

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: P531490

Luminaire Tested: **GALN-SA6D-735-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531490  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-735-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35844 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

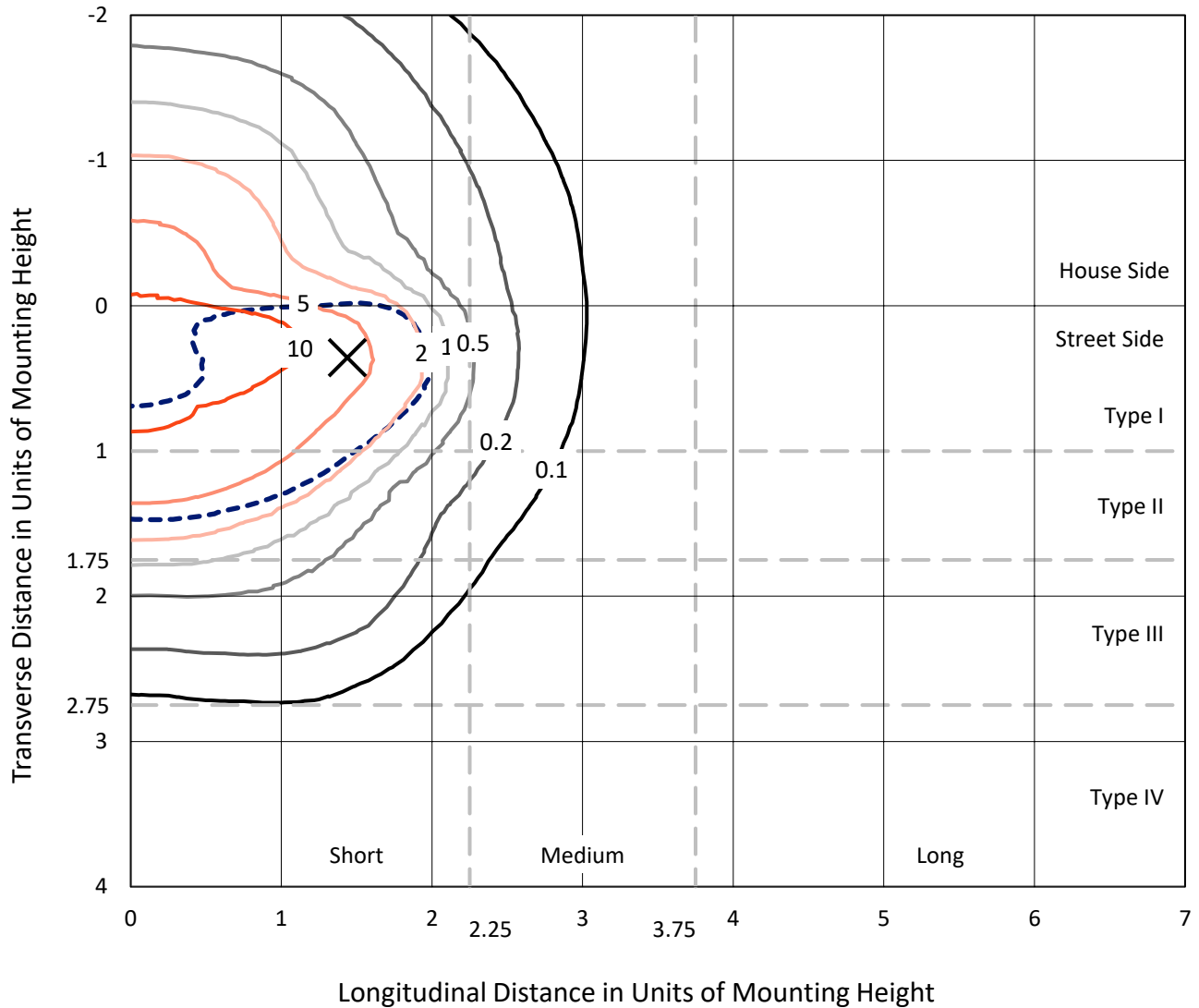
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

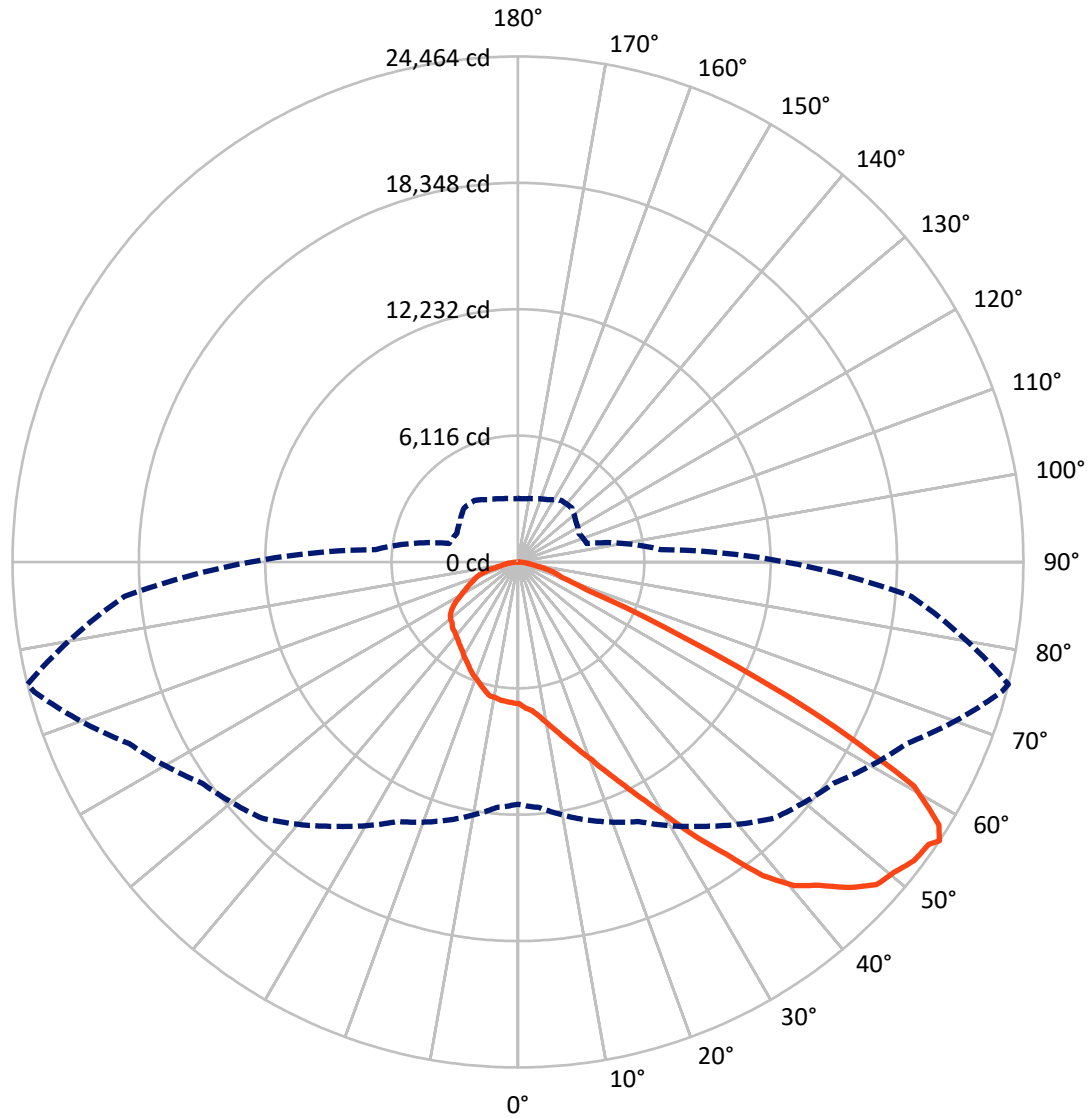
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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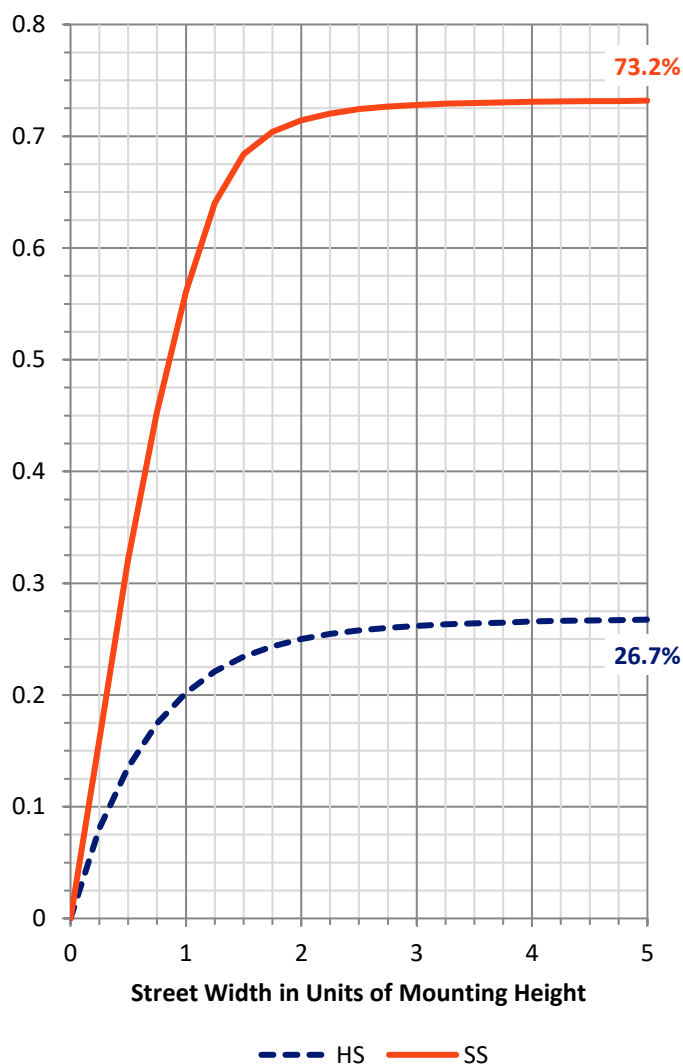
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9637.4	0.0	9637.4
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	26206.6	0.0	26206.6
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	35844.0	0.0	35844.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	680.1	1.9
10°-20°	2136.5	6.0
20°-30°	3736.5	10.4
30°-40°	5850.3	16.3
40°-50°	8510.5	23.7
50°-60°	9353.6	26.1
60°-70°	4175.0	11.6
70°-80°	1205.9	3.4
80°-90°	195.6	0.5
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°	35844.0	100.0
0°-180°	35844.0	100.0

**Coefficient of Utilization**

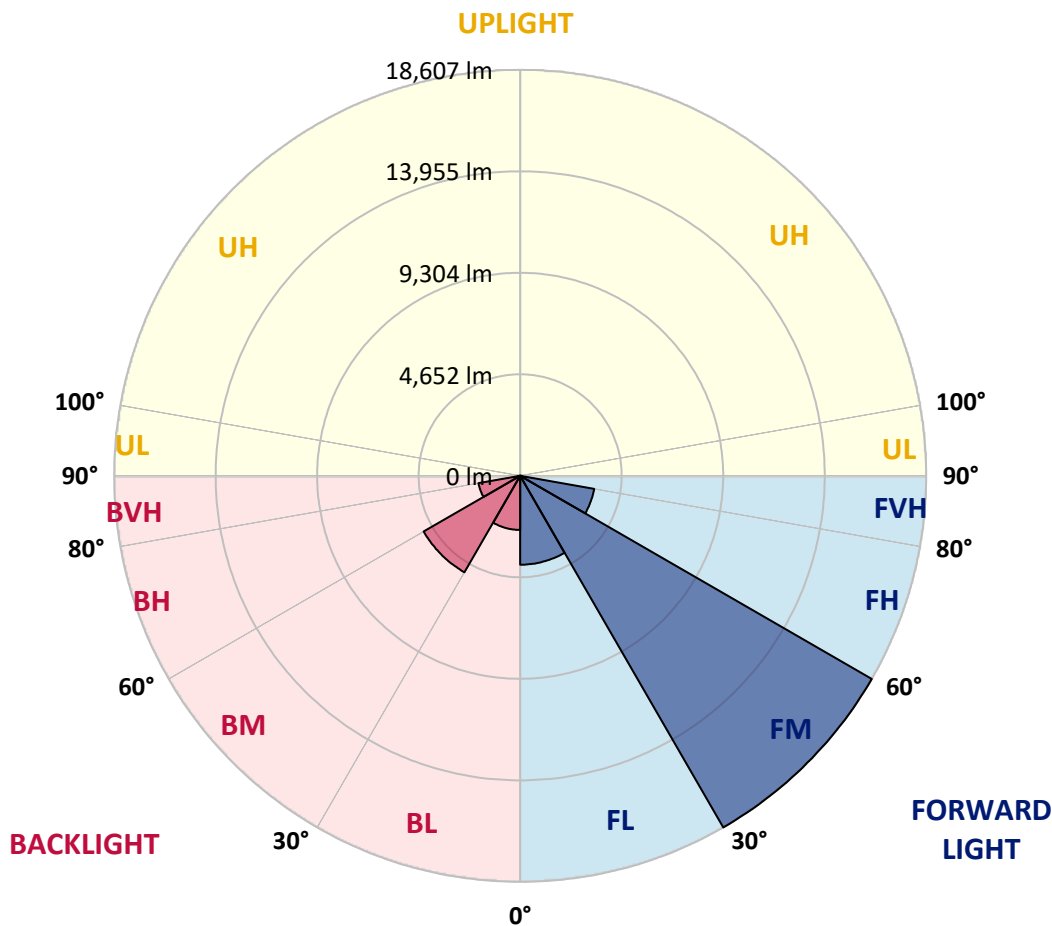


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4073.3	11.4			
