

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: P532777

Luminaire Tested: **GALN-SA8A-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21891 lumens
Efficiency: N/A
Efficacy: 89.7 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): 244
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



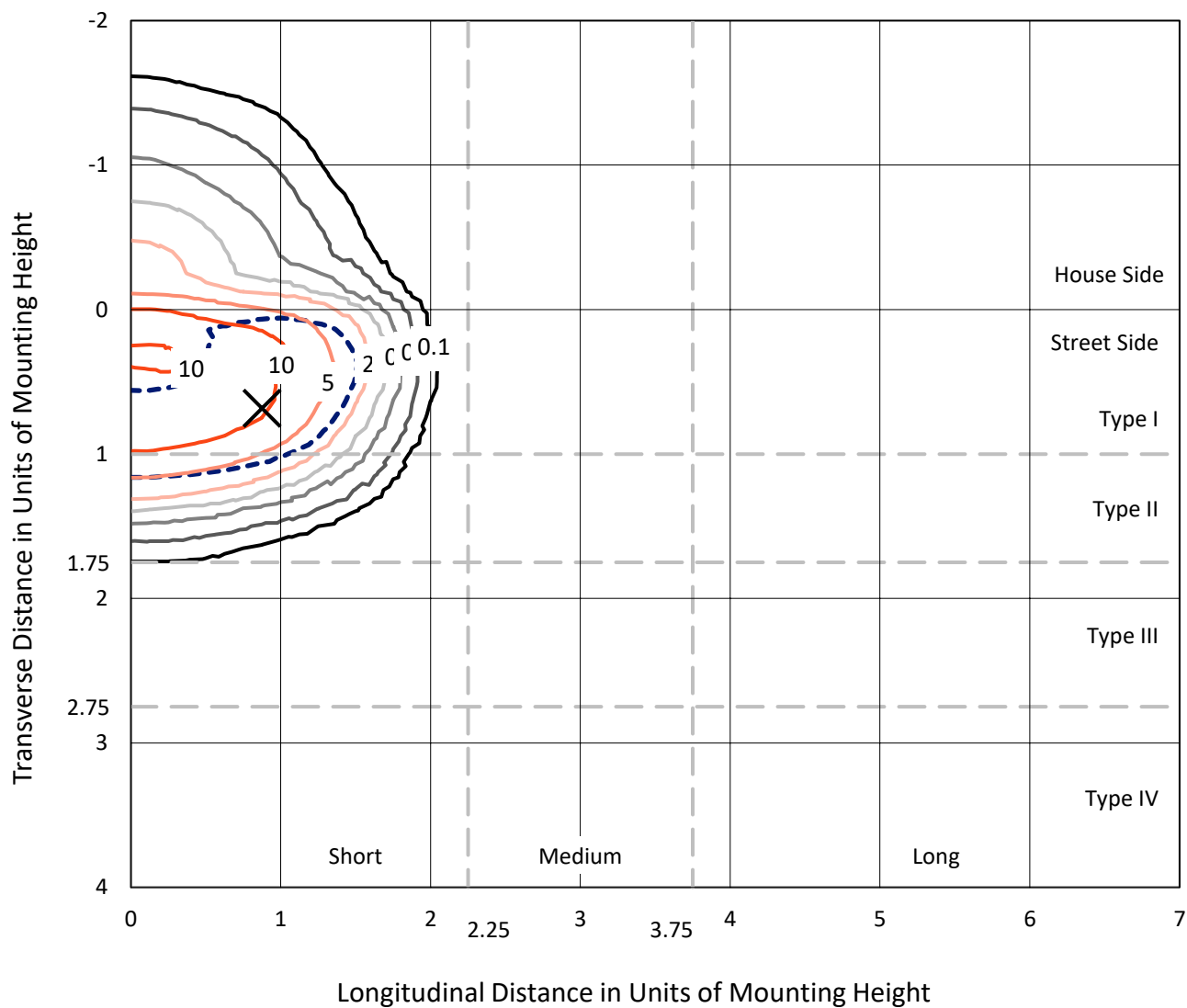
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

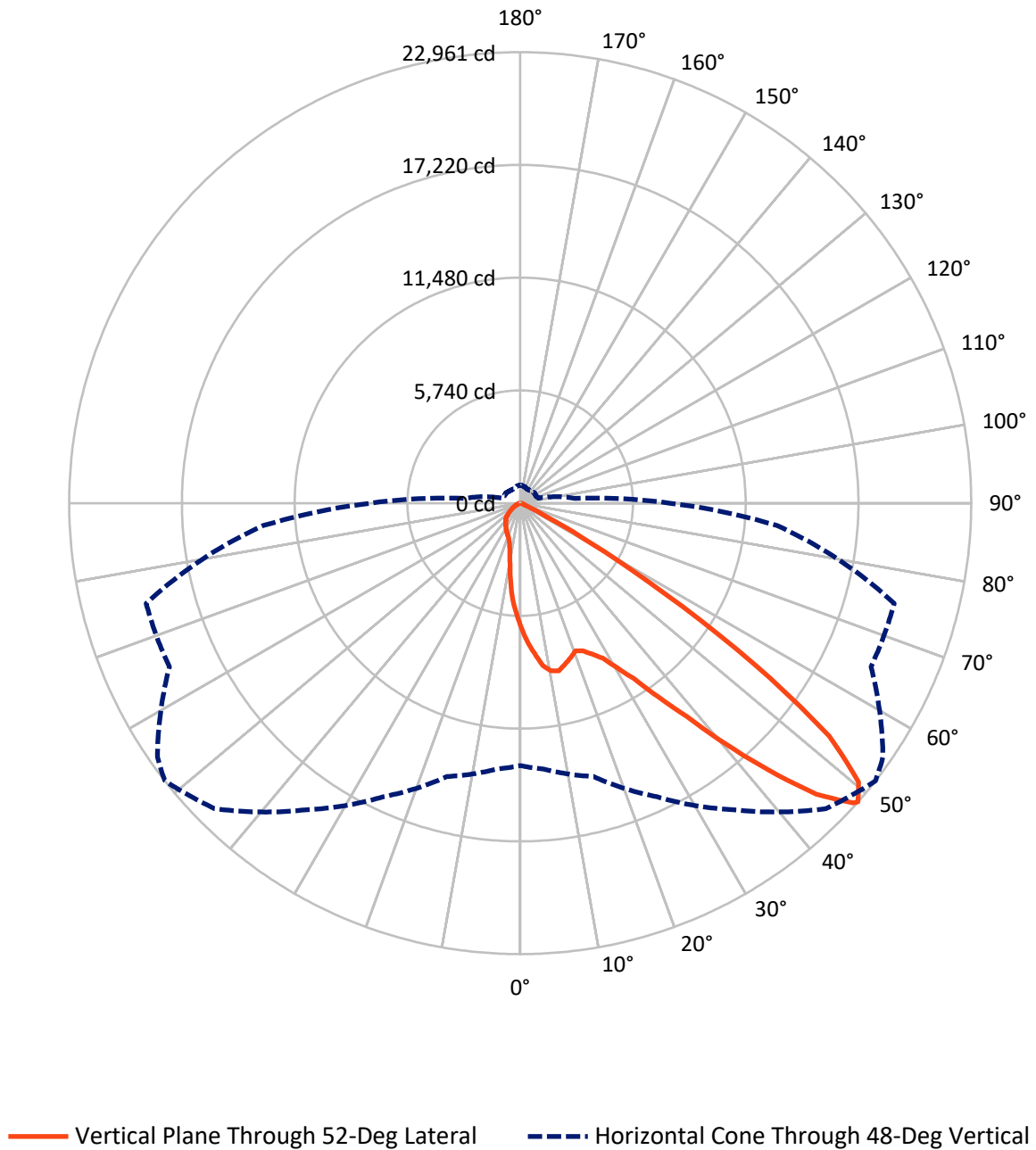


Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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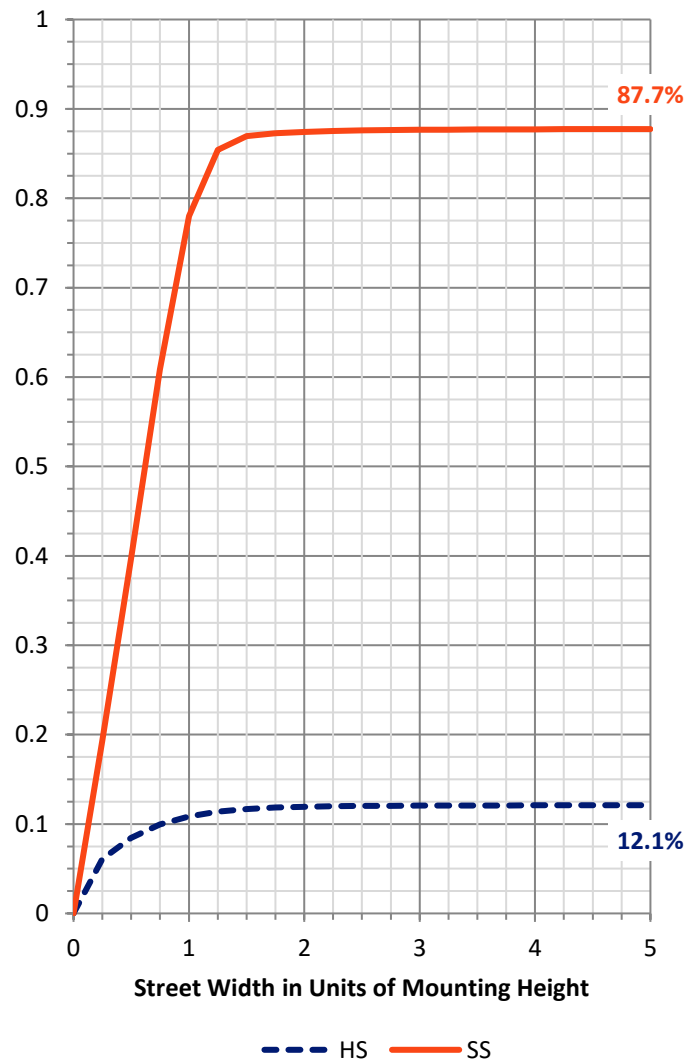
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2665.4	0.0	2665.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	19225.6	0.0	19225.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	21891.0	0.0	21891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.6	2.6
10°-20°	1512.1	6.9
20°-30°	2581.9	11.8
30°-40°	4754.5	21.7
40°-50°	7383.7	33.7
50°-60°	4443.7	20.3
60°-70°	514.0	2.3
70°-80°	99.5	0.5
80°-90°	23.0	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°	21891.0	100.0
0°-180°	21891.0	100.0

Coefficient of Utilization



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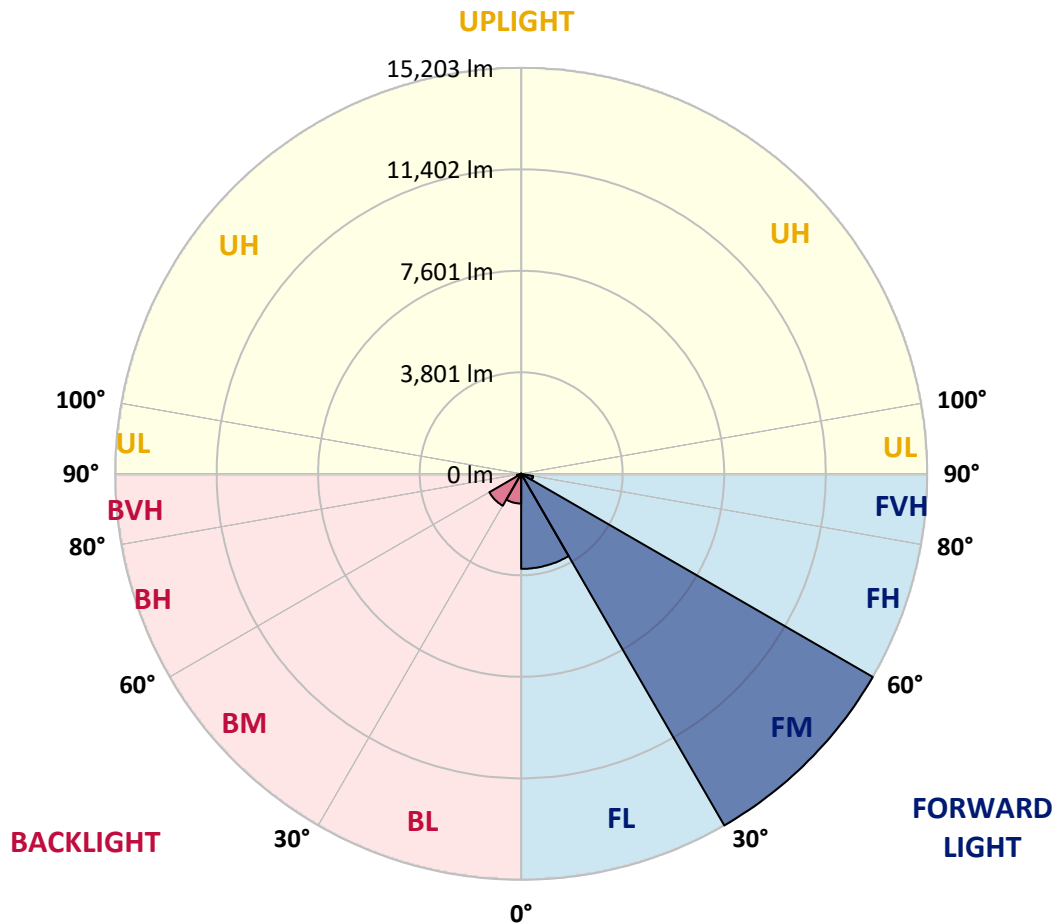
