

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: P459144

Luminaire Tested: **GALN-SA6B-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
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-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31170 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

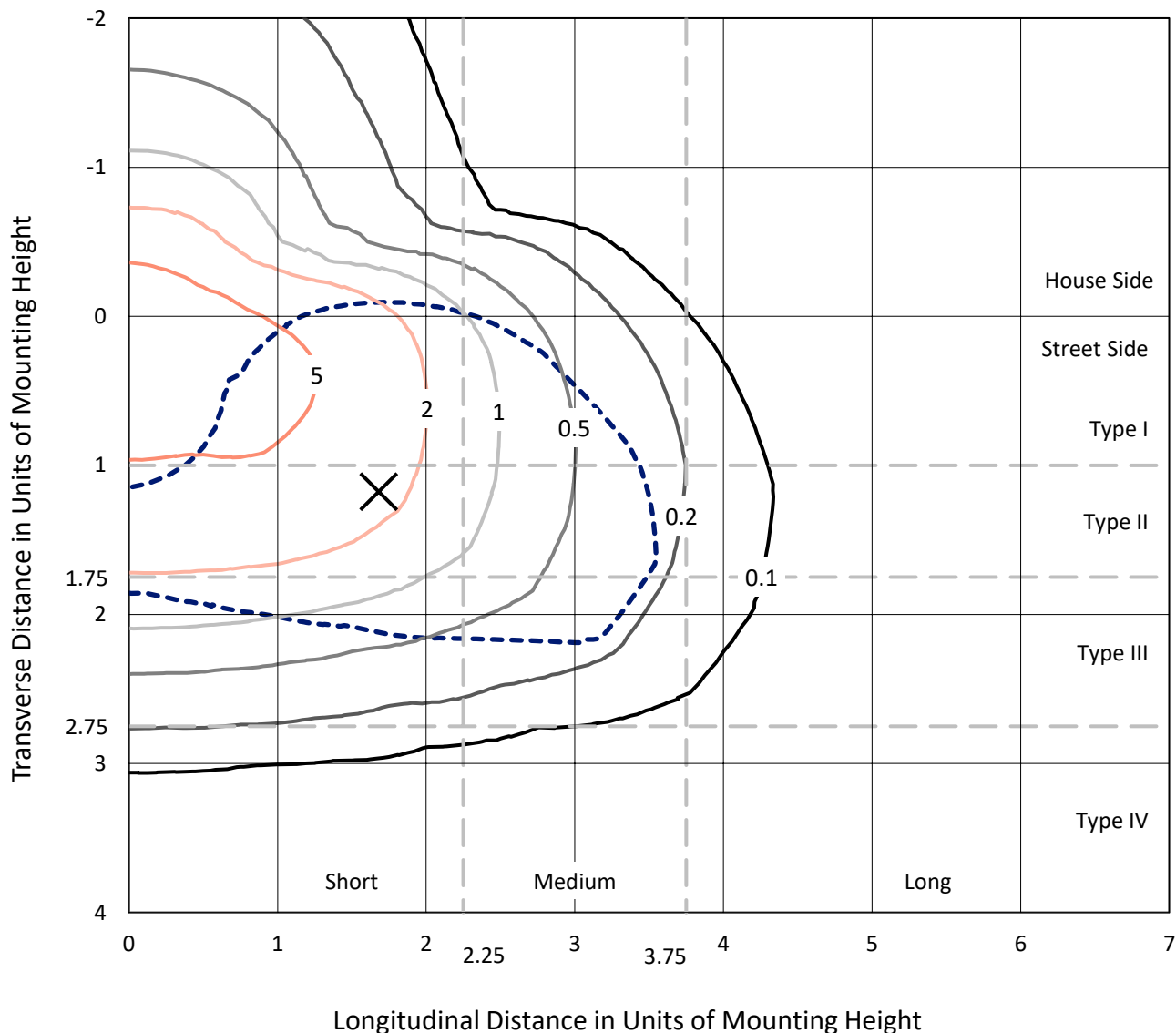
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

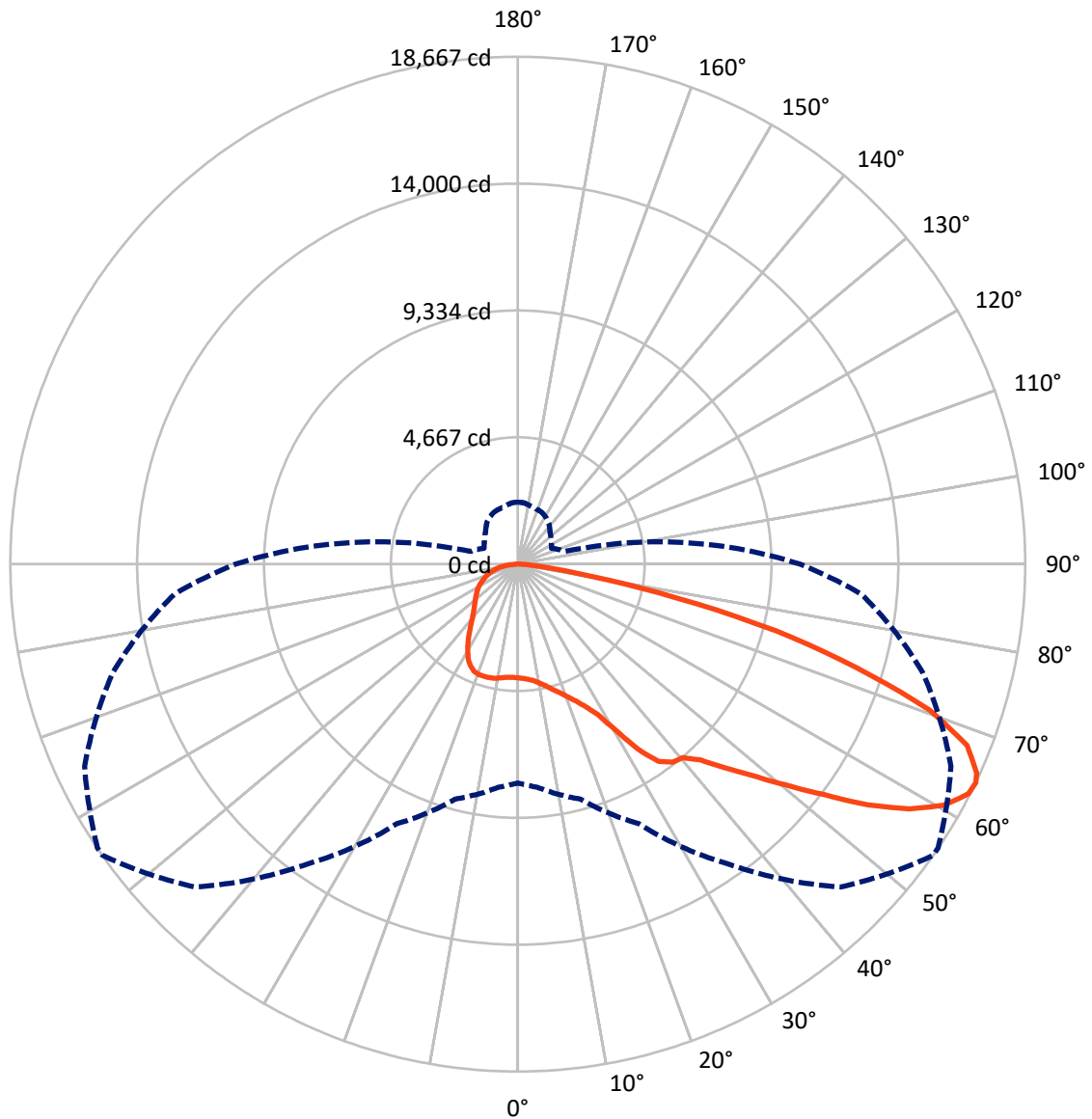
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7571.8	0.0	7571.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	23598.2	0.0	23598.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	31170.0	0.0	31170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.8	1.3
10°-20°	1283.6	4.1
20°-30°	2285.1	7.3
30°-40°	3515.9	11.3
40°-50°	4984.1	16.0
50°-60°	7214.4	23.1
60°-70°	7466.1	24.0
70°-80°	3496.4	11.2
80°-90°	517.6	1.7
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°	31170.0	100.0
0°-180°	31170.0	100.0

Coefficient of Utilization



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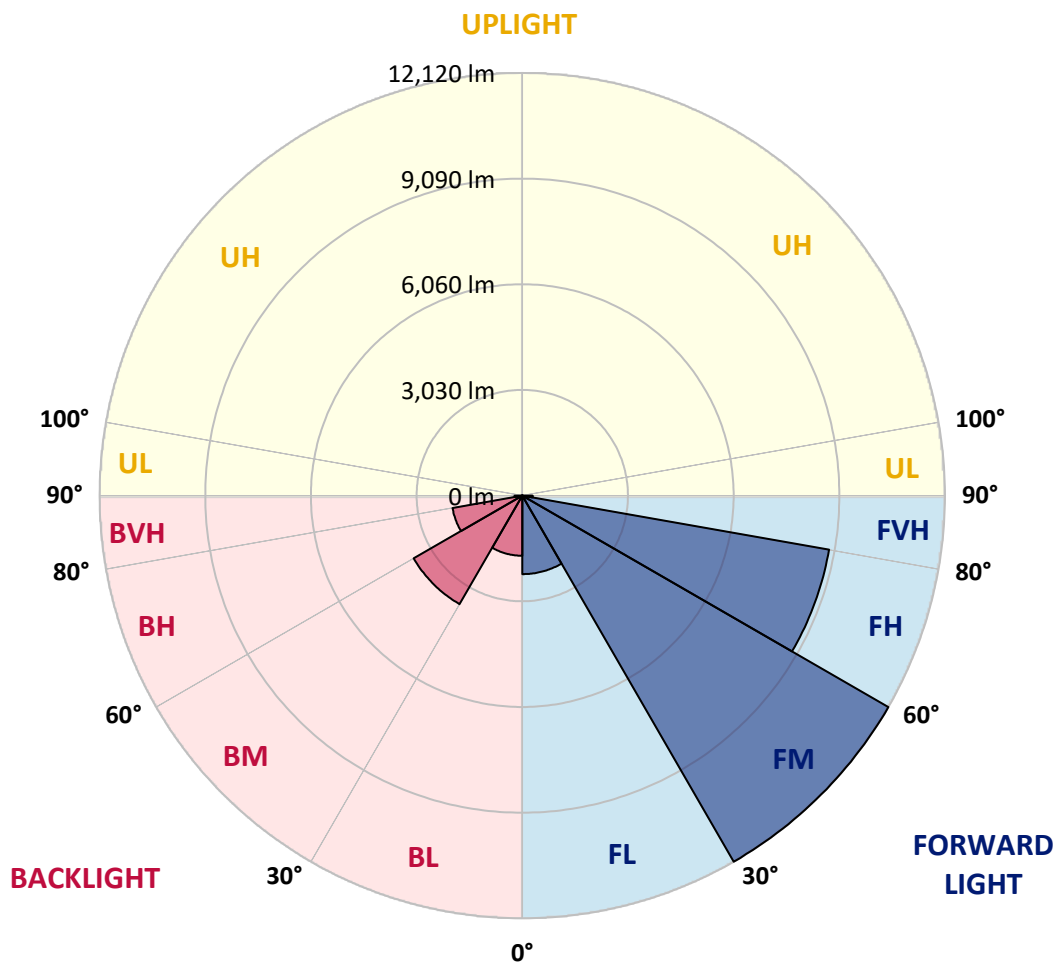
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2251.0	7.2			
FM	(30°-60°)	12119.7	38.9			
FH	(60°-80°)	8931.1	28.7			G4/12000
FVH	(80°-90°)	296.4	1.0			G3/500
BL	(0°-30°)	1724.6	5.5	B3/2500		
BM	(30°-60°)	3594.6	11.5	B3/5000		
BH	(60°-80°)	2031.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	221.2	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1
2.5°	4229.0	4227.2	4232.5	4227.2	4230.7	4218.6	4213.3	4216.8	4211.6	4202.9	4187.3
