

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: P648179

Luminaire Tested: **GALN-SA9A-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648179
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-SA9A-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA 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: 19741.7 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

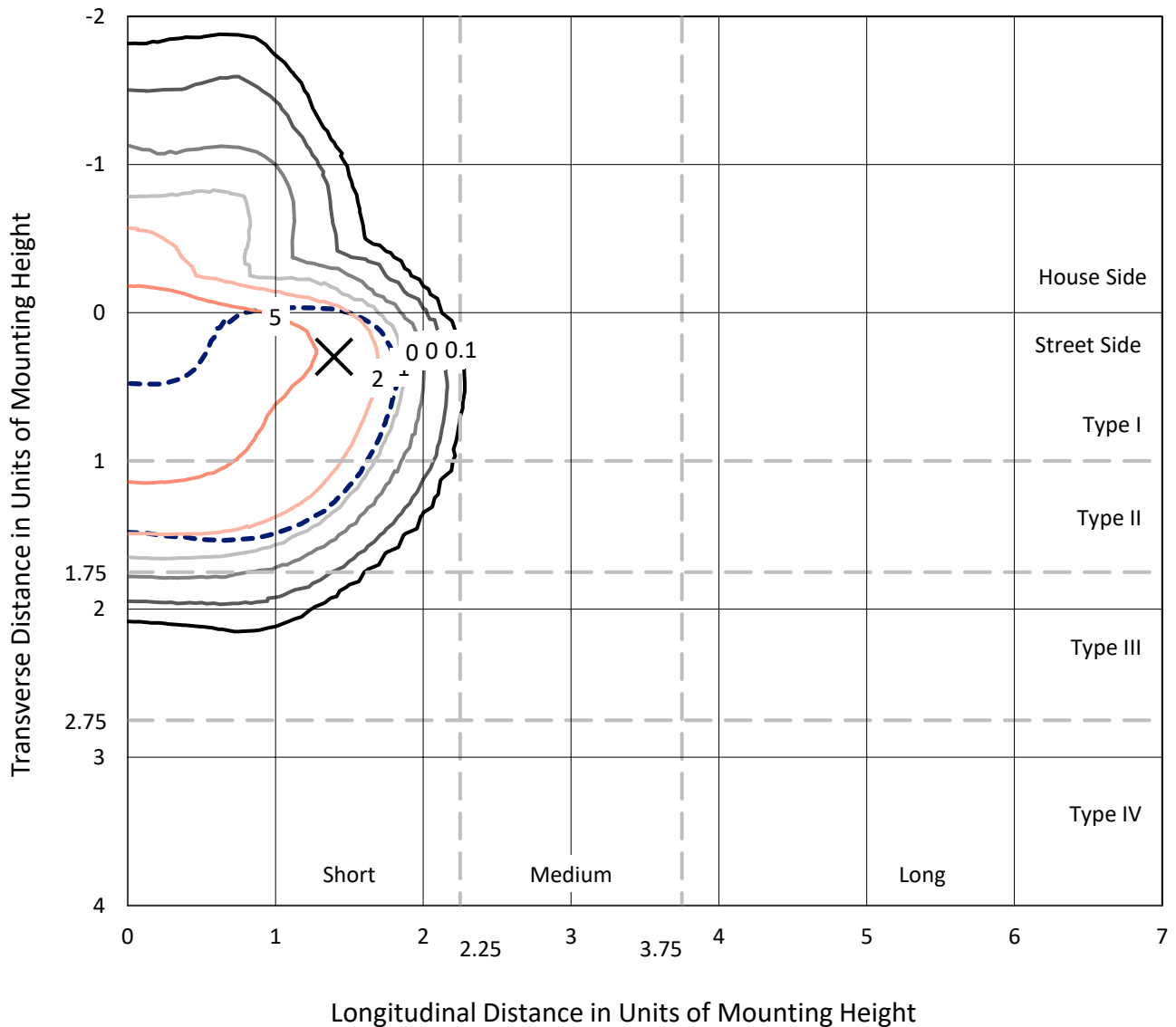
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

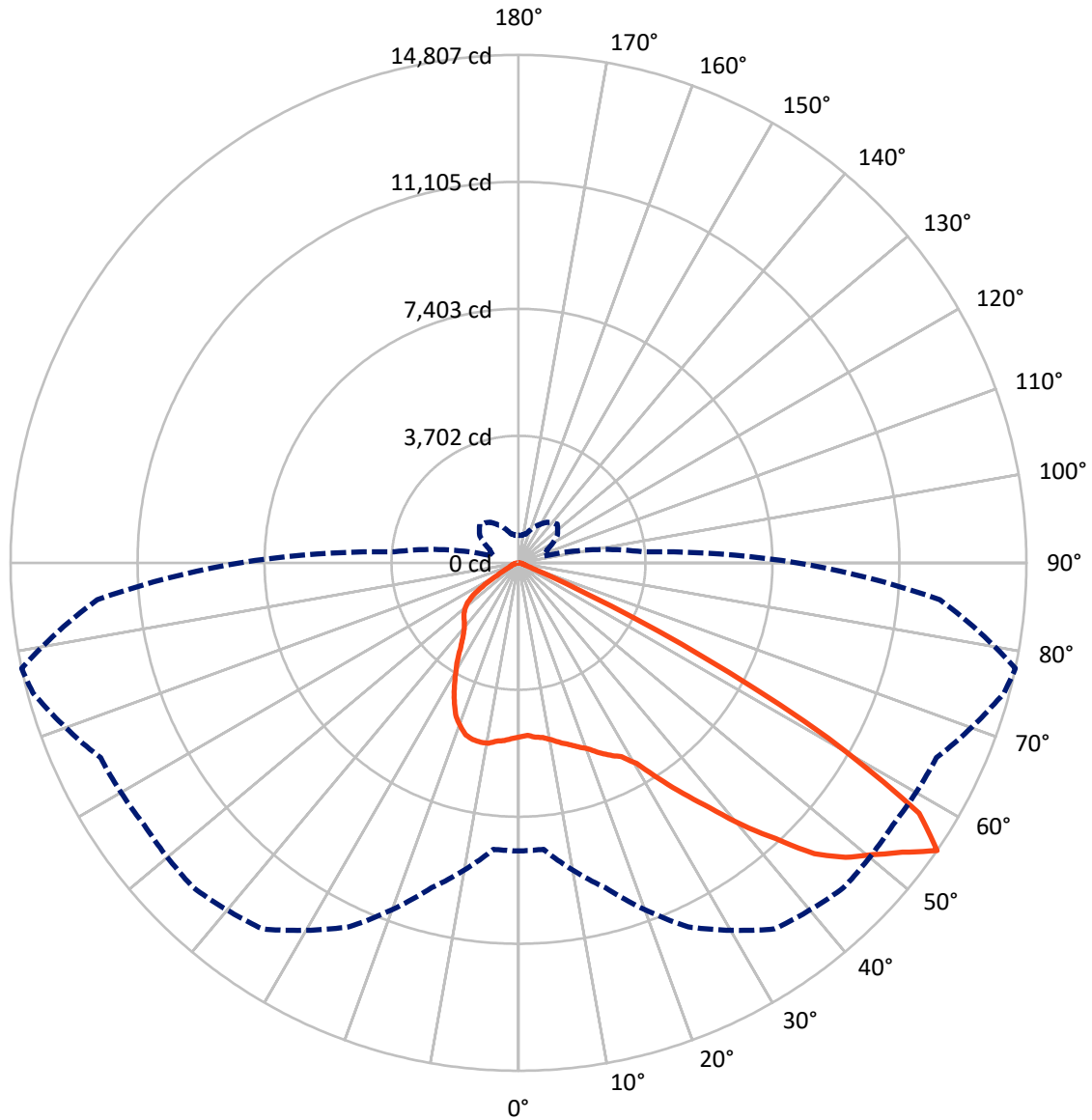
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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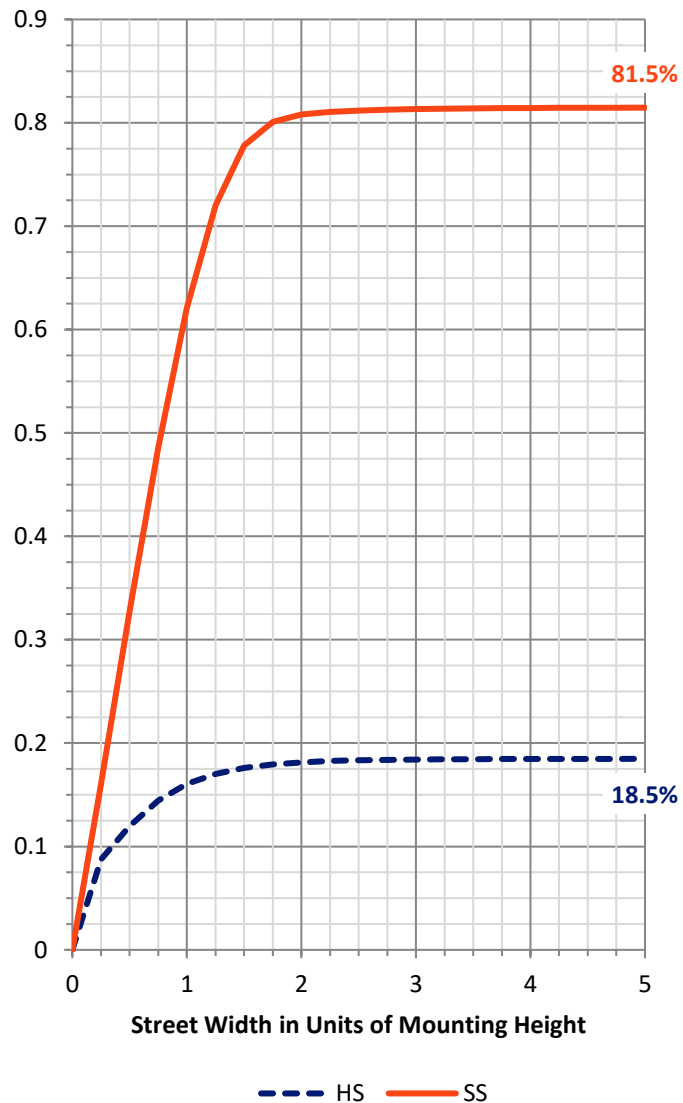
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3666.8	0.0	3666.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16074.9	0.0	16074.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	19741.7	0.0	19741.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.6	2.3
10°-20°	1197.8	6.1
20°-30°	2099.5	10.6
30°-40°	3461.8	17.5
40°-50°	5037.3	25.5
50°-60°	5707.8	28.9
60°-70°	1632.0	8.3
70°-80°	126.7	0.6
80°-90°	26.3	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°	19741.7	100.0
0°-180°	19741.7	100.0

Coefficient of Utilization

