

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: P459213

Luminaire Tested: **GALN-SA7A-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459213
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-SA7A-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 29963 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

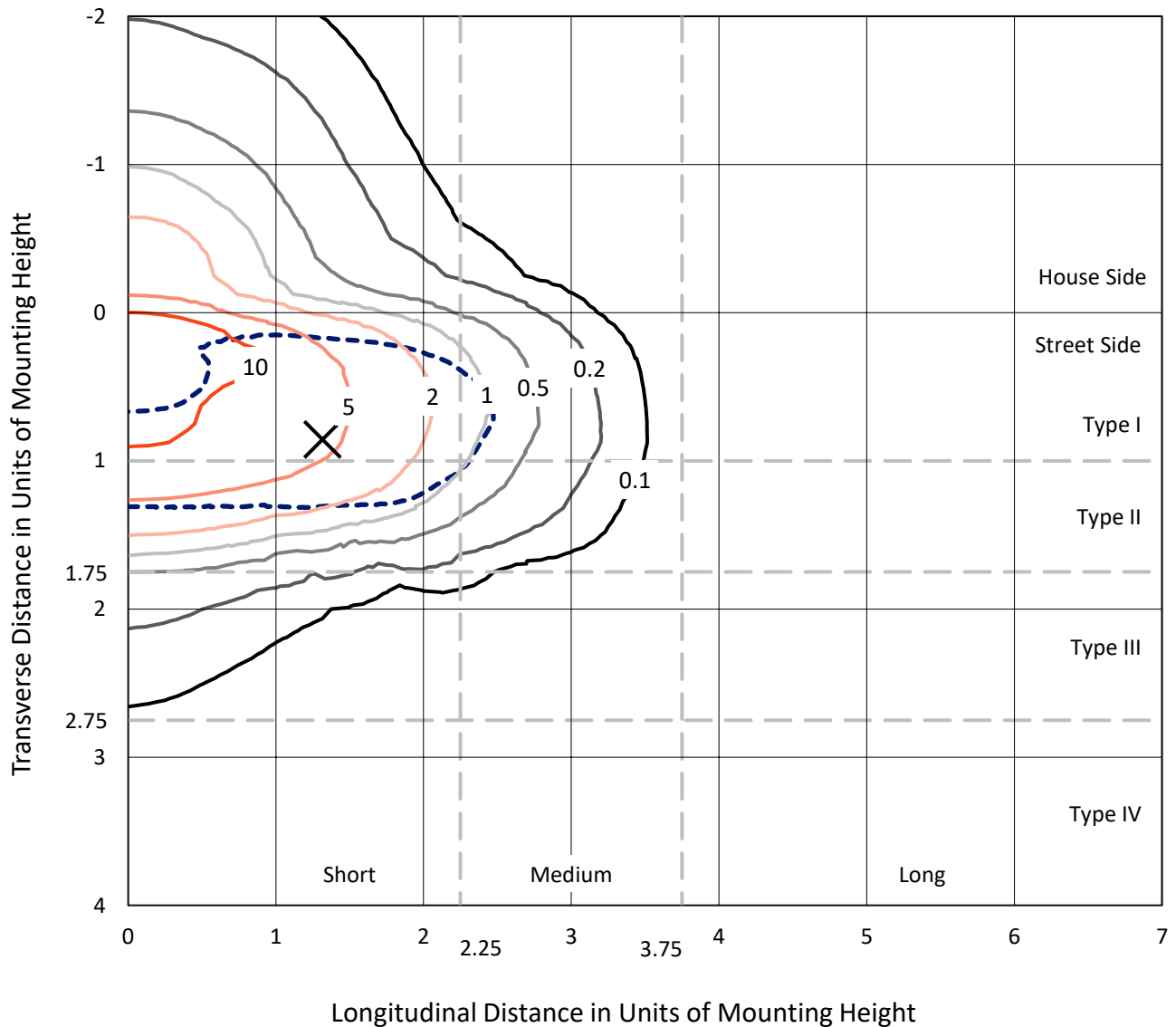
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

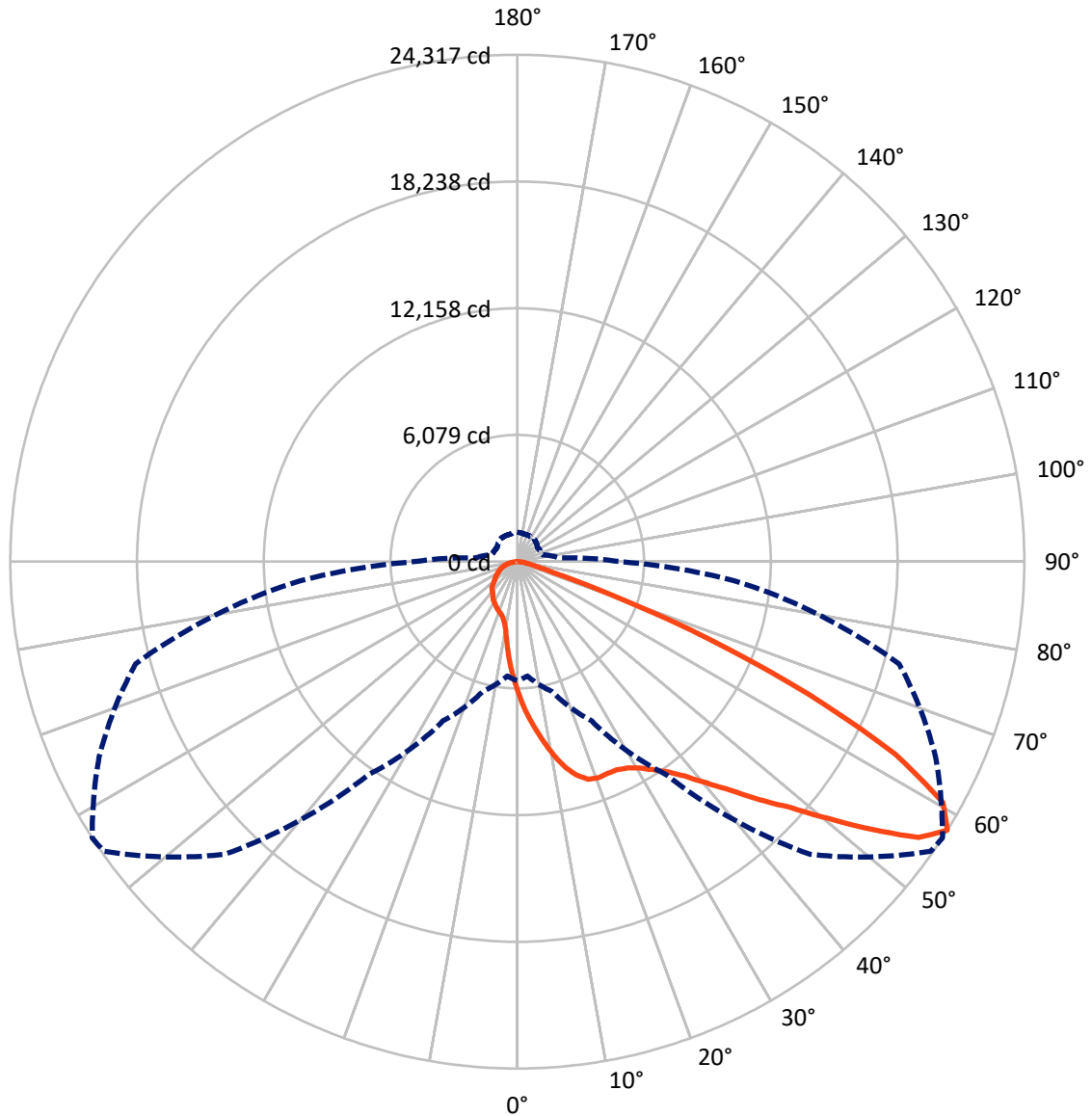
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	4556.5	0.0	4556.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	25406.5	0.0	25406.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	29963.0	0.0	29963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.0	2.0
10°-20°	1783.0	6.0
20°-30°	2960.6	9.9
30°-40°	4459.6	14.9
40°-50°	6695.7	22.3
50°-60°	7505.0	25.0
60°-70°	4392.3	14.7
70°-80°	1299.2	4.3
80°-90°	262.6	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°	29963.0	100.0
0°-180°	29963.0	100.0

Coefficient of Utilization



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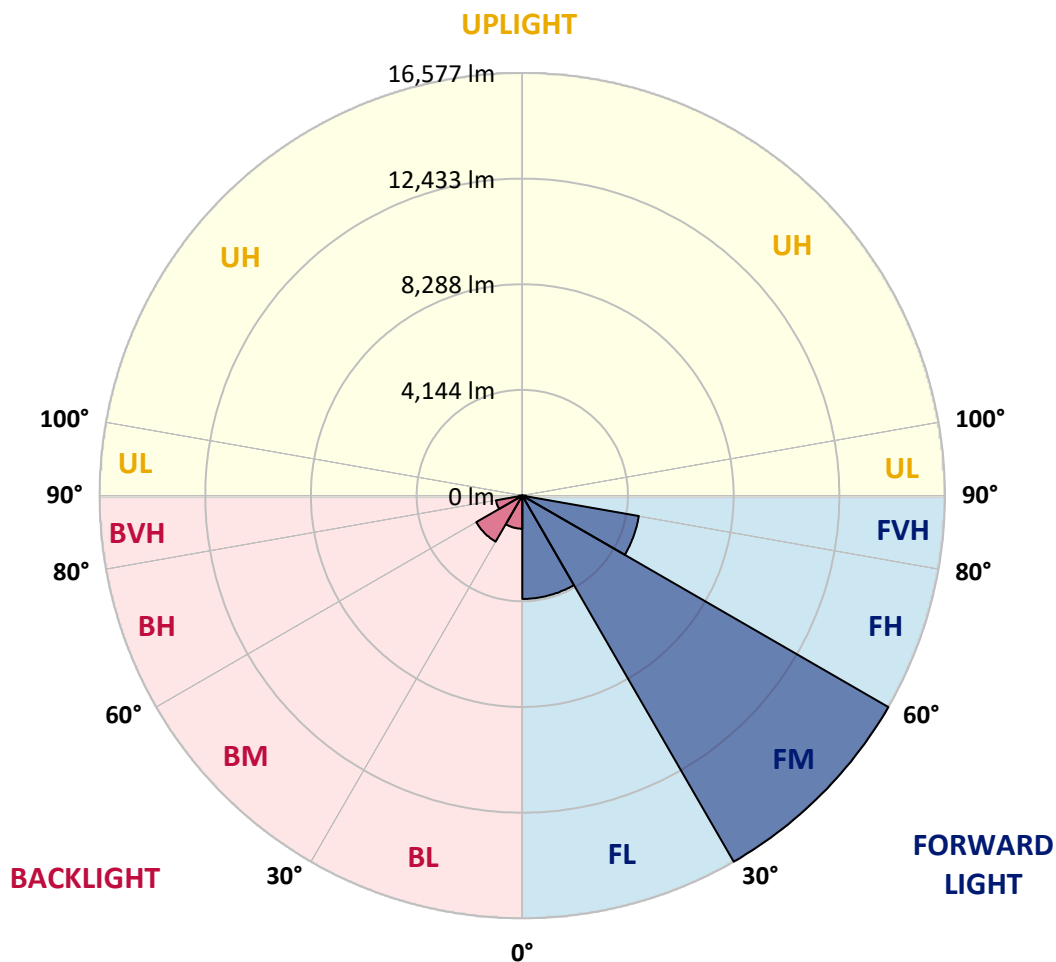
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4050.3	13.5			
FM	(30°-60°)	16576.8	55.3			
FH	(60°-80°)	4643.1	15.5			G2/5000
FVH	(80°-90°)	136.3	0.5			G2/225
BL	(0°-30°)	1298.3	4.3	B3/2500		
BM	(30°-60°)	2083.4	7.0	B2/2500		
BH	(60°-80°)	1048.4	3.5	B3/2500		G3/2500
BVH	(80°-90°)	126.3	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°	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9
