

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: P647024

Luminaire Tested: **GALN-SA6C-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19853 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

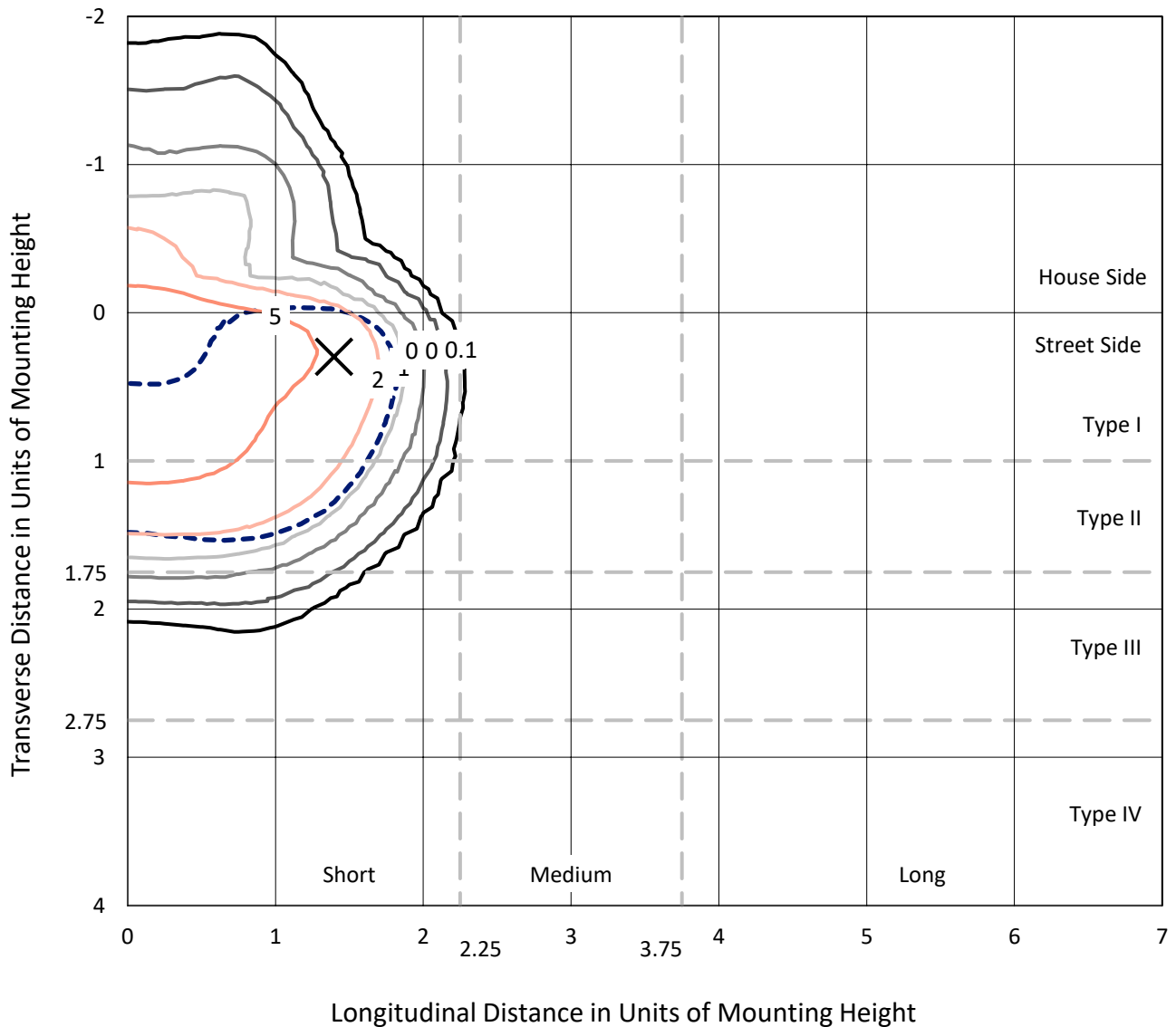
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

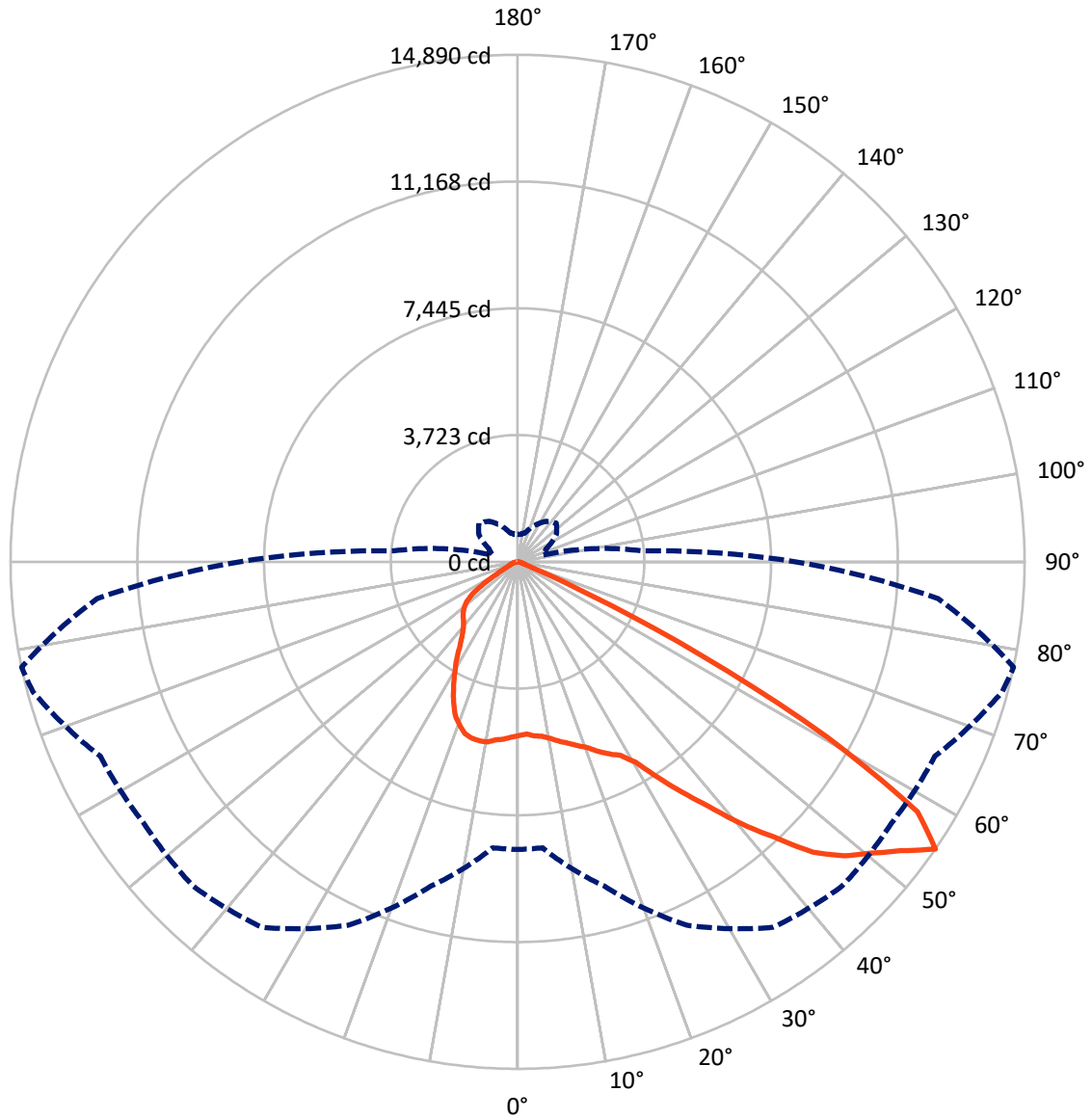
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical



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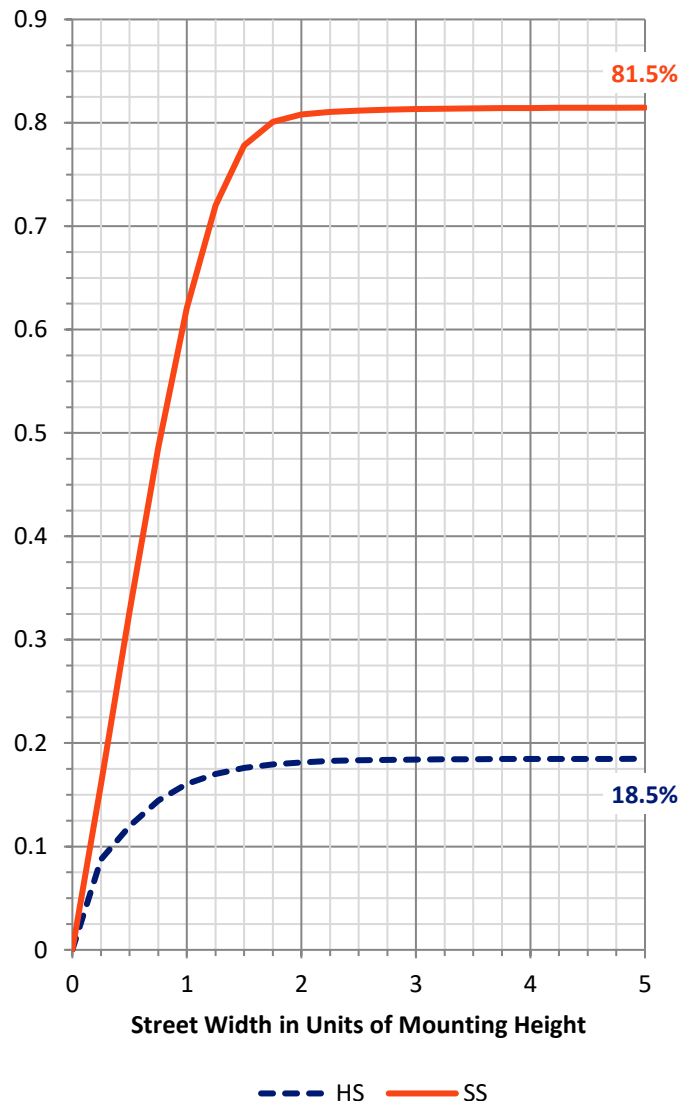
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3687.5	0.0	3687.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16165.5	0.0	16165.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	19853.0	0.0	19853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.1	2.3
10°-20°	1204.5	6.1
20°-30°	2111.3	10.6
30°-40°	3481.3	17.5
40°-50°	5065.7	25.5
50°-60°	5740.0	28.9
60°-70°	1641.2	8.3
70°-80°	127.4	0.6
80°-90°	26.5	0.1
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°	19853.0	100.0
0°-180°	19853.0	100.0

Coefficient of Utilization



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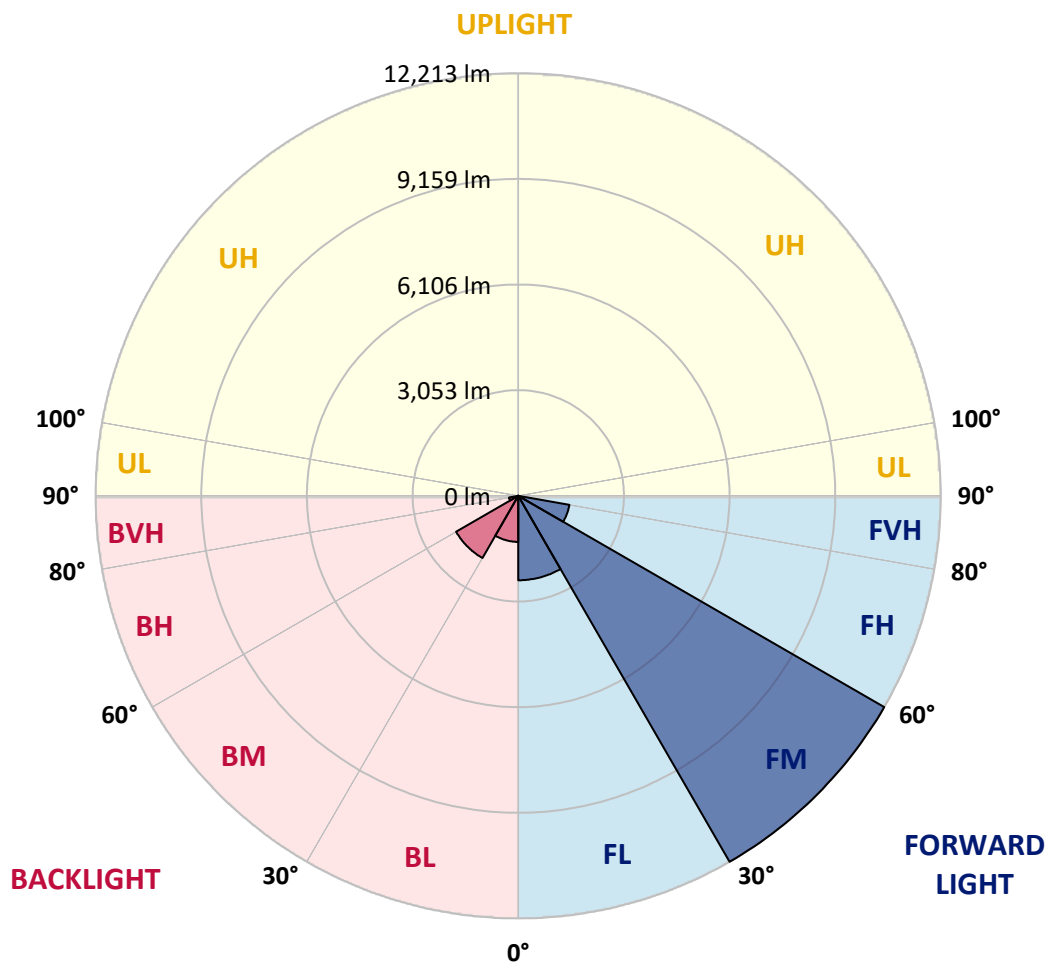
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2440.5	12.3			
