

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: P531391

Luminaire Tested: **GALN-SA6C-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531391
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-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 20148 lumens
Efficiency: N/A
Efficacy: 62.8 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

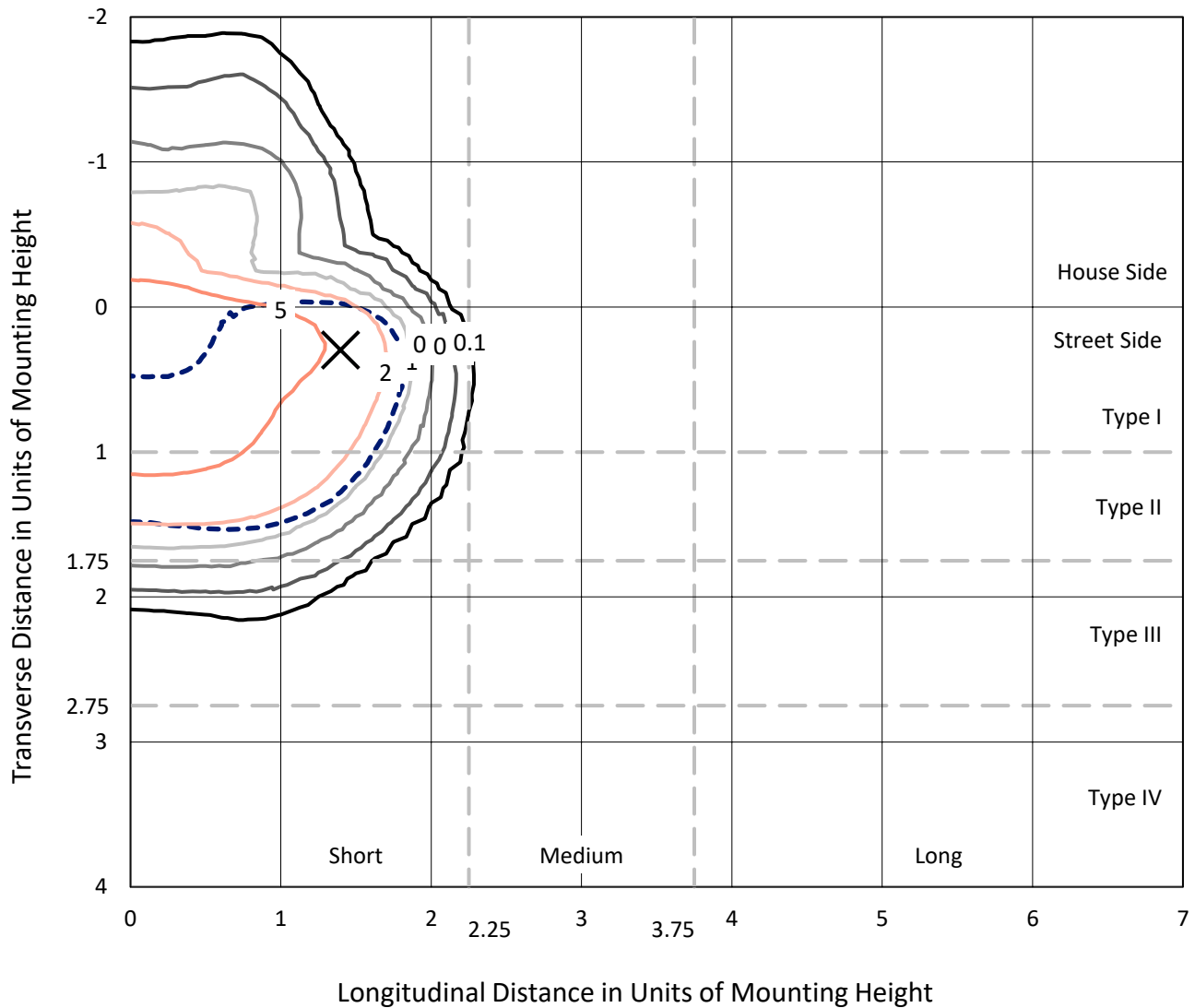


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

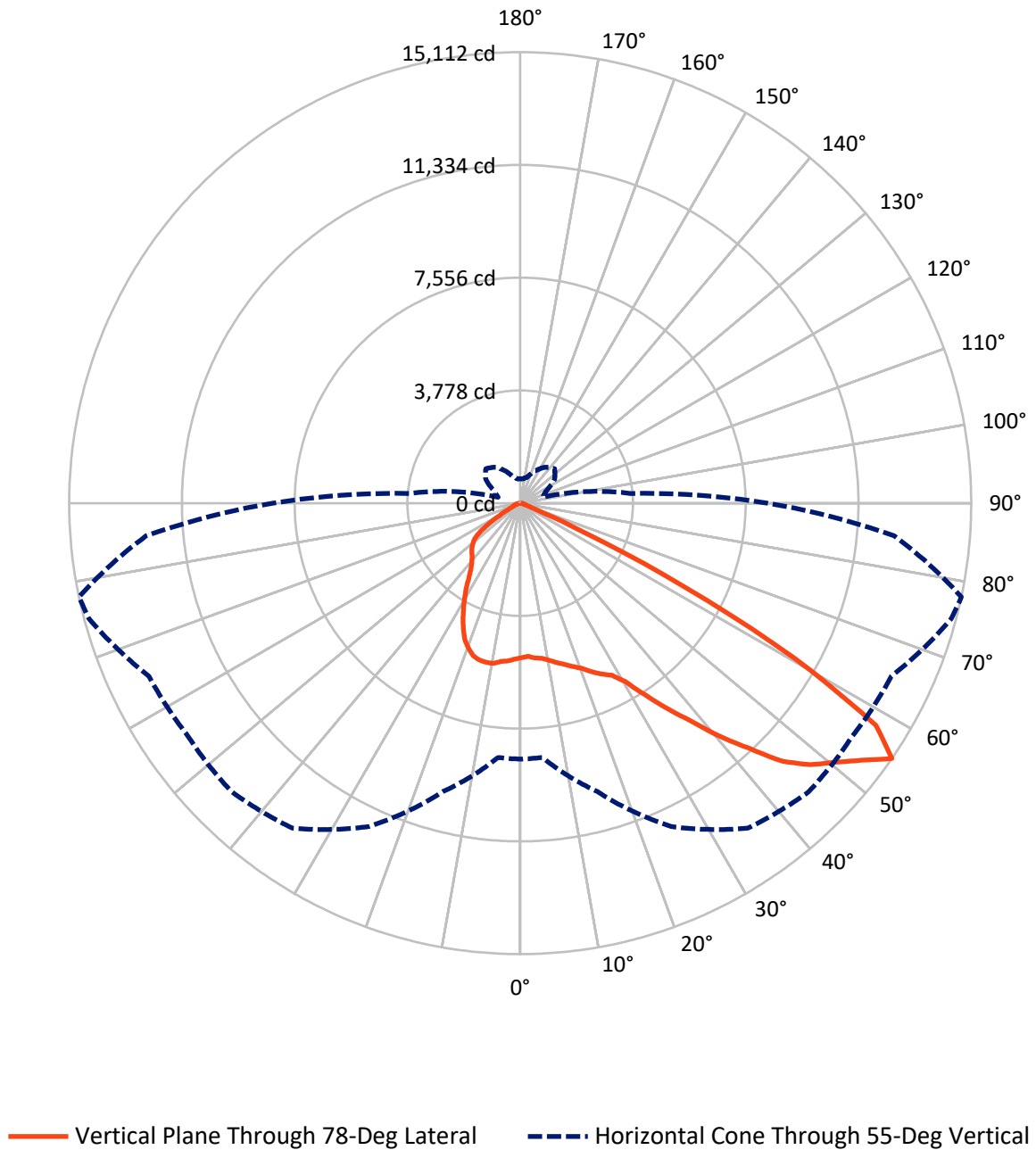


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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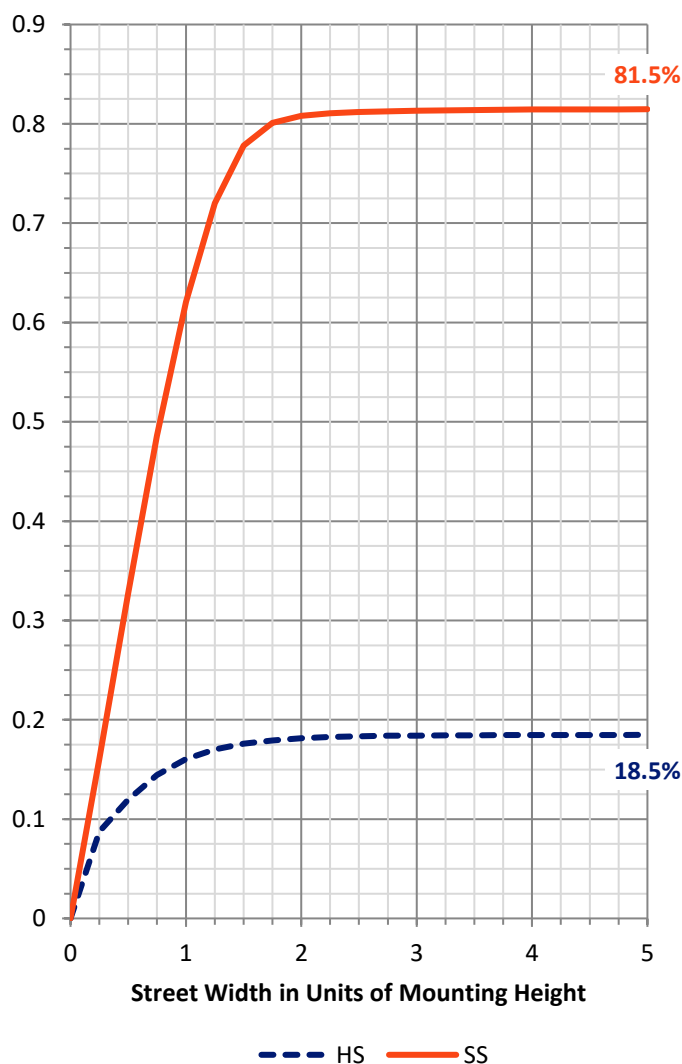
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3742.3	0.0	3742.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16405.7	0.0	16405.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	20148.0	0.0	20148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.9	2.3
10°-20°	1222.4	6.1
20°-30°	2142.7	10.6
30°-40°	3533.0	17.5
40°-50°	5141.0	25.5
50°-60°	5825.3	28.9
60°-70°	1665.5	8.3
70°-80°	129.3	0.6
80°-90°	26.9	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°	20148.0	100.0
0°-180°	20148.0	100.0