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3559.2	16.3			
FM	(30°-60°)	15202.9	69.4			
FH	(60°-80°)	452.6	2.1			G0/660
FVH	(80°-90°)	10.9	0.1			G1/100
BL	(0°-30°)	1113.4	5.1	B3/2500		
BM	(30°-60°)	1379.0	6.3	B2/2500		
BH	(60°-80°)	160.9	0.7	B1/500		G1/500
BVH	(80°-90°)	12.1	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°	52°	55°	65°	75°	85°
0°	6321.8	6321.8	6321.8	6321.8	6321.8	6321.8	6321.8	6321.8	6321.8	6321.8	6321.8
2.5°	7662.1	7486.5	7502.5	7387.6	7320.6	7212.1	7065.3	7036.6	6877.0	6660.0	6439.8
5°	8351.4	8309.9	8364.1	8198.2	8204.6	8025.9	7681.2	7687.6	7320.6	6966.4	6624.9
7.5°	8396.0	8300.3	8354.5	8501.3	8587.5	8555.6	8360.9	8191.8	7844.0	7323.8	6826.0
10°	7518.5	7700.4	7757.8	8000.3	8345.0	8708.8	8686.4	8696.0	8405.6	7725.9	6998.3
12.5°	6991.9	6870.6	7065.3	7212.1	7732.3	8437.5	8759.8	8830.0	8852.4	8115.2	7170.6
15°	6752.6	6752.6	6784.5	6826.0	7202.5	7853.5	8510.9	8715.2	9197.0	8625.8	7441.9
17.5°	6902.6	6896.2	6940.8	6854.7	6995.1	7496.1	8281.2	8514.1	9583.2	9126.8	7655.7
20°	7358.9	7381.2	7352.5	7103.6	7113.2	7489.7	8025.9	8392.8	9844.8	9560.8	7939.7
22.5°	7993.9	8006.7	7844.0	7572.7	7492.9	7678.0	8172.7	8453.5	10055.5	10081.0	8025.9
25°	8727.9	8676.9	8644.9	8262.0	8019.5	8179.0	8504.5	8667.3	10186.3	10527.8	8271.6