FM (30°-60°)	18607.3	51.9			
FH (60°-80°)	3441.9	9.6			G2/5000
FVH (80°-90°)	84.2	0.2			G1/100
BL (0°-30°)	2479.9	6.9	B3/2500		
BM (30°-60°)	5107.0	14.2	B4/8500		
BH (60°-80°)	1939.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	111.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6858.3	6858.3	6858.3	6858.3	6858.3	6858.3	6858.3	6858.3	6858.3	6858.3	6858.3
2.5°	7555.3	7434.5	7425.2	7392.6	7411.2	7327.6	7239.3	7123.1	7002.3	7076.7	6900.1
5°	8085.0	7922.3	7987.4	7875.9	7889.8	7778.3	7597.1	7462.3	7313.6	7225.4	7099.9
7.5°	8270.8	8284.8	8331.2	8312.7	8219.7	8219.7	8098.9	7861.9	7601.7	7550.6	7341.5
10°	8521.7	8526.4	8475.3	8489.2	8619.3	8558.9	8452.1	8349.8	8015.3	7954.9	7583.1
12.5°	8610.0	8526.4	8610.0	8684.4	8837.7	8921.4	8898.1	8823.8	8466.0	8424.2	7880.5
15°	8624.0	8572.9	8642.6	8809.8	8944.6	9297.7	9474.3	9423.2	8949.2	8953.9	8215.1
17.5°	8558.9	8628.6	8656.5	8800.5	9111.9	9441.8	9952.9	10022.6	9632.3	9571.9	8637.9
20°	8647.2	8596.1	8633.3	8763.4	9176.9	9692.7	10361.8	10821.8	10273.5	10231.7	9074.7
22.5°	8986.4	8916.7	8907.4	8991.0	9288.4	9822.8	10793.9	11621.0	11054.1	11077.3	9618.3
25°	9251.3	9288.4	9255.9	9251.3	9437.1	10017.9	11365.4	12573.5	12113.5	11978.8	10259.6
27.5°	9706.6	9794.9	9729.8	9818.1	9776.3	10310.7	11774.3	13628.3	13256.6	13075.4	10840.4