2.5°	7821.9	7736.6	7669.3	7610.3	7533.2	7324.9	7116.6	7113.3	6947.7	6691.8	6429.4
5°	9096.3	8981.4	8996.2	8812.5	8628.8	8327.0	7885.8	7862.9	7510.2	7031.3	6544.2
7.5°	9926.2	9927.8	9881.9	9776.9	9578.5	9235.7	8735.4	8622.3	8131.8	7405.3	6675.4
10°	9883.5	9927.8	10004.9	10095.1	10155.8	9986.9	9530.9	9393.1	8755.1	7857.9	6821.4
12.5°	9316.0	9384.9	9494.8	9721.2	10086.9	10365.7	10209.9	10098.4	9476.8	8309.0	6982.1
15°	8961.8	9002.8	9063.5	9216.0	9609.6	10277.2	10680.6	10621.6	10157.4	8819.1	7162.5
17.5°	8853.5	8894.5	8914.2	9007.7	9288.2	9972.1	10866.0	10970.9	10761.0	9288.2	7344.6
20°	8961.8	8981.4	8981.4	9037.2	9257.0	9793.3	10857.8	11069.4	11256.3	9850.7	7515.2
22.5°	9245.5	9253.7	9242.2	9261.9	9425.9	9842.5	10780.7	11043.1	11656.5	10328.0	7648.0
25°	9706.4	9719.5	9644.1	9598.1	9717.9	10059.0	10823.3	11064.4	11969.8	10784.0	7736.6
27.5°	10229.6	10246.0	10154.1	10047.5	10103.3	10326.4	10990.6	11207.1	12204.3	11233.4	7792.3
30°	10870.9	10877.5	10723.3	10595.3	10559.3	10724.9	11276.0	11477.7	12496.3	11763.1	7876.0
32.5°	11527.0	11576.2	11377.7	11197.3	11136.6	11187.4	11697.5	11892.7	12844.0	12332.3	8010.5
35°	12419.2	12427.4	12189.6	11969.8	11769.7	11835.3	12237.1	12378.2	13324.6	12990.0	8200.7
37.5°	13532.9	13608.3	13280.3	12870.2	12624.2	12529.1	12889.9	13044.1	13998.7	13796.9	8487.8
40°	14769.5	14797.4	14516.9	14261.1	13811.7	13536.1	13785.4	13952.7	14830.2	14759.7	8820.7
42.5°	15547.0	15607.6	15629.0	15602.7	15264.8	14802.3	14897.5	14976.2	15814.3	15663.4	9161.9