FM (30°-60°)	12212.7	61.5			
FH (60°-80°)	1499.4	7.6			G1/1800
FVH (80°-90°)	12.9	0.1			G1/100
BL (0°-30°)	1330.4	6.7	B3/2500		
BM (30°-60°)	2074.3	10.4	B2/2500		
BH (60°-80°)	269.2	1.4	B1/500		G1/500
BVH (80°-90°)	13.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5104.2	5104.2	5104.2	5104.2	5104.2	5104.2	5104.2	5104.2	5104.2	5104.2	5104.2
2.5°	4798.9	4845.1	4852.2	4909.0	4905.4	5001.3	5029.7	5033.2	5097.1	5065.1	5146.8
5°	4664.1	4639.2	4628.5	4728.0	4756.3	4841.5	4912.5	4955.1	5086.4	5132.6	5217.8
7.5°	4543.4	4543.4	4550.5	4639.2	4628.5	4738.6	4813.2	4944.5	5136.2	5175.2	5278.1
10°	4426.2	4383.6	4436.9	4529.2	4607.3	4657.0	4813.2	4937.4	5161.0	5274.6	5416.6
12.5°	4365.9	4387.2	4394.3	4461.8	4547.0	4696.0	4781.2	4987.1	5338.5	5405.9	5558.5
15°	4745.7	4703.1	4600.2	4539.8	4610.9	4681.8	4894.8	5104.2	5430.7	5526.6	5697.0
17.5°	5185.8	5150.3	5065.1	4901.9	4742.2	4873.5	5040.3	5232.0	5530.2	5672.1	5924.2
20°	5760.8	5704.1	5618.9	5299.4	5161.0	5019.0	5196.5	5423.7	5693.4	5821.2	6080.3
22.5°	6445.9	6445.9	6254.3	5867.3	5579.8	5445.0	5519.5	5650.8	5874.5	6048.4	6303.9
25°	7159.4	7138.1	6964.2	6563.0	6076.8	5917.1	6002.2	6094.6	6154.8	6250.7	6421.1