Coefficient of Utilization



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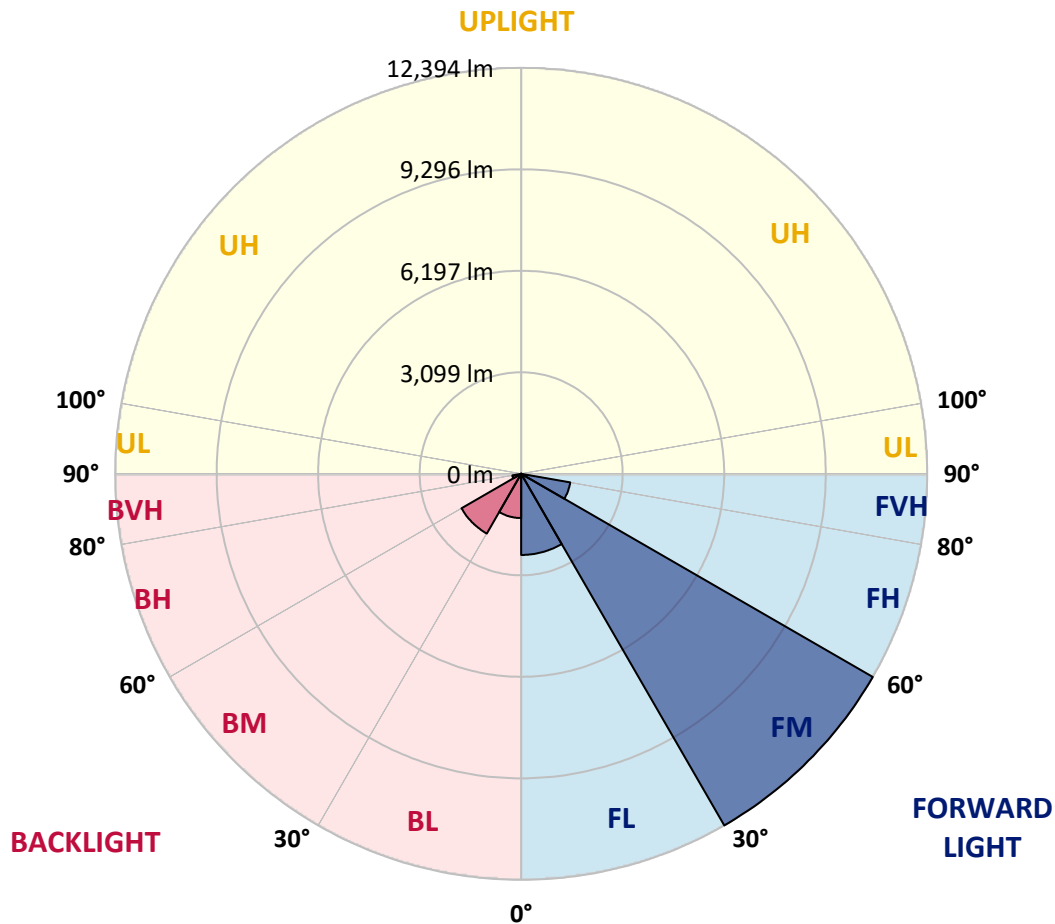
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2476.8	12.3			
FM	(30°-60°)	12394.2	61.5			
FH	(60°-80°)	1521.7	7.6			G1/1800
FVH	(80°-90°)	13.1	0.1			G1/100
BL	(0°-30°)	1350.2	6.7	B3/2500		
BM	(30°-60°)	2105.1	10.4	B2/2500		
BH	(60°-80°)	273.2	1.4	B1/500		G1/500
BVH	(80°-90°)	13.8	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°	5180.1	5180.1	5180.1	5180.1	5180.1	5180.1	5180.1	5180.1	5180.1	5180.1	5180.1
2.5°	4870.3	4917.1	4924.3	4981.9	4978.3	5075.6	5104.4	5108.0	5172.9	5140.4	5223.3
5°	4733.4	4708.2	4697.4	4798.2	4827.0	4913.5	4985.5	5028.8	5162.1	5208.9	5295.3
7.5°	4610.9	4610.9	4618.1	4708.2	4697.4	4809.0	4884.7	5018.0	5212.5	5252.1	5356.6
10°	4492.0	4448.8	4502.8	4596.5	4675.7	4726.2	4884.7	5010.8	5237.7	5353.0	5497.1
12.5°	4430.8	4452.4	4459.6	4528.1	4614.5	4765.8	4852.3	5061.2	5417.8	5486.3	5641.2
15°	4816.2	4773.0	4668.5	4607.3	4679.3	4751.4	4967.5	5180.1	5511.5	5608.7	5781.6
17.5°	5262.9	5226.9	5140.4	4974.7	4812.6	4945.9	5115.2	5309.7	5612.3	5756.4	6012.2
20°	5846.5	5788.8	5702.4	5378.2	5237.7	5093.6	5273.7	5504.3	5778.0	5907.7	6170.7
22.5°	6541.7	6541.7	6347.2	5954.6	5662.8	5525.9	5601.5	5734.8	5961.8	6138.3	6397.6
25°	7265.8	7244.2	7067.7	6660.6	6167.1	6005.0	6091.4	6185.1	6246.3	6343.6	6516.5
27.5°	8094.3	7968.2	7744.9	7294.6	6858.7	6545.3	6639.0	6556.1	6480.5	6530.9	6779.5
30°	8656.3	8735.5	8450.9	8018.7	7608.0	7258.6	7276.6	7204.5	6858.7	6930.8	7078.5
