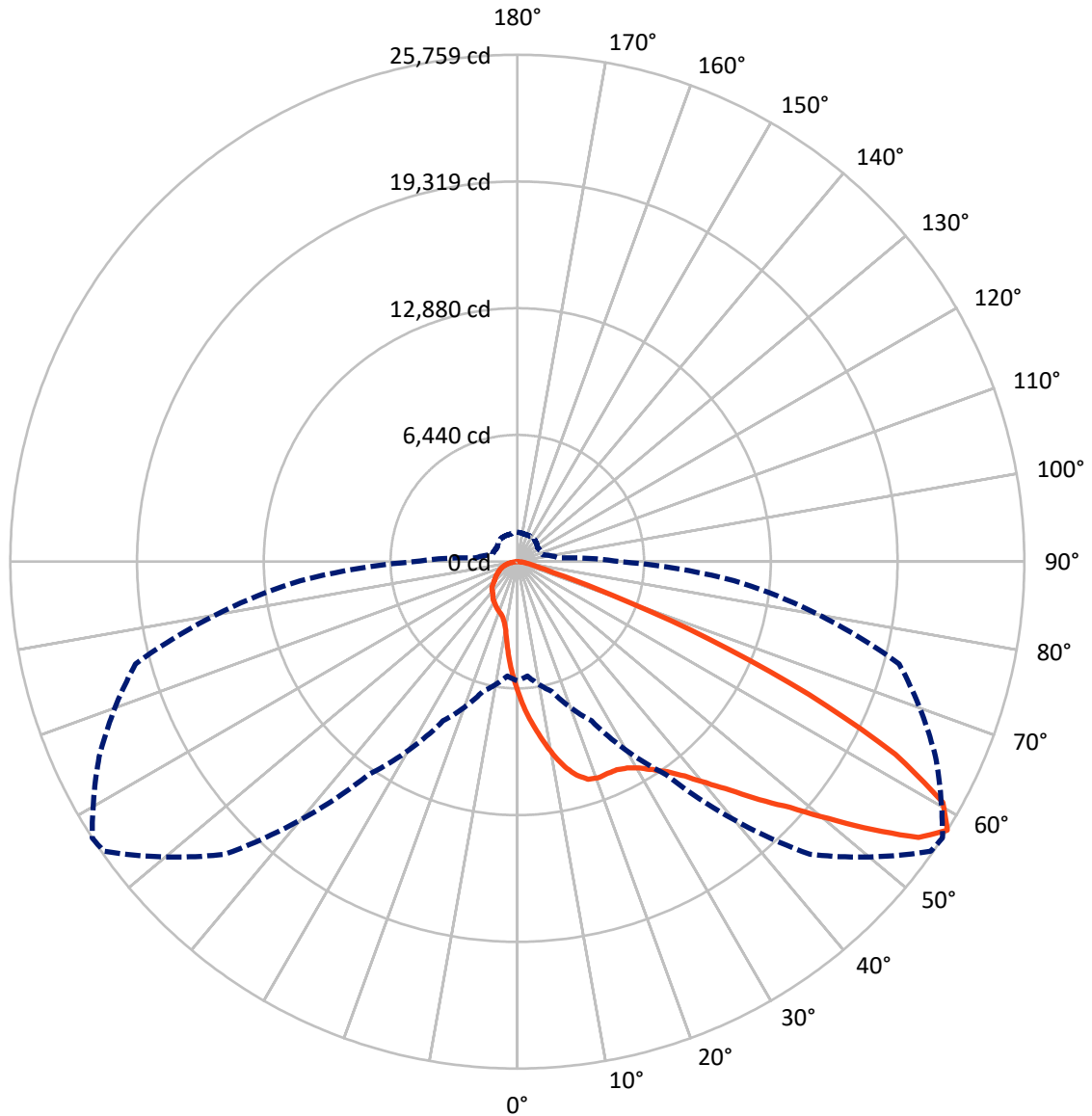
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 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
House Side	Lumens	4826.7	0.0	4826.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	26913.3	0.0	26913.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	31740.0	0.0	31740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.9	2.0
10°-20°	1888.7	6.0
20°-30°	3136.2	9.9
30°-40°	4724.1	14.9
40°-50°	7092.8	22.3
50°-60°	7950.1	25.0
60°-70°	4652.8	14.7
70°-80°	1376.3	4.3
80°-90°	278.2	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°	31740.0	100.0
0°-180°	31740.0	100.0

Coefficient of Utilization



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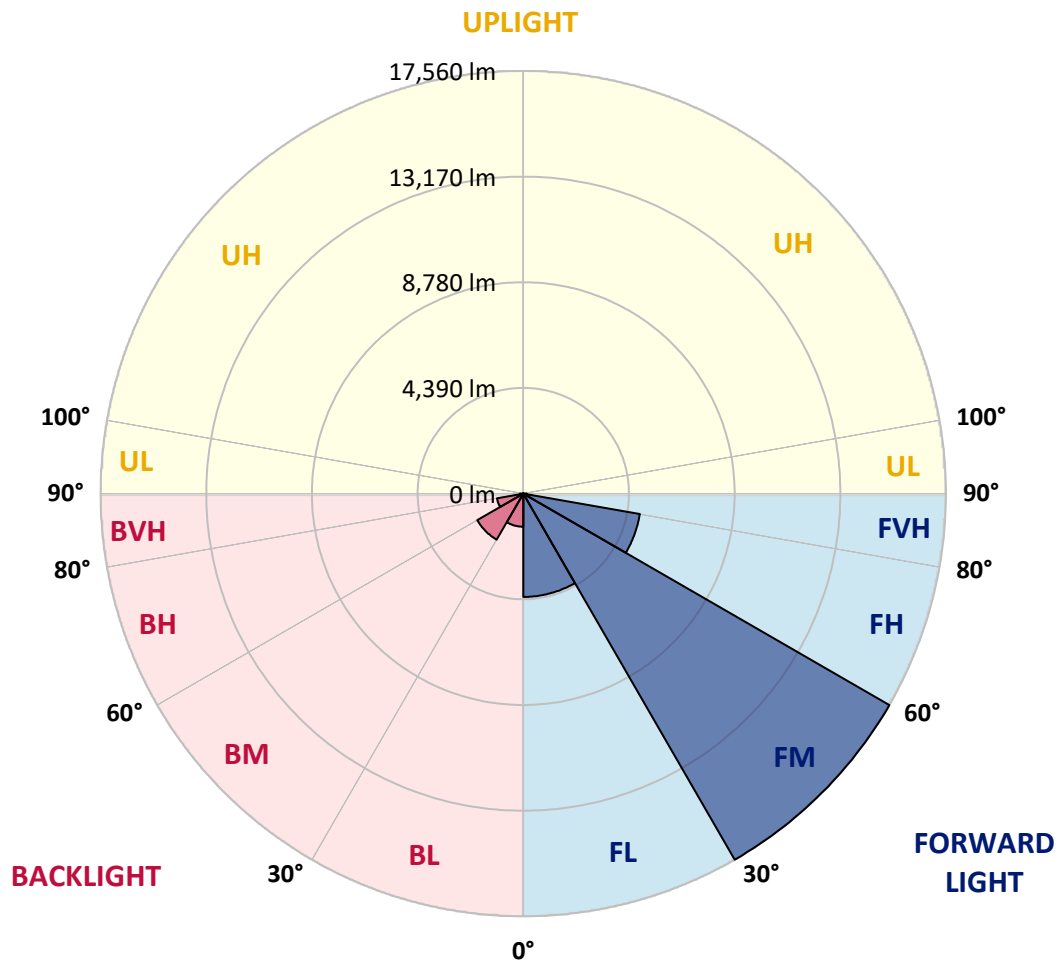
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4290.5	13.5			
FM	(30°-60°)	17560.0	55.3			
FH	(60°-80°)	4918.4	15.5			G2/5000
FVH	(80°-90°)	144.3	0.5			G2/225
BL	(0°-30°)	1375.3	4.3	B3/2500		
BM	(30°-60°)	2207.0	7.0	B2/2500		
BH	(60°-80°)	1110.6	3.5	B3/2500		G3/2500
BVH	(80°-90°)	133.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6668.2	6668.2	6668.2	6668.2	6668.2	6668.2	6668.2	6668.2	6668.2	6668.2	6668.2
2.5°	8285.7	8195.4	8124.2	8061.6	7980.0	7759.3	7538.7	7535.2	7359.7	7088.7	6810.7
5°	9635.7	9514.1	9529.7	9335.1	9140.6	8820.9	8353.5	8329.2	7955.6	7448.3	6932.3
7.5°	10514.9	10516.6	10467.9	10356.7	10146.5	9783.4	9253.5	9133.6	8614.1	7844.4	7071.3
10°	10469.7	10516.6	10598.3	10693.8	10758.1	10579.1	10096.1	9950.2	9274.3	8324.0	7225.9
12.5°	9868.5	9941.5	10057.9	10297.7	10685.1	10980.5	10815.4	10697.3	10038.8	8801.8	7396.2
15°	9493.3	9536.7	9601.0	9762.6	10179.5	10886.7	11314.1	11251.5	10759.8	9342.1	7587.3
17.5°	9378.6	9422.0	9442.9	9541.9	9839.0	10563.5	11510.4	11621.6	11399.2	9839.0	7780.2
