

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: P459148

Luminaire Tested: **GALN-SA6B-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31363 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

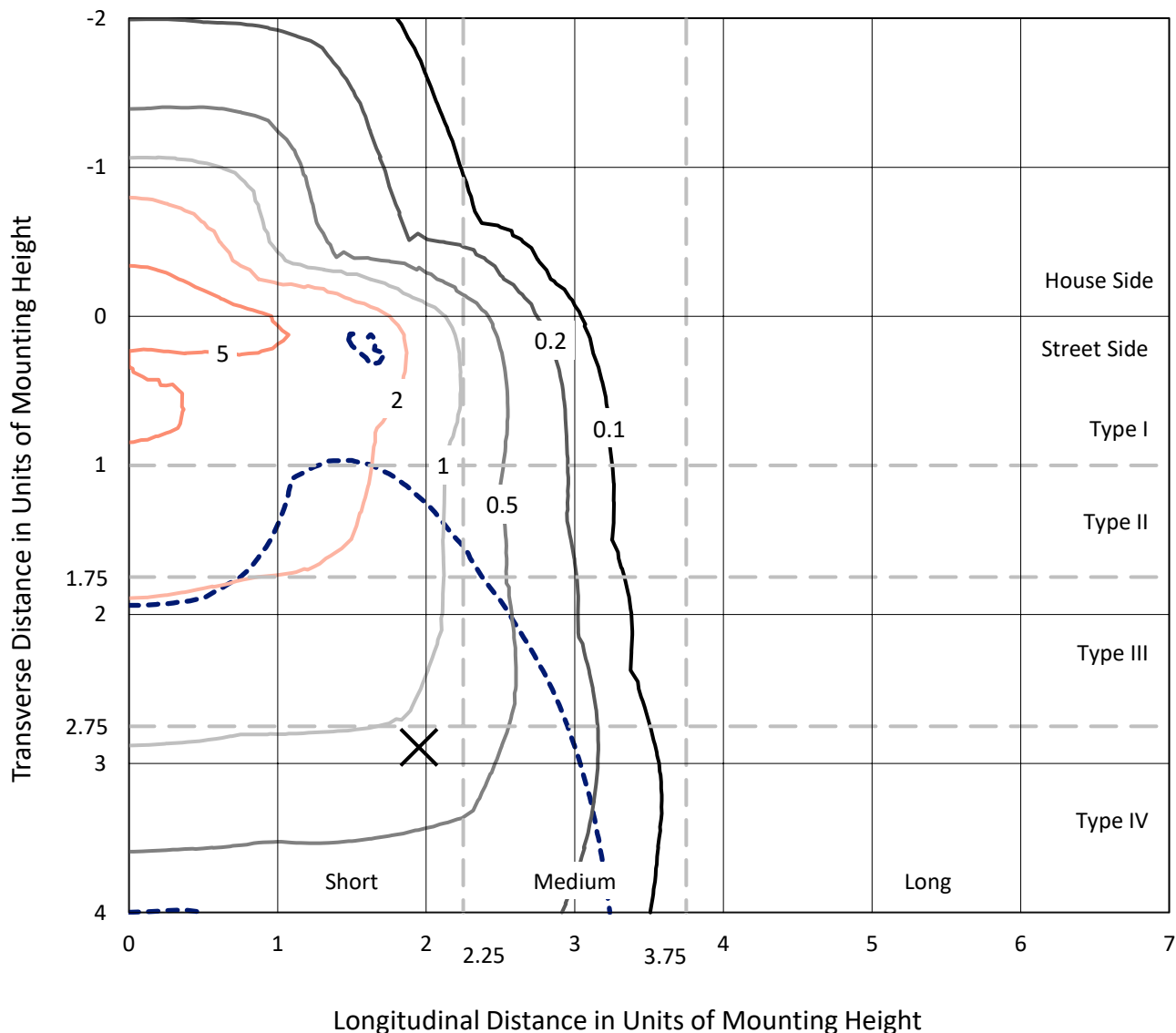
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

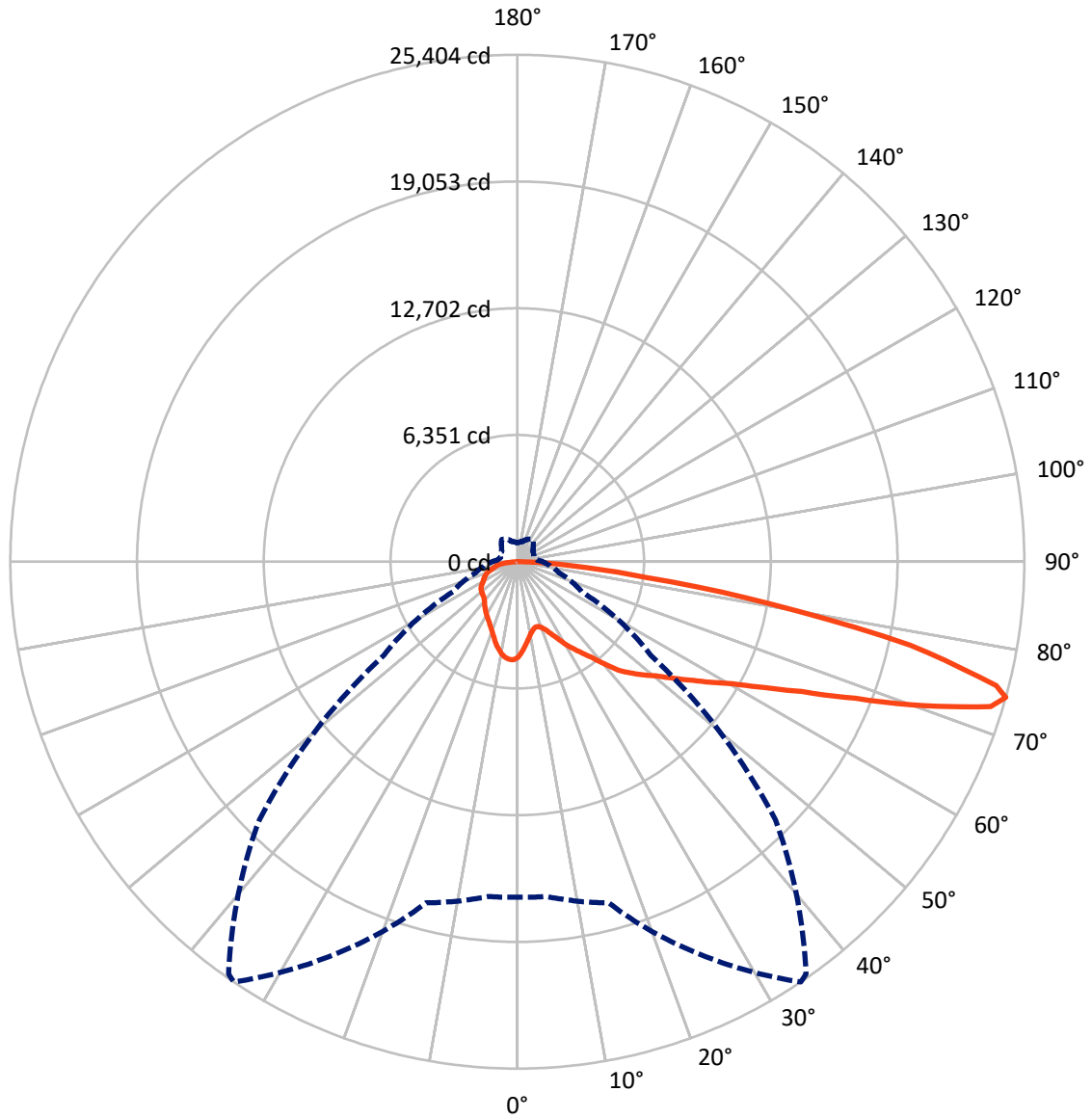
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6674.3	0.0	6674.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	24688.7	0.0	24688.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	31363.0	0.0	31363.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.5	1.4
10°-20°	1192.1	3.8
20°-30°	1965.5	6.3
30°-40°	2944.2	9.4
40°-50°	4280.0	13.6
50°-60°	5978.1	19.1
60°-70°	7484.3	23.9
70°-80°	6188.9	19.7
80°-90°	894.3	2.9
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°	31363.0	100.0
0°-180°	31363.0	100.0



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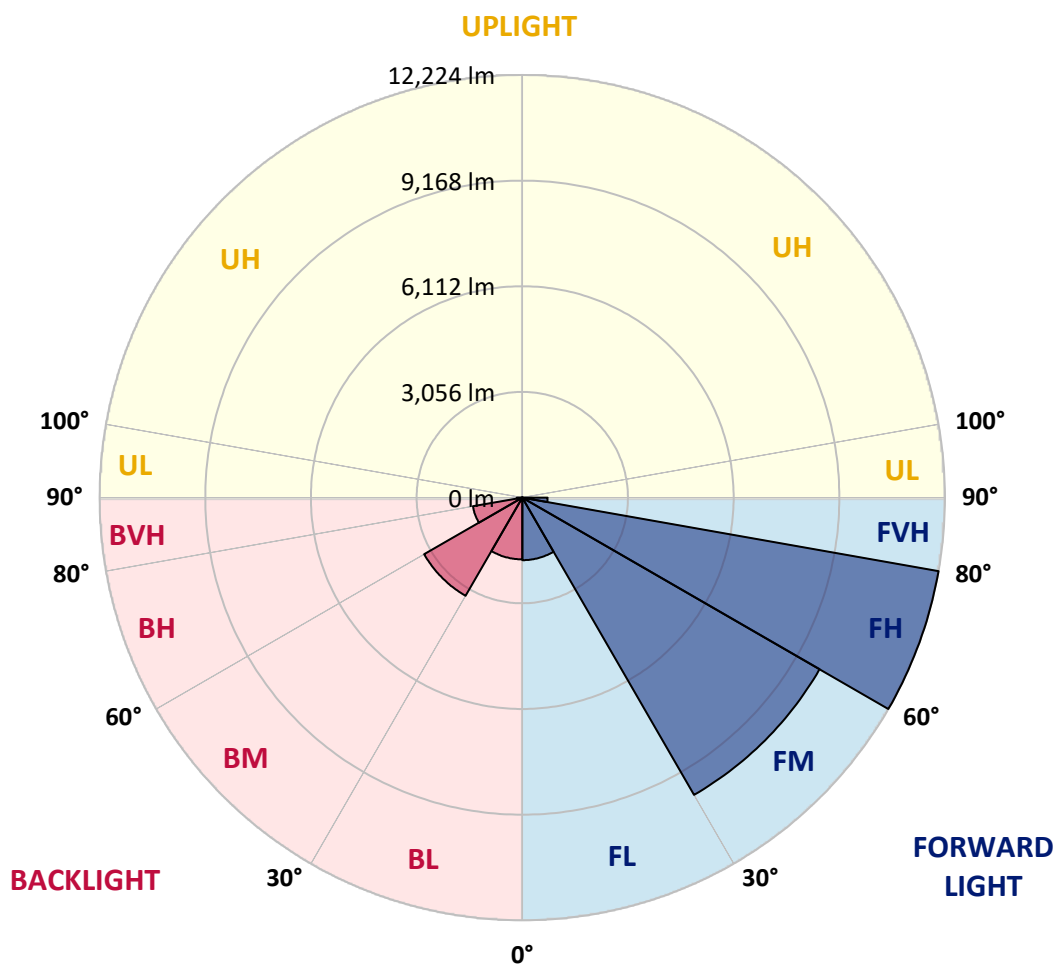
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1807.9	5.8			
FM (30°-60°)	9924.5	31.6			
FH (60°-80°)	12223.6	39.0			G5
FVH (80°-90°)	732.6	2.3			G4/750
BL (0°-30°)	1785.3	5.7	B3/2500		
BM (30°-60°)	3277.8	10.5	B3/5000		
BH (60°-80°)	1449.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	161.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4788.5	4788.5	4788.5	4788.5	4788.5	4788.5	4788.5	4788.5	4788.5	4788.5	4788.5
2.5°	4425.4	4448.0	4460.1	4503.6	4514.0	4527.9	4564.4	4613.0	4675.6	4731.2	4779.8