27.5°	7975.8	7851.5	7631.4	7187.8	6758.3	6449.5	6541.7	6460.1	6385.6	6435.2	6680.2
30°	8529.5	8607.6	8327.2	7901.3	7496.6	7152.3	7170.0	7099.1	6758.3	6829.2	6974.8
32.5°	9104.5	9154.2	8998.0	8763.7	8359.2	7958.0	7812.5	7752.2	7496.6	7528.5	7386.6
35°	9583.7	9679.5	9541.1	9438.2	9321.1	8998.0	8596.9	8792.2	8380.4	8302.3	7933.2
37.5°	10023.8	9995.5	10158.7	10052.2	10027.4	9800.2	9360.1	9399.1	9122.3	9104.5	8678.5
40°	10417.8	10424.9	10648.6	10698.3	10598.8	10194.2	9555.3	9864.1	10087.7	10109.0	9562.4
42.5°	10744.4	10840.2	11031.9	11433.0	11283.9	10609.5	9757.7	10094.8	10925.4	11056.7	10400.1
45°	11028.3	11223.6	11461.4	11819.9	11734.7	11198.7	10261.7	10570.5	11819.9	12164.2	11188.1
47.5°	11046.1	11301.7	11560.8	12093.2	12199.7	11514.6	10783.5	11323.0	12529.8	12902.5	11763.1
50°	10975.1	11110.0	11628.3	12206.8	12448.1	12029.3	11514.6	11954.8	13218.4	13452.6	12054.2
52.5°	10133.9	10236.8	11276.8	12313.3	12895.4	12611.5	12483.7	12835.1	13921.2	14095.2	12327.5
55°	8447.9	8430.1	9860.6	11777.3	13101.3	13473.9	13395.9	13520.1	14734.0	14890.2	12394.9
57.5°	5778.6	6101.6	7336.9	9807.3	11841.2	13271.6	13353.3	13147.4	13786.4	13846.7	10804.8
60°	3116.5	3251.3	4245.2	6545.3	9015.8	10815.4	11028.3	10655.7	10606.0	10435.6	7713.1