30°	10338.5	10385.0	10324.6	10324.6	10199.1	10719.6	12146.0	14729.5	14576.2	14329.9	11523.4
32.5°	11170.3	11240.0	11119.2	11049.5	11030.9	11328.3	12815.2	15816.8	16077.0	15867.9	12429.5
35°	12271.5	12229.7	12085.6	12020.6	11769.7	12262.2	13809.5	17066.7	17749.8	17378.0	13526.1
37.5°	13242.6	13177.6	13168.3	12805.9	12866.3	13270.5	14655.2	18014.6	19371.4	19264.5	14683.1
40°	14148.7	14209.1	14306.7	14102.2	14009.3	14455.4	15640.2	18739.5	20630.6	20588.8	15575.2
42.5°	15119.8	15064.1	15236.0	15064.1	14924.7	15556.6	16708.9	19241.3	21736.5	21392.7	16509.1
45°	16527.7	16351.2	16411.6	16425.5	16323.3	16555.6	17150.4	19603.7	22512.5	22475.3	17192.2
47.5°	17703.3	17708.0	17605.7	17526.7	17215.4	17447.7	17642.9	19831.4	23404.6	23344.2	17457.0
50°	18140.1	18079.7	18377.1	18549.0	18567.6	18093.6	18028.6	19956.9	23873.9	23609.1	17721.9
52.5°	16569.6	16625.3	17094.6	18116.8	18707.0	18758.1	18479.3	20217.1	24064.4	24008.7	17935.6
55°	13335.6	13605.1	14376.4	15556.6	16955.2	18493.2	18967.2	20486.6	24166.6	24120.2	18883.5
56°	11723.2	11932.3	12936.0	13860.6	15617.0	17531.4	18660.5	20774.7	24245.6	24464.0	19106.6
57.5°	9437.1	9678.7	10399.0	11449.1	13521.4	15700.6	17814.8	20421.5	23939.0	24022.6	19269.2
60°	5901.1	5924.3	6788.6	7480.9	8939.9	11068.1	13595.8	17768.4	22154.7	22033.9	17308.4