5°	4057.0	4091.8	4112.6	4150.9	4225.6	4232.5	4329.8	4441.0	4567.8	4686.0	4783.3
7.5°	3707.8	3746.0	3763.4	3832.9	3931.9	3947.6	4090.0	4265.5	4477.5	4656.5	4805.9
10°	3445.4	3464.5	3502.8	3554.9	3673.0	3683.5	3869.4	4103.9	4378.5	4642.6	4844.1
12.5°	3303.0	3313.4	3322.1	3377.7	3494.1	3509.7	3704.3	3970.2	4300.3	4653.0	4906.7
15°	3323.8	3327.3	3289.1	3299.5	3393.3	3415.9	3608.8	3881.5	4251.6	4679.0	5000.5
17.5°	3499.3	3487.1	3393.3	3344.7	3410.7	3421.1	3589.6	3846.8	4229.0	4727.7	5097.8
20°	3775.6	3758.2	3596.6	3488.9	3527.1	3535.8	3652.2	3872.9	4251.6	4807.6	5248.9
22.5°	4119.6	4112.6	3867.6	3737.3	3735.6	3735.6	3796.4	3966.7	4319.4	4917.1	5407.1
25°	4600.9	4564.4	4244.7	4076.1	4029.2	4025.8	4018.8	4121.3	4406.3	5033.5	5594.7
27.5°	5094.3	5031.8	4746.8	4487.9	4387.2	4375.0	4329.8	4340.2	4517.5	5165.5	5808.4
30°	5537.4	5497.4	5229.8	4943.1	4823.3	4795.5	4670.4	4613.0	4703.4	5403.6	6149.0
32.5°	5876.2	5851.9	5643.4	5382.7	5205.5	5200.3	5017.9	4970.9	4993.5	5692.0	6538.2
35°	6150.7	6159.4	6053.4	5827.5	5624.2	5594.7	5473.1	5414.0	5348.0	6109.0	7028.1
37.5°	6526.0	6545.1	6538.2	6343.6	6095.1	6102.0	6074.2	5976.9	5801.5	6574.6	7572.0
40°	6939.5	6953.4	6951.7	6877.0	6746.7	6753.6	6743.2	6632.0	6369.6	7167.1	8176.6
42.5°	7511.1	7445.1	7273.1	7347.8	7424.3	7457.3	7528.5	7422.5	7062.9	7799.6	8744.8
45°	8150.5	8025.4	7636.2	7671.0	7954.2	8016.8	8409.4	8263.5	7815.2	8525.8	9413.7
47.5°	8553.6	8430.3	8101.9	8094.9	8470.2	8531.1	9226.0	9172.2	8499.8	9309.4	10230.3