62.5°	1238.8	1306.2	1870.6	3240.7	4912.5	6573.7	7031.6	6879.0	6552.4	6105.2	3993.2
65°	589.2	631.8	930.0	1515.7	2179.4	2740.3	3198.1	3340.1	2463.4	2218.5	1316.8
67.5°	401.1	433.1	677.9	866.1	777.4	812.8	1057.8	983.2	578.6	493.4	365.6
70°	305.3	326.6	543.1	589.2	347.9	244.9	273.3	255.6	237.8	241.4	237.8
72.5°	216.5	234.3	397.5	347.9	152.6	113.6	145.6	173.9	173.9	173.9	170.4
75°	131.3	149.1	230.8	134.9	60.4	60.4	92.3	117.1	124.3	127.8	120.7
77.5°	67.4	85.2	78.1	39.1	39.1	46.1	67.4	81.7	88.7	88.7	85.2
80°	14.2	14.2	14.2	21.3	39.1	49.7	67.4	74.5	85.2	85.2	78.1
82.5°	0.0	3.5	10.6	21.3	35.5	46.1	63.9	74.5	85.2	88.7	81.7
85°	0.0	3.5	7.1	14.2	24.8	28.4	24.8	21.3	21.3	21.3	21.3
87.5°	0.0	0.0	3.5	3.5	3.5	7.1	7.1	7.1	7.1	7.1	7.1
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°	5104.2	5104.2	5104.2	5104.2	5104.2	5104.2	5104.2	5104.2	5104.2	5104.2	5104.2
2.5°	5153.9	5164.6	5146.8	5143.3	5129.0	5171.6	5068.8	5043.9	5107.7	5047.5	5061.6
5°	5221.4	5246.2	5214.2	5161.0	5082.9	4962.3	4859.3	4724.4	4660.5	4614.4	4607.3
7.5°	5271.0	5288.8	5256.8	5086.4	4852.2	4547.0	4319.7	4153.0	4021.6	3982.6	3918.7
10°	5473.3	5476.9	5317.2	4941.0	4483.1	4081.9	3734.1	3478.6	3347.2	3265.6	3230.0