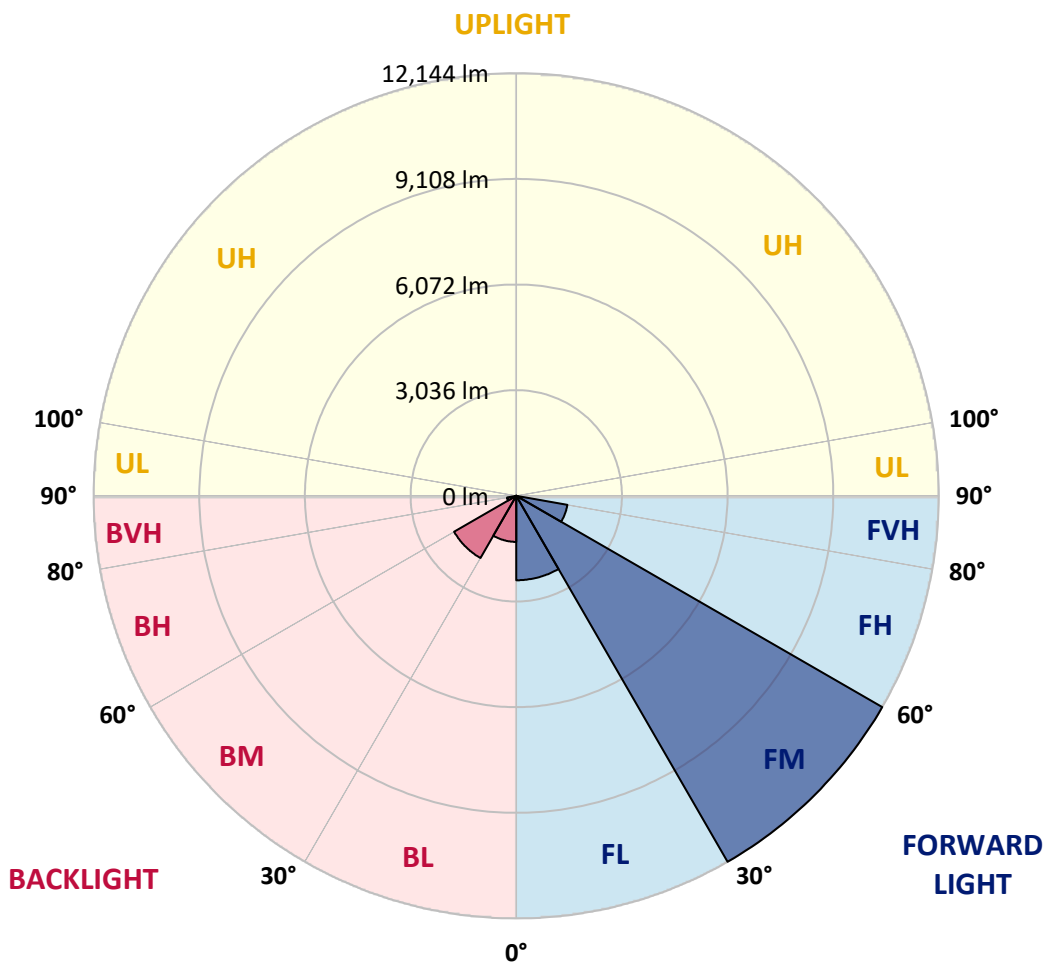


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2426.8	12.3			
FM (30°-60°)	12144.3	61.5			
FH (60°-80°)	1491.0	7.6			G1/1800
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	1323.0	6.7	B3/2500		
BM (30°-60°)	2062.6	10.4	B2/2500		
BH (60°-80°)	267.7	1.4	B1/500		G1/500
BVH (80°-90°)	13.5	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°	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6
2.5°	4772.1	4818.0	4825.0	4881.5	4877.9	4973.2	5001.5	5005.0	5068.6	5036.8	5118.0
5°	4637.9	4613.2	4602.6	4701.4	4729.7	4814.4	4885.1	4927.3	5057.9	5103.8	5188.5
7.5°	4517.9	4517.9	4525.0	4613.2	4602.6	4712.1	4786.2	4916.8	5107.4	5146.2	5248.6
10°	4401.5	4359.1	4412.0	4503.8	4581.5	4630.9	4786.2	4909.7	5132.1	5245.1	5386.3
12.5°	4341.4	4362.6	4369.7	4436.8	4521.4	4669.7	4754.5	4959.1	5308.6	5375.6	5527.4
15°	4719.1	4676.8	4574.4	4514.4	4585.0	4655.6	4867.4	5075.6	5400.4	5495.6	5665.1
17.5°	5156.8	5121.5	5036.8	4874.4	4715.6	4846.2	5012.1	5202.7	5499.2	5640.3	5891.0
20°	5728.6	5672.1	5587.4	5269.7	5132.1	4990.9	5167.4	5393.3	5661.6	5788.6	6046.2
22.5°	6409.8	6409.8	6219.2	5834.5	5548.6	5414.4	5488.6	5619.2	5841.6	6014.5	6268.6