5°	4281.1	4279.4	4281.1	4274.2	4277.6	4270.7	4258.5	4262.0	4253.3	4234.2	4211.6
7.5°	4369.7	4362.8	4362.8	4361.0	4354.1	4343.7	4335.0	4331.5	4322.8	4298.5	4263.7
10°	4484.4	4484.4	4486.1	4472.2	4480.9	4461.8	4453.1	4451.4	4421.8	4390.6	4341.9
12.5°	4635.6	4644.2	4639.0	4632.1	4628.6	4621.7	4592.1	4599.1	4566.1	4512.2	4453.1
15°	4823.2	4837.1	4828.4	4824.9	4816.2	4790.2	4778.0	4772.8	4729.4	4651.2	4573.0
17.5°	5071.7	5054.3	5047.3	5038.6	5002.2	4983.0	4962.2	4958.7	4920.5	4828.4	4706.8
20°	5288.8	5313.2	5299.3	5290.6	5254.1	5217.6	5202.0	5196.8	5163.7	5063.0	4868.4
22.5°	5547.7	5552.9	5558.1	5537.3	5519.9	5492.1	5464.3	5455.6	5443.5	5339.2	5101.2
25°	5824.0	5844.8	5827.5	5806.6	5785.8	5784.0	5810.1	5806.6	5801.4	5700.6	5410.5
27.5°	6274.0	6293.1	6298.3	6275.7	6195.8	6202.7	6261.8	6280.9	6360.9	6194.1	5808.3
30°	6527.6	6546.8	6590.2	6675.3	6802.2	6913.4	7055.8	7099.3	7175.7	6861.2	6280.9
32.5°	6684.0	6691.0	6769.2	6927.3	7307.8	7723.0	8110.5	8126.1	8174.8	7733.4	6713.6
35°	6930.7	6936.0	6998.5	7172.2	7618.8	8310.3	8909.7	8928.8	8888.9	8004.5	6915.1
37.5°	7234.8	7248.7	7288.7	7432.9	7966.3	8802.0	9241.6	9227.7	8873.2	8219.9	7271.3
40°	7677.8	7677.8	7630.9	7825.5	8332.9	9083.5	9358.0	9333.7	9239.8	8843.7	7813.4
42.5°	8068.8	8061.8	8173.0	8305.1	8791.6	9517.8	9846.2	9886.2	10040.8	9627.3	8430.2
45°	8577.9	8609.1	8671.7	8911.4	9571.7	10259.7	10683.7	10721.9	10940.8	10549.9	9151.2
47.5°	9092.1	9102.6	9298.9	9618.6	10537.7	11265.7	11613.2	11675.8	11875.6	11628.8	9927.9