50°	8913.3	8895.9	8525.8	8614.5	8981.1	9071.4	10115.6	10065.3	9182.6	10233.8	11119.9
52.5°	9446.7	9306.0	9010.6	9193.0	9677.8	9795.9	10998.3	10850.6	9809.8	11050.4	11983.4
55°	9686.5	9653.5	9636.1	9794.2	10459.7	10544.8	11856.6	11517.8	10345.0	11741.9	12640.2
57.5°	10327.6	10266.8	10438.8	10546.5	11380.5	11510.8	12753.1	12214.5	10814.1	12291.0	12959.9
60°	11158.1	11125.1	11283.2	11477.8	12409.1	12607.2	13774.8	12808.7	11191.1	12567.2	12784.4
62.5°	12398.7	12395.2	12365.7	12782.7	13866.9	14049.3	14947.6	13387.3	11250.2	12360.5	11877.5
65°	14177.9	14115.3	13858.2	14313.4	15680.8	15894.5	16169.0	13710.5	10894.0	11298.9	10001.0
67.5°	16038.7	16035.3	15826.8	16417.5	18285.3	18506.0	17696.3	13639.3	9905.4	9153.1	7102.8
70°	17581.6	17506.9	17772.7	19346.9	21612.6	21868.0	19032.4	12800.1	7889.9	6044.7	4220.4
72.5°	17951.7	17955.2	18507.7	21605.6	24807.8	24847.8	19513.7	10374.5	5280.2	3334.2	2111.0
74°	16811.9	16841.4	17698.0	21718.6	25403.8	25223.1	18283.6	8154.0	3570.5	2177.1	1522.0
75°	15345.5	15159.6	16398.4	20966.2	24785.2	24590.6	16843.2	6543.4	2724.4	1739.2	1332.7
77.5°	8204.4	8393.8	10305.0	15646.1	20135.7	19911.6	11420.5	3137.9	1471.7	1211.0	959.1
80°	2920.7	3221.3	4527.9	8187.0	12909.5	12979.0	5450.5	1438.6	1035.5	893.1	677.6
82.5°	1191.9	1224.9	1944.2	3633.1	6555.5	6618.1	2225.7	854.8	740.2	615.1	404.8
85°	465.6	479.5	860.1	1633.2	2797.4	2979.8	769.7	451.7	455.2	352.7	206.8
87.5°	156.4	177.2	352.7	543.8	950.4	931.3	224.1	133.8	163.3	152.9	64.3
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°	4788.5	4788.5	4788.5	4788.5	4788.5	4788.5	4788.5	4788.5	4788.5	4788.5	4788.5