27.5°	9745.9	9643.8	9449.1	9107.7	8929.0	8702.4	8935.3	9203.4	10559.7	11153.2	8539.6
30°	11249.0	11159.6	10779.9	10339.5	9870.4	9647.0	9720.4	9867.2	11233.0	11877.6	8893.9
32.5°	13511.5	13323.2	12774.4	11935.1	11296.8	10680.9	10661.8	10818.2	11836.1	12879.7	9315.1
35°	16003.8	15946.4	15139.0	14274.2	13039.2	12088.2	12104.2	12187.2	12991.4	14194.4	9867.2
37.5°	17660.1	17976.0	17462.2	16533.6	15496.4	14137.0	13792.3	13821.1	14577.4	15751.7	10862.8
40°	18939.7	18671.7	18732.3	18515.3	17806.9	16881.4	16118.7	15968.7	16412.3	17475.0	11852.1
42.5°	18381.3	18394.0	18767.4	19281.2	19456.7	19389.7	18611.0	18327.0	17982.4	18885.5	12793.5
45°	16804.8	17133.5	17618.6	18978.0	20171.5	21291.7	21138.5	20666.2	19067.4	20002.4	13336.0
47.5°	14290.2	14277.4	15072.0	16839.9	19491.8	22115.0	22810.7	22478.8	19836.5	19878.0	13224.3
48°	13361.5	13591.3	14411.4	16492.1	19061.0	21993.7	22960.6	22542.6	19705.6	19712.0	13128.6
50°	9876.7	9835.3	10856.4	13409.4	17025.0	20666.2	22328.8	22654.3	19702.4	18872.7	12458.4
52.5°	5217.6	5396.3	6139.9	8431.1	12037.2	16913.3	19696.1	20203.5	19006.8	17500.5	11494.7
55°	2217.9	2004.1	2575.3	3807.1	6771.7	11300.0	14449.7	15579.4	16070.9	15486.9	10055.5