12.5°	5608.2	5601.1	5278.1	4653.4	4042.9	3510.5	3112.9	2804.2	2683.4	2644.4	2619.5
15°	5778.6	5739.5	5185.8	4358.8	3475.0	2899.9	2541.5	2328.5	2317.8	2293.0	2317.8
17.5°	5913.5	5803.4	5051.0	3822.8	2931.9	2388.9	2154.6	2168.8	2197.2	2222.0	2225.5
20°	6133.6	5906.4	4742.2	3354.3	2427.8	2048.1	2044.5	2108.4	2179.4	2207.8	2236.2
22.5°	6300.4	5949.0	4412.0	2853.8	2016.1	1909.7	1969.9	2065.8	2119.0	2147.5	2190.1
25°	6360.7	5831.9	3971.9	2353.3	1817.3	1845.8	1938.0	2001.9	2069.4	2101.3	2083.6
27.5°	6421.1	5771.5	3446.6	1938.0	1710.9	1803.2	1881.2	1945.1	1966.4	2009.0	2037.4
30°	6566.6	5562.1	2974.5	1675.4	1657.6	1774.7	1831.5	1852.8	1909.7	1934.5	1934.5
32.5°	6683.8	5480.5	2474.0	1551.1	1650.6	1788.9	1796.0	1796.0	1803.2	1785.4	1778.3
35°	6925.1	5200.1	2026.8	1476.6	1647.0	1792.5	1810.2	1749.9	1586.7	1522.8	1505.0
37.5°	7223.3	5019.0	1696.7	1458.9	1671.9	1835.1	1863.5	1636.3	1423.3	1320.5	1302.7
40°	7585.3	4891.2	1480.2	1451.8	1728.6	1934.5	1849.3	1547.6	1270.7	1121.6	1114.5
42.5°	8007.7	4774.1	1334.6	1448.2	1799.6	2037.4	1835.1	1473.1	1114.5	1015.2	1029.3
45°	8344.9	4710.2	1235.3	1423.3	1824.5	2097.7	1845.8	1341.7	1050.6	986.7	993.9