45°	15809.4	15899.6	16204.7	16850.9	16887.0	16431.0	16209.6	16285.0	16887.0	16575.3	9488.2
47.5°	15374.7	15528.9	16091.5	17416.7	18409.0	18443.5	17775.9	17610.3	17864.5	17331.4	9724.4
50°	14251.2	14284.0	15145.1	17064.1	19122.5	20367.3	19676.8	19368.5	18792.8	17890.7	9886.8
52.5°	12512.7	12550.4	13272.1	15425.6	18682.9	21712.3	21900.9	21349.8	19735.9	18325.4	9993.4
55°	9288.2	9506.3	10300.1	12381.5	16599.9	21586.0	23669.0	23355.7	20875.8	18669.8	10160.7
57.5°	5711.0	5510.9	6452.3	8423.8	12484.8	19850.7	24215.1	24316.8	22130.5	18958.5	10441.2
60°	2627.5	2666.9	3055.6	4344.7	7610.3	15528.9	22807.9	23450.8	22824.3	18948.6	10511.7
62.5°	1810.7	1774.6	1676.2	1907.5	3470.6	9821.2	19265.2	20354.2	21433.4	18359.8	10231.2
65°	1618.8	1582.7	1392.5	1328.5	1594.2	4280.8	14005.2	15379.7	18046.5	16873.8	9532.5
67.5°	1512.2	1463.0	1266.2	1141.5	1138.3	1704.1	8258.1	9913.0	13385.2	14266.0	8259.8
70°	1400.7	1361.3	1166.1	1028.4	969.3	1071.0	3629.6	4751.5	8691.1	10280.4	6434.3
72.5°	1289.2	1243.2	1067.7	920.1	843.0	802.0	1390.8	1809.1	4910.6	6163.7	3944.6
75°	1126.8	1103.8	954.6	833.2	749.5	647.9	882.4	1007.1	2348.7	2830.9	1979.7
77.5°	985.7	961.1	848.0	728.2	667.5	526.5	626.5	683.9	990.6	1148.1	893.9
80°	721.7	746.3	715.1	642.9	595.4	413.3	421.5	469.1	588.8	651.1	546.2
82.5°	457.6	503.5	551.1	495.3	451.0	326.4	291.9	310.0	401.8	426.4	242.7
85°	191.9	195.2	319.8	301.8	257.5	193.5	175.5	185.3	214.9	224.7	113.2
87.5°	73.8	72.2	113.2	105.0	80.4	55.8	55.8	62.3	85.3	78.7	36.1