50°	9457.0	9556.0	9870.5	10374.4	11533.3	12492.4	12763.4	12838.1	13190.8	12803.4	10833.1
52.5°	9842.7	9940.0	10324.0	11092.0	12676.5	13746.8	14080.4	14130.8	14497.4	13991.8	11759.1
55°	10172.8	10263.2	10699.3	11727.9	13587.0	15027.3	15632.0	15572.9	15748.4	14907.4	12473.2
57.5°	10226.7	10299.7	10848.7	12134.4	14271.5	16125.4	16992.4	17027.1	16823.9	15592.0	13062.2
60°	9809.7	9959.1	10589.8	12091.0	14579.1	16889.9	18007.1	18031.4	17454.6	15943.0	13296.8
62.5°	9071.3	9055.7	9818.4	11392.5	14148.2	17063.6	18604.8	18578.7	17701.3	15774.4	13069.2
64°	8051.4	8239.0	8951.4	10534.2	13453.2	16796.1	18667.3	18653.4	17583.1	15423.5	12681.7
65°	7429.4	7419.0	8122.6	9832.3	12761.7	16393.0	18556.1	18537.0	17336.4	15109.0	12381.2
67.5°	5363.5	5387.9	6082.9	7587.5	10374.4	14817.1	17831.6	17760.3	16363.4	14066.5	11237.9
70°	3249.1	3263.0	3808.5	5033.4	7446.8	11978.1	16073.3	16076.7	14874.4	12509.7	9564.7
72.5°	1711.4	1747.9	1966.8	2858.1	4522.6	8404.1	13039.7	13348.9	12770.4	10676.7	7556.2
75°	952.1	957.3	1112.0	1409.1	2307.4	4703.3	9801.0	9889.6	10110.3	8593.5	5587.7
77.5°	726.3	736.7	785.3	910.4	1256.2	2180.5	5931.7	6376.5	7125.3	6058.5	3188.2
80°	589.0	599.4	641.1	715.8	835.7	1033.8	2755.6	2995.4	3813.7	2689.6	1244.0
82.5°	458.7	451.7	505.6	554.3	608.1	611.6	1131.1	1251.0	1553.3	1157.2	538.6
85°	340.5	340.5	384.0	373.6	392.7	357.9	498.7	550.8	622.0	491.7	250.2
87.5°	135.5	149.4	251.9	225.9	175.5	140.7	184.2	194.6	215.4	192.9	104.2