62.5°	3870.6	3875.2	4660.5	5227.4	5891.8	6379.7	8001.3	11783.6	16346.5	16132.8	12322.6
65°	2718.2	2778.6	3387.3	4144.7	4414.2	4158.7	4107.5	6212.4	9130.4	8823.8	6621.3
67.5°	1988.7	1993.4	2532.4	3345.5	3735.8	3164.3	2569.5	3034.2	3615.0	3605.7	3066.7
70°	1315.0	1370.7	1784.3	2499.8	2945.9	2541.7	2100.2	2169.9	2300.0	2300.0	2281.4
72.5°	766.7	817.8	1091.9	1584.5	1654.2	1589.1	1663.5	1858.6	1942.3	1937.6	1914.4
75°	436.8	460.0	520.4	659.8	822.4	971.1	1222.0	1407.9	1491.5	1542.7	1482.2
77.5°	255.6	269.5	306.7	376.4	427.5	525.1	664.5	794.6	906.1	892.1	901.4
80°	134.7	134.7	171.9	223.0	297.4	371.7	441.4	515.8	576.2	590.1	604.0
82.5°	79.0	83.6	111.5	162.6	213.7	264.9	339.2	390.3	446.1	450.7	460.0
85°	41.8	46.5	69.7	106.9	144.0	162.6	167.3	158.0	171.9	162.6	185.9
87.5°	13.9	13.9	23.2	18.6	18.6	23.2	27.9	27.9	37.2	37.2	37.2
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°	6858.3	6858.3	6858.3	6858.3	6858.3	6858.3	6858.3	6858.3	6858.3	6858.3	6858.3
2.5°	6895.5	6895.5	6816.5	6667.8	6644.5	6584.1	6528.4	6523.7	6481.9	6444.7	6426.2
5°	7025.6	6881.5	6765.4	6630.6	6472.6	6398.3	6314.6	6221.7	6184.5	6221.7	6217.1
7.5°	7174.3	7053.4	6705.0	6454.0	6272.8	6198.5	6105.6	6008.0	6017.3	6017.3	5952.2
10°	7318.3	7155.7	6598.1	6277.5	6012.6	5956.9	5905.7	5942.9	5989.4	5998.7	5956.9