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°	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9	6294.9
2.5°	6316.2	6199.8	5968.5	5681.5	5471.5	5235.3	5027.0	4877.8	4822.0	4795.8	4746.6
5°	6311.3	6081.7	5602.7	5100.9	4697.4	4284.1	3934.7	3708.4	3688.7	3537.8	3523.0
7.5°	6312.9	5961.9	5199.3	4461.2	3846.1	3423.0	3134.3	3058.9	2968.7	2945.7	2957.2
10°	6317.8	5809.4	4766.3	3828.1	3232.7	2955.5	2847.3	2817.8	2821.1	2830.9	2832.5
12.5°	6324.4	5661.8	4316.9	3347.5	2888.3	2773.5	2762.0	2788.2	2816.1	2837.5	2842.4
15°	6332.6	5492.9	3878.9	2960.5	2716.1	2706.2	2744.0	2788.2	2827.6	2858.8	2863.7
17.5°	6322.8	5296.0	3511.6	2722.6	2621.0	2668.5	2730.8	2786.6	2822.7	2852.2	2855.5
20°	6299.8	5076.3	3157.3	2555.3	2561.9	2639.0	2706.2	2758.7	2798.1	2812.9	2824.3
22.5°	6211.2	4813.8	2848.9	2425.8	2491.4	2598.0	2678.4	2709.5	2665.2	2634.1	2642.3
25°	6060.3	4472.7	2561.9	2320.8	2427.4	2540.6	2622.6	2547.1	2511.1	2497.9	2504.5
27.5°	5871.7	4098.7	2345.4	2210.9	2345.4	2476.6	2453.7	2440.5	2424.1	2402.8	2407.7
30°	5668.3	3733.0	2161.7	2125.6	2256.8	2332.3	2342.1	2363.5	2345.4	2312.6	2325.7
32.5°	5479.7	3388.5	2022.3	2053.5	2194.5	2183.0	2256.8	2281.4	2197.8	2087.9	2092.8
35°	5319.0	3068.7	1917.3	1982.9	2087.9	2092.8	2166.6	2081.3	1991.1	1938.7	1941.9
37.5°	5197.6	2819.4	1848.4	1922.3	1951.8	2014.1	1974.7	1930.5	1919.0	1882.9	1884.5
40°	5125.5	2601.3	1804.2	1874.7	1869.8	1912.4	1786.1	1830.4	1846.8	1835.3	1837.0