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°	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1
2.5°	4189.0	4194.2	4182.1	4173.4	4169.9	4164.7	4159.5	4161.2	4168.2	4175.1	4173.4
5°	4209.9	4211.6	4190.8	4180.3	4173.4	4166.4	4166.4	4171.6	4185.5	4196.0	4196.0
7.5°	4262.0	4262.0	4232.5	4213.3	4202.9	4190.8	4187.3	4189.0	4199.4	4213.3	4215.1
10°	4343.7	4336.7	4298.5	4268.9	4249.8	4220.3	4194.2	4180.3	4185.5	4194.2	4194.2
12.5°	4442.7	4423.6	4374.9	4335.0	4288.1	4232.5	4178.6	4150.8	4149.1	4157.7	4154.3
15°	4548.7	4527.8	4460.1	4387.1	4305.4	4223.8	4159.5	4119.5	4088.3	4079.6	4098.7
17.5°	4672.0	4628.6	4534.8	4434.0	4312.4	4206.4	4105.6	4024.0	3968.4	3952.7	3957.9
20°	4821.5	4764.1	4637.3	4479.2	4307.2	4143.8	3987.5	3878.0	3787.7	3759.9	3763.3
22.5°	5028.2	4929.2	4743.3	4501.8	4263.7	4025.7	3808.5	3666.0	3556.6	3513.1	3539.2
25°	5262.8	5155.1	4844.0	4496.6	4150.8	3836.3	3596.5	3410.6	3311.6	3247.3	3261.2
27.5°	5585.9	5394.8	4951.8	4449.6	3989.2	3605.2	3327.2	3151.8	3061.4	3028.4	3044.0
30°	5999.5	5705.8	5068.2	4322.8	3733.8	3313.3	3056.2	2941.5	2887.7	2846.0	2859.9
32.5°	6298.3	5924.7	5094.2	4109.1	3457.6	3047.5	2872.0	2786.9	2727.8	2687.9	2696.5
35°	6512.0	6110.7	5082.1	3846.7	3169.1	2828.6	2726.1	2656.6	2561.0	2474.1	2458.5
37.5°	6798.7	6343.5	4993.5	3560.1	2884.2	2680.9	2607.9	2479.4	2342.1	2225.7	2220.5
40°	7238.3	6616.3	4804.1	3223.0	2640.9	2571.4	2482.8	2316.0	2168.4	2074.5	2067.6
42.5°	7691.7	6868.2	4546.9	2868.6	2441.1	2456.8	2349.0	2184.0	2093.6	2032.8	2025.9
45°	8246.0	7141.0	4268.9	2561.0	2293.5	2349.0	2232.6	2137.1	2083.2	2043.3	2032.8