2.5°	4804.1	4837.2	4859.7	4884.1	4906.7	4913.6	4908.4	4924.0	4925.8	4927.5	4929.2
5°	4831.9	4877.1	4920.6	4944.9	4955.3	4946.6	4917.1	4901.4	4887.5	4877.1	4880.6
7.5°	4870.2	4934.5	4974.4	4984.8	4957.0	4917.1	4844.1	4786.8	4750.3	4726.0	4724.2
10°	4929.2	4991.8	5024.8	4995.3	4918.8	4821.5	4706.8	4599.1	4517.5	4493.1	4491.4
12.5°	5004.0	5075.2	5073.5	4986.6	4852.8	4679.0	4493.1	4368.0	4256.8	4201.2	4223.8
15°	5101.3	5155.1	5104.7	4948.4	4736.4	4498.3	4269.0	4098.7	3973.6	3914.6	3918.0
17.5°	5214.2	5261.1	5127.3	4880.6	4573.1	4267.3	4001.4	3839.8	3740.8	3697.4	3693.9
20°	5354.9	5368.8	5127.3	4762.4	4362.8	3998.0	3744.3	3631.3	3575.7	3553.2	3560.1
22.5°	5506.1	5478.3	5099.5	4595.6	4086.6	3716.5	3546.2	3495.8	3468.0	3464.5	3468.0
25°	5676.4	5598.2	5042.2	4369.8	3798.1	3473.2	3374.2	3382.9	3388.1	3388.1	3400.3
27.5°	5884.9	5728.5	4946.6	4084.8	3461.1	3247.4	3219.6	3280.4	3308.2	3313.4	3322.1
30°	6159.4	5871.0	4788.5	3728.6	3174.4	3044.1	3092.7	3174.4	3205.7	3224.8	3221.3
32.5°	6486.0	6027.3	4574.8	3372.5	2943.3	2901.6	2960.7	3044.1	3078.8	3089.2	3075.3
35°	6870.0	6204.6	4293.3	3038.9	2741.8	2766.1	2835.6	2861.6	2892.9	2892.9	2899.9
37.5°	7283.5	6347.0	3949.3	2733.1	2585.4	2674.0	2724.4	2700.1	2686.2	2668.8	2677.5
40°	7704.0	6453.0	3502.8	2430.7	2429.0	2578.4	2592.3	2522.8	2467.2	2449.9	2441.2
42.5°	8070.6	6519.0	3099.7	2196.2	2281.3	2484.6	2495.0	2383.8	2295.2	2243.1	2225.7