57.5°	791.4	864.8	995.7	1432.8	2846.5	6184.5	8616.2	9493.8	11134.1	11363.8	6851.5
60°	507.4	517.0	558.5	657.4	1069.1	2383.8	4087.9	4786.8	5530.3	5709.0	3197.6
62.5°	392.5	395.7	414.9	430.8	507.4	925.4	1535.0	1819.0	1889.2	1624.3	839.3
65°	328.7	331.9	338.3	338.3	360.6	434.0	536.1	590.4	574.4	568.0	475.5
67.5°	252.1	258.5	271.3	271.3	284.0	264.9	296.8	315.9	357.4	434.0	405.3
70°	197.9	201.0	210.6	217.0	217.0	191.5	213.8	233.0	261.7	322.3	319.1
72.5°	153.2	159.6	165.9	165.9	156.4	130.8	153.2	169.1	188.3	223.4	217.0
75°	118.1	118.1	121.3	98.9	76.6	67.0	92.5	111.7	140.4	146.8	121.3
77.5°	31.9	35.1	31.9	28.7	31.9	47.9	60.6	70.2	89.4	89.4	79.8
80°	0.0	3.2	9.6	19.1	31.9	44.7	54.3	60.6	70.2	76.6	73.4
82.5°	0.0	3.2	9.6	19.1	28.7	35.1	47.9	51.1	57.4	67.0	67.0
85°	0.0	3.2	6.4	12.8	19.1	22.3	22.3	19.1	19.1	16.0	12.8
87.5°	0.0	0.0	3.2	6.4	6.4	9.6	9.6	9.6	9.6	9.6	9.6
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°	6321.8	6321.8	6321.8	6321.8	6321.8	6321.8	6321.8	6321.8	6321.8	6321.8	6321.8
2.5°	6353.7	6254.7	6104.8	5868.6	5642.0	5495.2	5354.8	5198.5	5112.3	5105.9	5058.0
5°	6430.3	6206.9	5849.5	5444.2	5010.2	4636.8	4260.2	4014.5	3794.3	3673.1	3650.7
7.5°	6471.7	6181.3	5603.7	4924.0	4183.7	3574.1	3152.9	2843.4	2722.1	2632.7	2629.5