12.5°	7559.9	7192.8	6547.0	6100.9	5933.6	5812.8	5845.3	5947.6	6045.1	6017.3	6049.8
15°	7741.1	7225.4	6314.6	5919.7	5710.6	5766.4	5882.5	5952.2	6114.8	6096.3	6128.8
17.5°	7917.7	7244.0	6087.0	5678.1	5589.8	5743.1	5831.4	6031.2	6082.3	6193.8	6235.7
20°	8280.1	7281.1	5854.6	5529.4	5501.5	5678.1	5831.4	5924.3	6035.9	6133.4	6133.4
22.5°	8466.0	7262.5	5701.3	5334.2	5422.5	5534.0	5673.4	5831.4	5831.4	5924.3	5929.0
25°	8698.3	7188.2	5459.7	5241.3	5306.3	5413.2	5571.2	5515.4	5575.8	5575.8	5650.2
27.5°	8963.2	7030.2	5250.6	5074.0	5204.1	5320.3	5343.5	5306.3	5236.6	5227.4	5199.5
30°	9176.9	6835.1	5097.3	5018.3	5125.1	5190.2	5115.8	5036.8	4916.0	4906.7	4841.7
32.5°	9469.6	6593.4	4906.7	4878.9	4999.7	5004.3	4981.1	4860.3	4683.7	4609.4	4535.0
35°	9962.2	6454.0	4762.7	4804.5	4841.7	4827.8	4785.9	4655.8	4479.3	4446.7	4418.9
37.5°	10324.6	6351.8	4614.0	4665.1	4697.6	4716.2	4590.8	4446.7	4451.4	4386.3	4367.7
40°	10733.5	6286.8	4493.2	4516.4	4521.1	4581.5	4428.2	4358.5	4391.0	4349.2	4377.0
42.5°	11258.6	6305.4	4367.7	4349.2	4437.4	4414.2	4339.9	4246.9	4265.5	4140.1	4158.7
45°	11537.4	6430.8	4293.4	4209.8	4307.3	4302.7	4205.1	4116.8	4005.3	3763.7	3773.0
47.5°	11723.2	6463.3	4116.8	4061.1	4163.3	4223.7	4112.2	3907.7	3749.8	3577.8	3536.0
50°	11913.7	6523.7	4033.2	3917.0	3958.8	4102.9	3963.5	3768.3	3615.0	3461.7	3484.9