25°	7119.3	7098.1	6925.2	6526.3	6042.7	5883.9	5968.7	6060.4	6120.4	6215.7	6385.1
27.5°	7931.1	7807.5	7588.8	7147.5	6720.4	6413.3	6505.2	6424.0	6349.8	6399.2	6642.8
30°	8481.7	8559.4	8280.5	7857.0	7454.6	7112.2	7129.8	7059.3	6720.4	6791.0	6935.7
32.5°	9053.5	9102.9	8947.7	8714.7	8312.3	7913.5	7768.8	7708.7	7454.6	7486.3	7345.2
35°	9530.0	9625.3	9487.7	9385.4	9268.8	8947.7	8548.8	8742.9	8333.5	8255.8	7888.7
37.5°	9967.7	9939.5	10101.8	9995.9	9971.3	9745.4	9307.7	9346.5	9071.2	9053.5	8630.0
40°	10359.5	10366.5	10588.9	10638.3	10539.5	10137.1	9501.8	9808.9	10031.2	10052.4	9508.8
42.5°	10684.2	10779.6	10970.1	11369.0	11220.7	10550.1	9703.0	10038.3	10864.2	10994.8	10341.9
45°	10966.6	11160.7	11397.2	11753.7	11669.0	11136.0	10204.2	10511.3	11753.7	12096.1	11125.4
47.5°	10984.2	11238.4	11496.0	12025.5	12131.4	11450.1	10723.0	11259.5	12459.6	12830.2	11697.2
50°	10913.6	11047.7	11563.1	12138.5	12378.4	11962.0	11450.1	11887.8	13144.4	13377.3	11986.6
52.5°	10077.1	10179.5	11213.7	12244.3	12823.2	12540.8	12413.8	12763.2	13843.3	14016.2	12258.4
55°	8400.6	8382.9	9805.4	11711.3	13027.9	13398.5	13320.9	13444.4	14651.6	14806.8	12325.5
57.5°	5746.3	6067.5	7295.8	9752.4	11774.9	13197.3	13278.5	13073.8	13709.2	13769.1	10744.2