20°	9493.3	9514.1	9514.1	9573.2	9806.0	10374.1	11501.7	11725.8	11923.9	10434.9	7960.8
22.5°	9793.8	9802.5	9790.4	9811.2	9984.9	10426.2	11420.0	11698.0	12347.8	10940.5	8101.6
25°	10282.0	10295.9	10216.0	10167.4	10294.2	10655.6	11465.2	11720.6	12679.7	11423.5	8195.4
27.5°	10836.3	10853.7	10756.4	10643.4	10702.5	10938.8	11642.4	11871.8	12928.1	11899.6	8254.5
30°	11515.6	11522.6	11359.2	11223.7	11185.5	11361.0	11944.7	12158.5	13237.4	12460.8	8343.1
32.5°	12210.6	12262.7	12052.5	11861.4	11797.1	11850.9	12391.3	12598.0	13605.7	13063.6	8485.6
35°	13155.7	13164.4	12912.5	12679.7	12467.7	12537.2	12962.9	13112.3	14114.8	13760.4	8687.1
37.5°	14335.4	14415.4	14067.9	13633.5	13372.9	13272.1	13654.4	13817.7	14828.9	14615.2	8991.1
40°	15645.5	15675.0	15377.9	15106.9	14630.8	14338.9	14603.0	14780.2	15709.7	15635.0	9343.8
42.5°	16469.0	16533.3	16555.9	16528.1	16170.2	15680.2	15781.0	15864.4	16752.2	16592.3	9705.2
45°	16747.0	16842.5	17165.7	17850.2	17888.5	17405.5	17170.9	17250.8	17888.5	17558.3	10051.0
47.5°	16286.6	16449.9	17045.8	18449.6	19500.8	19537.3	18830.1	18654.7	18924.0	18359.3	10301.2
50°	15096.4	15131.2	16043.3	18076.1	20256.6	21575.3	20843.8	20517.2	19907.3	18951.8	10473.2
52.5°	13254.8	13294.7	14059.2	16340.4	19790.9	22999.9	23199.7	22616.0	20906.4	19412.2	10586.1
55°	9839.0	10070.1	10911.0	13115.8	17584.4	22866.2	25072.7	24740.8	22113.9	19777.0	10763.3
57.5°	6049.7	5837.7	6835.0	8923.4	13225.2	21028.0	25651.2	25759.0	23443.0	20082.8	11060.4
60°	2783.3	2825.0	3236.8	4602.4	8061.6	16449.9	24160.5	24841.6	24177.9	20072.4	11135.1
62.5°	1918.1	1879.9	1775.6	2020.6	3676.4	10403.7	20407.7	21561.4	22704.6	19448.7	10838.0
65°	1714.8	1676.6	1475.1	1407.3	1688.8	4534.7	14835.8	16291.8	19116.8	17874.6	10097.9
67.5°	1601.9	1549.8	1341.3	1209.2	1205.8	1805.2	8747.9	10501.0	14179.1	15112.1	8749.6