10°	6557.9	6136.7	5236.8	4234.7	3318.8	2702.9	2412.5	2272.1	2205.1	2179.6	2141.3
12.5°	6621.7	6053.7	4860.2	3526.3	2623.2	2240.2	2112.6	2080.7	2083.9	2096.6	2080.7
15°	6711.1	5980.3	4352.8	2894.4	2201.9	2016.8	2016.8	2023.2	2067.9	2074.3	2071.1
17.5°	6704.7	5836.7	3829.4	2383.8	1946.6	1921.1	1930.7	1991.3	2020.0	2029.6	2007.3
20°	6781.3	5702.7	3290.1	2036.0	1803.0	1841.3	1905.1	1921.1	1956.2	1962.6	1937.1
22.5°	6759.0	5367.6	2789.1	1761.5	1694.5	1767.9	1831.7	1850.9	1841.3	1822.2	1819.0
25°	6717.5	5080.4	2329.6	1579.6	1614.7	1694.5	1755.2	1720.1	1700.9	1704.1	1707.3
27.5°	6644.1	4716.6	1949.8	1452.0	1506.2	1624.3	1621.1	1608.4	1627.5	1611.6	1627.5
30°	6631.3	4352.8	1637.1	1337.1	1426.5	1512.6	1519.0	1541.3	1563.7	1535.0	1563.7
32.5°	6650.5	3953.9	1413.7	1266.9	1378.6	1381.8	1452.0	1474.3	1458.4	1394.6	1400.9
35°	6797.2	3647.5	1250.9	1228.6	1302.0	1305.2	1372.2	1343.5	1273.3	1235.0	1257.3
37.5°	7106.8	3392.2	1174.4	1193.5	1199.9	1241.4	1244.6	1187.1	1193.5	1190.3	1203.1
40°	7502.5	3197.6	1120.1	1161.6	1155.2	1183.9	1069.1	1101.0	1129.7	1139.3	1145.6
42.5°	7773.8	3057.2	1085.0	1110.5	1097.8	1046.7	982.9	1014.8	1037.1	1072.2	1078.6
45°	7895.0	2945.5	1043.5	1021.2	1021.2	928.6	903.1	909.5	960.5	998.8	992.5