47.5°	8845.4	7420.7	3956.2	2284.8	2168.4	2250.0	2184.0	2140.6	2111.0	2083.2	2071.1
50°	9491.8	7733.4	3662.6	2062.4	2055.4	2147.5	2178.8	2163.1	2145.8	2137.1	2126.7
52.5°	10200.6	8053.1	3415.9	1906.0	1956.4	2074.5	2180.5	2192.7	2192.7	2187.5	2180.5
55°	10680.2	8275.5	3165.7	1779.2	1855.6	2015.5	2177.0	2224.0	2241.3	2234.4	2227.4
57.5°	11034.6	8397.2	2851.2	1669.7	1770.5	1958.1	2157.9	2227.4	2244.8	2253.5	2250.0
60°	11107.6	8284.2	2439.4	1555.0	1678.4	1874.7	2088.4	2175.3	2197.9	2251.8	2257.0
62.5°	10779.2	7936.7	2029.4	1442.1	1565.5	1747.9	1994.6	2116.2	2161.4	2244.8	2253.5
64°	10376.1	7547.5	1801.7	1370.9	1492.5	1676.7	1947.7	2100.6	2159.7	2270.9	2277.8
65°	10080.8	7264.3	1659.3	1325.7	1445.6	1629.7	1921.6	2105.8	2175.3	2310.8	2321.3
67.5°	8993.1	6289.6	1372.6	1219.7	1334.4	1549.8	1926.8	2149.2	2171.8	2326.5	2324.7
70°	7441.6	5007.4	1150.2	1122.4	1226.6	1485.5	1906.0	2079.7	2081.5	2184.0	2159.7
72.5°	5572.0	3700.8	997.3	1021.6	1106.8	1332.6	1800.0	1985.9	1956.4	1970.3	1946.0
75°	3827.6	2448.1	858.3	913.9	981.7	1178.0	1650.6	1803.5	1756.6	1739.2	1721.8
77.5°	2043.3	1353.5	714.1	807.9	853.1	1018.2	1440.4	1588.0	1539.4	1471.6	1449.0
80°	827.0	637.6	575.1	668.9	695.0	820.1	1198.8	1290.9	1254.4	1136.3	1098.1
82.5°	415.3	382.2	451.7	526.5	528.2	585.5	891.3	978.2	896.5	752.3	719.3
85°	217.2	224.1	311.0	370.1	326.6	316.2	535.1	592.5	543.8	472.6	425.7
87.5°	78.2	90.3	163.3	161.6	114.7	60.8	118.1	57.3	31.3	19.1	24.3
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)