70°	1483.8	1442.1	1235.3	1089.4	1026.8	1134.5	3844.9	5033.3	9206.6	10890.1	6815.9
72.5°	1365.6	1317.0	1131.1	974.7	893.0	849.6	1473.3	1916.4	5201.8	6529.2	4178.5
75°	1193.6	1169.3	1011.2	882.6	794.0	686.3	934.7	1066.8	2488.0	2998.8	2097.1
77.5°	1044.2	1018.1	898.2	771.4	707.1	557.7	663.7	724.5	1049.4	1216.2	946.9
80°	764.5	790.5	757.5	681.1	630.7	437.8	446.5	496.9	623.7	689.8	578.6
82.5°	484.7	533.4	583.8	524.7	477.8	345.7	309.3	328.4	425.7	451.7	257.1
85°	203.3	206.8	338.8	319.7	272.8	205.0	185.9	196.3	227.6	238.0	119.9
87.5°	78.2	76.4	119.9	111.2	85.1	59.1	59.1	66.0	90.3	83.4	38.2
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°	6668.2	6668.2	6668.2	6668.2	6668.2	6668.2	6668.2	6668.2	6668.2	6668.2	6668.2
2.5°	6690.8	6567.4	6322.5	6018.4	5796.0	5545.8	5325.2	5167.1	5108.0	5080.2	5028.1
5°	6685.6	6442.3	5935.0	5403.4	4976.0	4538.1	4168.1	3928.3	3907.5	3747.6	3732.0
7.5°	6687.3	6315.5	5507.6	4725.8	4074.2	3626.0	3320.2	3240.3	3144.7	3120.4	3132.6
10°	6692.5	6153.9	5048.9	4055.1	3424.5	3130.8	3016.2	2984.9	2988.4	2998.8	3000.5
12.5°	6699.5	5997.6	4572.9	3546.1	3059.6	2938.0	2925.8	2953.6	2983.1	3005.7	3010.9
15°	6708.2	5818.6	4109.0	3136.0	2877.2	2866.7	2906.7	2953.6	2995.3	3028.3	3033.5
17.5°	6697.7	5610.1	3719.8	2884.1	2776.4	2826.8	2892.8	2951.9	2990.1	3021.4	3024.8
20°	6673.4	5377.3	3344.5	2706.9	2713.8	2795.5	2866.7	2922.3	2964.0	2979.7	2991.8
22.5°	6579.6	5099.3	3017.9	2569.6	2639.1	2752.1	2837.2	2870.2	2823.3	2790.3	2799.0
25°	6419.8	4737.9	2713.8	2458.4	2571.4	2691.3	2778.1	2698.2	2660.0	2646.1	2653.0
27.5°	6220.0	4341.8	2484.5	2342.0	2484.5	2623.5	2599.2	2585.3	2567.9	2545.3	2550.5
30°	6004.5	3954.4	2289.9	2251.7	2390.7	2470.6	2481.0	2503.6	2484.5	2449.8	2463.7
32.5°	5804.7	3589.5	2142.2	2175.2	2324.7	2312.5	2390.7	2416.7	2328.1	2211.7	2216.9