42.5°	5053.3	2447.1	1758.2	1809.1	1807.4	1723.8	1695.9	1733.6	1776.3	1781.2	1777.9
45°	4995.9	2327.4	1710.7	1709.0	1741.8	1610.6	1602.4	1625.4	1686.1	1715.6	1714.0
47.5°	4931.9	2227.3	1638.5	1592.6	1602.4	1540.1	1527.0	1536.8	1610.6	1658.2	1671.3
50°	4851.6	2127.3	1548.3	1486.0	1445.0	1474.5	1477.8	1479.4	1553.2	1607.3	1618.8
52.5°	4787.6	2051.8	1445.0	1399.0	1349.8	1415.4	1440.0	1443.3	1487.6	1531.9	1540.1
55°	4825.3	2009.2	1343.3	1310.5	1266.2	1354.8	1402.3	1408.9	1418.7	1451.5	1456.5
57.5°	4938.5	2019.0	1261.3	1218.6	1185.8	1282.6	1363.0	1367.9	1361.3	1400.7	1407.2
60°	4972.9	2014.1	1200.6	1116.9	1097.3	1205.5	1305.6	1315.4	1313.8	1371.2	1382.6
62.5°	4828.6	1951.8	1139.9	1031.7	1018.5	1126.8	1225.2	1264.6	1272.8	1354.8	1369.5
65°	4489.1	1823.8	1059.5	941.4	941.4	1043.1	1148.1	1202.2	1225.2	1335.1	1351.5
67.5°	4041.3	1672.9	977.5	864.4	861.1	962.8	1066.1	1121.9	1157.9	1307.2	1317.0
70°	3354.1	1469.6	875.8	780.7	780.7	872.6	966.0	1033.3	1085.8	1254.7	1254.7
72.5°	2297.8	1221.9	752.8	685.6	687.2	772.5	867.6	943.1	1005.4	1149.7	1153.0
75°	1453.2	954.6	618.3	583.9	590.5	670.8	769.2	848.0	972.6	1136.6	1141.5
77.5°	772.5	670.8	492.0	483.8	492.0	565.9	675.7	784.0	975.9	985.7	969.3
80°	500.2	475.6	388.7	372.3	375.6	456.0	601.9	744.6	784.0	793.8	757.7
82.5°	272.3	301.8	275.5	259.1	259.1	355.9	513.4	592.1	562.6	467.4	446.1
85°	116.5	141.1	142.7	124.7	119.7	219.8	344.4	323.1	300.1	287.0	283.7
87.5°	32.8	45.9	45.9	34.4	26.2	60.7	68.9	19.7	0.0	1.6	3.3
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)