60°	3099.0	3233.2	4221.5	6508.7	8965.3	10754.8	10966.6	10595.9	10546.5	10377.2	7669.9
62.5°	1231.8	1298.9	1860.1	3222.6	4885.1	6536.9	6992.2	6840.4	6515.7	6071.0	3970.8
65°	585.9	628.3	924.8	1507.1	2167.2	2724.9	3180.2	3321.4	2449.5	2206.0	1309.5
67.5°	398.9	430.6	674.2	861.2	773.0	808.3	1051.8	977.7	575.3	490.6	363.5
70°	303.6	324.7	540.0	585.9	345.9	243.5	271.8	254.2	236.5	240.0	236.5
72.5°	215.3	232.9	395.3	345.9	151.7	113.0	144.7	173.0	173.0	173.0	169.4
75°	130.6	148.2	229.4	134.1	60.0	60.0	91.8	116.5	123.6	127.1	120.0
77.5°	67.0	84.7	77.7	38.8	38.8	45.9	67.0	81.2	88.2	88.2	84.7
80°	14.1	14.1	14.1	21.1	38.8	49.4	67.0	74.2	84.7	84.7	77.7
82.5°	0.0	3.5	10.6	21.1	35.3	45.9	63.5	74.2	84.7	88.2	81.2
85°	0.0	3.5	7.0	14.1	24.7	28.3	24.7	21.1	21.1	21.1	21.1
87.5°	0.0	0.0	3.5	3.5	3.5	7.0	7.0	7.0	7.0	7.0	7.0
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°	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6	5075.6
2.5°	5125.0	5135.6	5118.0	5114.5	5100.3	5142.7	5040.3	5015.6	5079.2	5019.2	5033.3
5°	5192.1	5216.8	5185.0	5132.1	5054.4	4934.5	4832.0	4697.9	4634.4	4588.5	4581.5
7.5°	5241.5	5259.2	5227.4	5057.9	4825.0	4521.4	4295.5	4129.7	3999.1	3960.3	3896.8