52.5°	12081.0	6639.9	3870.6	3698.6	3773.0	3931.0	3856.6	3619.7	3452.4	3326.9	3289.7
55°	12824.4	6900.1	3596.4	3373.4	3550.0	3749.8	3707.9	3419.9	3238.6	3173.6	3164.3
56°	12940.6	6909.4	3452.4	3261.9	3424.5	3689.4	3638.2	3331.6	3168.9	3066.7	3071.4
57.5°	12959.2	6797.9	3247.9	3159.6	3299.0	3601.1	3536.0	3261.9	3038.8	2945.9	2918.0
60°	11402.6	5306.3	2992.4	2936.6	3099.2	3331.6	3308.3	3071.4	2820.4	2713.6	2764.7
62.5°	7773.7	3889.2	2792.6	2783.3	2866.9	3094.6	3034.2	2820.4	2611.4	2541.7	2509.1
65°	4525.7	2950.6	2597.4	2560.2	2629.9	2750.8	2792.6	2569.5	2351.1	2304.7	2290.7
67.5°	2671.8	2439.4	2346.5	2286.1	2262.9	2337.2	2369.7	2239.6	2021.2	1956.2	2012.0
70°	2235.0	2169.9	2174.6	2072.4	2016.6	1965.5	1937.6	1821.4	1640.2	1556.6	1533.4
72.5°	1928.3	1900.4	1881.8	1788.9	1737.8	1621.6	1500.8	1384.7	1249.9	1180.2	1184.9
75°	1473.0	1463.7	1473.0	1426.5	1338.2	1245.3	1133.8	985.1	882.8	794.6	813.1
77.5°	878.2	906.1	920.0	901.4	864.3	780.6	710.9	613.3	515.8	446.1	436.8
80°	604.0	627.3	650.5	627.3	590.1	529.7	455.4	381.0	311.3	274.1	264.9
82.5°	460.0	483.2	497.2	473.9	427.5	362.4	311.3	260.2	204.4	167.3	158.0
85°	167.3	190.5	185.9	223.0	241.6	232.3	199.8	153.3	116.2	83.6	79.0
87.5°	46.5	41.8	46.5	46.5	46.5	41.8	37.2	37.2	37.2	23.2	18.6
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)