47.5°	8607.6	4575.3	1153.6	1380.7	1820.9	2119.0	1749.9	1288.5	1018.7	1036.5	1054.2
50°	8614.7	4394.3	1050.6	1288.5	1767.6	2080.0	1639.9	1238.8	1011.6	1086.2	1121.6
52.5°	8518.9	4138.7	940.6	1157.1	1643.4	1945.1	1540.5	1217.5	979.7	972.6	1015.2
55°	8178.1	3659.6	756.1	937.1	1387.9	1604.4	1451.8	1178.4	883.9	802.2	809.3
57.5°	6609.2	2623.1	557.3	670.9	983.2	1174.9	1309.8	1160.7	795.1	681.5	685.0
60°	4092.6	1487.2	408.2	457.9	607.0	713.5	1061.3	1079.1	709.9	575.0	567.9
62.5°	2101.3	734.8	315.9	323.0	372.7	418.8	727.6	905.1	642.5	546.6	546.6
65°	702.8	362.1	276.9	248.4	248.4	259.1	440.1	628.3	543.1	457.9	457.9
67.5°	301.7	269.7	241.4	216.5	198.8	188.2	248.4	365.6	404.7	347.9	333.6
70°	234.3	227.1	209.5	181.0	156.2	142.0	145.6	188.2	230.8	223.6	216.5
72.5°	173.9	173.9	166.9	142.0	120.7	103.0	95.8	99.4	110.0	113.6	117.1
75°	120.7	124.3	124.3	110.0	88.7	74.5	63.9	53.2	42.6	35.5	31.9
77.5°	81.7	85.2	92.3	81.7	67.4	49.7	39.1	28.4	17.8	7.1	7.1
80°	71.0	81.7	88.7	81.7	71.0	53.2	39.1	21.3	10.6	0.0	0.0
82.5°	74.5	81.7	92.3	78.1	67.4	49.7	39.1	24.8	10.6	3.5	0.0
85°	17.8	17.8	21.3	24.8	31.9	35.5	28.4	17.8	10.6	3.5	0.0
87.5°	7.1	7.1	7.1	7.1	7.1	3.5	3.5	3.5	3.5	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)