10°	5442.7	5446.2	5287.4	4913.2	4457.9	4059.1	3713.2	3459.1	3328.5	3247.3	3211.9
12.5°	5576.8	5569.8	5248.6	4627.4	4020.2	3490.8	3095.5	2788.4	2668.4	2629.5	2604.9
15°	5746.3	5707.4	5156.8	4334.4	3455.5	2883.7	2527.2	2315.4	2304.8	2280.2	2304.8
17.5°	5880.4	5770.9	5022.7	3801.4	2915.5	2375.5	2142.5	2156.6	2184.9	2209.5	2213.1
20°	6099.3	5873.3	4715.6	3335.5	2414.3	2036.6	2033.1	2096.6	2167.2	2195.5	2223.6
22.5°	6265.1	5915.6	4387.3	2837.8	2004.9	1898.9	1959.0	2054.3	2107.2	2135.4	2177.8
25°	6325.2	5799.2	3949.7	2340.2	1807.2	1835.4	1927.2	1990.7	2057.8	2089.5	2071.9
27.5°	6385.1	5739.2	3427.3	1927.2	1701.3	1793.1	1870.7	1934.2	1955.4	1997.7	2026.0
30°	6529.8	5531.0	2957.9	1666.0	1648.4	1764.8	1821.3	1842.5	1898.9	1923.7	1923.7
32.5°	6646.3	5449.8	2460.2	1542.4	1641.2	1779.0	1786.0	1786.0	1793.1	1775.4	1768.3
35°	6886.3	5170.9	2015.4	1468.4	1637.7	1782.5	1800.1	1740.1	1577.7	1514.2	1496.5
37.5°	7182.9	4990.9	1687.1	1450.7	1662.5	1824.9	1853.0	1627.2	1415.4	1313.0	1295.4
40°	7542.9	4863.8	1471.9	1443.6	1718.9	1923.7	1839.0	1538.9	1263.6	1115.4	1108.3
42.5°	7962.9	4747.3	1327.1	1440.1	1789.5	2026.0	1824.9	1464.8	1108.3	1009.4	1023.6
45°	8298.2	4683.8	1228.3	1415.4	1814.2	2086.0	1835.4	1334.2	1044.8	981.3	988.3