35°	5634.4	3250.7	2031.0	2100.5	2211.7	2216.9	2295.1	2204.8	2109.2	2053.6	2057.1
37.5°	5505.9	2986.6	1958.1	2036.3	2067.5	2133.5	2091.9	2044.9	2032.8	1994.6	1996.3
40°	5429.4	2755.5	1911.2	1985.9	1980.7	2025.8	1892.0	1939.0	1956.3	1944.2	1945.9
42.5°	5353.0	2592.2	1862.5	1916.4	1914.6	1826.0	1796.5	1836.5	1881.6	1886.8	1883.4
45°	5292.2	2465.4	1812.1	1810.4	1845.1	1706.1	1697.5	1721.8	1786.1	1817.3	1815.6
47.5°	5224.4	2359.4	1735.7	1687.0	1697.5	1631.4	1617.5	1628.0	1706.1	1756.5	1770.4
50°	5139.3	2253.4	1640.1	1574.1	1530.7	1561.9	1565.4	1567.2	1645.3	1702.7	1714.8
52.5°	5071.5	2173.5	1530.7	1482.0	1429.9	1499.4	1525.5	1528.9	1575.8	1622.7	1631.4
55°	5111.5	2128.3	1422.9	1388.2	1341.3	1435.1	1485.5	1492.4	1502.9	1537.6	1542.8
57.5°	5231.4	2138.8	1336.1	1290.9	1256.2	1358.7	1443.8	1449.0	1442.1	1483.8	1490.7
60°	5267.9	2133.5	1271.8	1183.2	1162.3	1277.0	1383.0	1393.4	1391.7	1452.5	1464.6
62.5°	5115.0	2067.5	1207.5	1092.8	1078.9	1193.6	1297.9	1339.5	1348.2	1435.1	1450.7
65°	4755.3	1932.0	1122.4	997.3	997.3	1105.0	1216.2	1273.5	1297.9	1414.3	1431.6
67.5°	4281.0	1772.2	1035.5	915.6	912.1	1019.9	1129.3	1188.4	1226.6	1384.7	1395.1
70°	3553.0	1556.7	927.8	827.0	827.0	924.3	1023.3	1094.6	1150.2	1329.1	1329.1
72.5°	2434.1	1294.4	797.5	726.2	728.0	818.3	919.1	999.0	1065.0	1217.9	1221.4
75°	1539.4	1011.2	655.0	618.5	625.5	710.6	814.8	898.2	1030.3	1204.0	1209.2
77.5°	818.3	710.6	521.2	512.5	521.2	599.4	715.8	830.5	1033.8	1044.2	1026.8
80°	529.9	503.9	411.8	394.4	397.9	483.0	637.6	788.8	830.5	840.9	802.7
82.5°	288.4	319.7	291.9	274.5	274.5	377.0	543.8	627.2	595.9	495.2	472.6
85°	123.4	149.4	151.2	132.0	126.8	232.8	364.9	342.3	317.9	304.0	300.6
87.5°	34.7	48.6	48.6	36.5	27.8	64.3	73.0	20.8	0.0	1.7	3.5
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)