45°	8503.3	6595.5	2705.3	2001.6	2144.1	2409.9	2436.0	2286.5	2156.2	2046.8	2019.0
47.5°	9095.7	6769.2	2394.3	1850.4	2045.0	2363.0	2399.5	2206.6	2034.6	1892.1	1869.5
50°	9764.7	7007.3	2152.7	1747.9	1968.6	2321.3	2366.5	2124.9	1921.7	1763.5	1746.2
52.5°	10378.0	7135.9	1944.2	1655.8	1893.9	2244.8	2323.0	2065.9	1810.5	1635.0	1619.3
55°	10713.3	6927.4	1739.2	1565.5	1791.3	2145.8	2262.2	1984.2	1702.7	1567.2	1544.6
57.5°	10758.5	6496.5	1553.3	1468.2	1683.6	2024.2	2149.3	1885.2	1633.2	1520.3	1501.2
60°	10409.3	5853.6	1409.1	1388.3	1574.2	1886.9	2022.4	1798.3	1562.0	1468.2	1449.1
62.5°	9540.5	5155.1	1308.3	1315.3	1463.0	1742.7	1928.6	1714.9	1494.2	1410.8	1393.5
65°	8046.3	4255.1	1211.0	1240.6	1363.9	1629.8	1843.5	1645.4	1426.5	1367.4	1351.8
67.5°	5589.5	3071.9	1131.1	1162.4	1270.1	1515.1	1744.4	1570.7	1350.0	1318.8	1294.4
70°	3094.5	1890.4	1037.3	1073.8	1172.8	1386.5	1633.2	1457.8	1238.8	1224.9	1190.2
72.5°	1626.3	1204.1	931.3	971.3	1040.8	1221.5	1463.0	1334.4	1129.4	1070.3	1025.1
74°	1270.1	986.9	860.1	901.8	948.7	1124.2	1362.2	1245.8	1051.2	981.7	946.9
75°	1106.8	879.2	799.2	853.1	894.8	1058.1	1284.0	1183.2	1007.7	941.7	910.4
77.5°	781.9	658.5	653.3	717.6	740.2	927.8	1157.2	1077.2	898.3	828.8	799.2
80°	549.0	493.4	517.8	557.7	589.0	820.1	1073.8	931.3	736.7	655.0	644.6
82.5°	357.9	323.2	370.1	406.6	417.0	604.6	867.0	707.2	536.9	436.1	404.8
85°	165.1	161.6	212.0	206.8	205.0	295.4	514.3	413.5	309.3	231.1	217.2
87.5°	41.7	40.0	52.1	43.4	52.1	45.2	46.9	12.2	1.7	0.0	0.0
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)