47.5°	8559.4	4549.7	1147.1	1373.1	1810.7	2107.2	1740.1	1281.2	1013.0	1030.7	1048.3
50°	8566.4	4369.7	1044.8	1281.2	1757.8	2068.4	1630.7	1231.8	1005.9	1080.1	1115.4
52.5°	8471.1	4115.5	935.4	1150.7	1634.2	1934.2	1531.9	1210.7	974.2	967.1	1009.4
55°	8132.3	3639.1	751.8	931.8	1380.1	1595.4	1443.6	1171.8	878.9	797.7	804.8
57.5°	6572.2	2608.4	554.1	667.1	977.7	1168.3	1302.4	1154.2	790.7	677.7	681.2
60°	4069.6	1478.9	405.9	455.3	603.5	709.5	1055.3	1073.0	706.0	571.8	564.8
62.5°	2089.5	730.6	314.1	321.2	370.6	416.5	723.6	900.1	638.8	543.6	543.6
65°	698.9	360.0	275.3	247.0	247.0	257.7	437.7	624.8	540.0	455.3	455.3
67.5°	300.0	268.3	240.0	215.3	197.6	187.1	247.0	363.5	402.4	345.9	331.8
70°	232.9	225.9	208.3	180.0	155.3	141.2	144.7	187.1	229.4	222.4	215.3
72.5°	173.0	173.0	165.9	141.2	120.0	102.3	95.3	98.8	109.4	113.0	116.5
75°	120.0	123.6	123.6	109.4	88.2	74.2	63.5	52.9	42.4	35.3	31.8
77.5°	81.2	84.7	91.8	81.2	67.0	49.4	38.8	28.3	17.6	7.0	7.0
80°	70.6	81.2	88.2	81.2	70.6	52.9	38.8	21.1	10.6	0.0	0.0
82.5°	74.2	81.2	91.8	77.7	67.0	49.4	38.8	24.7	10.6	3.5	0.0
85°	17.6	17.6	21.1	24.7	31.8	35.3	28.3	17.6	10.6	3.5	0.0
87.5°	7.0	7.0	7.0	7.0	7.0	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)