47.5°	7697.2	2837.0	970.1	903.1	925.4	848.9	820.1	820.1	874.4	922.3	912.7
48°	7620.6	2792.3	973.3	877.6	893.5	836.1	807.4	801.0	861.6	906.3	906.3
50°	7240.8	2626.4	890.3	807.4	775.5	769.1	749.9	756.3	794.6	836.1	836.1
52.5°	6500.5	2268.9	753.1	692.5	635.0	673.3	682.9	670.2	689.3	727.6	724.4
55°	5425.0	1742.4	603.1	574.4	529.7	571.2	590.4	574.4	555.3	584.0	584.0
57.5°	3475.2	938.2	481.9	488.3	443.6	485.1	501.0	462.7	427.6	450.0	446.8
60°	1566.9	561.7	395.7	386.1	357.4	405.3	430.8	386.1	338.3	354.2	370.2
62.5°	587.2	398.9	300.0	293.6	287.2	331.9	344.6	309.5	261.7	271.3	274.4
65°	430.8	351.0	239.3	217.0	229.8	261.7	255.3	220.2	188.3	188.3	194.7
67.5°	367.0	306.4	194.7	169.1	169.1	172.3	159.6	140.4	130.8	137.2	143.6
70°	287.2	242.5	153.2	130.8	118.1	105.3	92.5	89.4	79.8	89.4	86.2
72.5°	185.1	162.8	118.1	98.9	89.4	73.4	60.6	57.4	47.9	44.7	44.7
75°	98.9	98.9	92.5	79.8	70.2	57.4	47.9	38.3	25.5	19.1	19.1
77.5°	70.2	76.6	83.0	76.6	63.8	47.9	38.3	25.5	12.8	6.4	6.4
80°	67.0	76.6	83.0	73.4	63.8	47.9	35.1	19.1	9.6	3.2	3.2
82.5°	60.6	70.2	76.6	67.0	57.4	41.5	31.9	19.1	9.6	3.2	3.2
85°	12.8	16.0	19.1	19.1	22.3	28.7	22.3	16.0	6.4	3.2	3.2
87.5°	9.6	9.6	9.6	9.6	9.6	9.6	6.4	6.4	3.2	3.2	3.2
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)