32.5°	9239.8	9290.3	9131.8	8894.0	8483.3	8076.3	7928.6	7867.4	7608.0	7640.4	7496.3
35°	9726.1	9823.4	9682.9	9578.4	9459.6	9131.8	8724.7	8922.8	8505.0	8425.7	8051.1
37.5°	10172.8	10144.0	10309.7	10201.6	10176.4	9945.9	9499.2	9538.8	9257.8	9239.8	8807.5
40°	10572.7	10579.9	10806.8	10857.2	10756.4	10345.7	9697.3	10010.7	10237.6	10259.3	9704.5
42.5°	10904.1	11001.3	11195.9	11602.9	11451.6	10767.2	9902.6	10244.9	11087.8	11221.1	10554.6
45°	11192.2	11390.4	11631.7	11995.6	11909.1	11365.2	10414.2	10727.6	11995.6	12345.0	11354.4
47.5°	11210.3	11469.6	11732.6	12272.9	12381.0	11685.8	10943.7	11491.2	12716.0	13094.2	11937.9
50°	11138.2	11275.1	11801.0	12388.2	12633.2	12208.1	11685.8	12132.4	13414.8	13652.6	12233.3
52.5°	10284.5	10388.9	11444.4	12496.3	13087.0	12798.9	12669.2	13025.8	14128.1	14304.6	12510.7
55°	8573.4	8555.4	10007.1	11952.3	13296.0	13674.2	13595.0	13721.0	14953.0	15111.5	12579.1
57.5°	5864.5	6192.3	7445.9	9953.1	12017.2	13468.9	13551.7	13342.8	13991.2	14052.5	10965.3
60°	3162.8	3299.7	4308.3	6642.6	9149.8	10976.1	11192.2	10814.0	10763.6	10590.7	7827.7
62.5°	1257.2	1325.6	1898.4	3288.9	4985.5	6671.4	7136.1	6981.2	6649.8	6195.9	4052.6
65°	598.0	641.2	943.8	1538.2	2211.8	2781.0	3245.6	3389.7	2500.0	2251.4	1336.4
67.5°	407.1	439.5	688.0	879.0	788.9	824.9	1073.5	997.8	587.2	500.7	371.0
70°	309.8	331.4	551.1	598.0	353.0	248.6	277.4	259.4	241.4	245.0	241.4
72.5°	219.7	237.7	403.5	353.0	154.9	115.3	147.7	176.5	176.5	176.5	172.9
75°	133.3	151.3	234.1	136.9	61.2	61.2	93.7	118.9	126.1	129.7	122.5
77.5°	68.4	86.5	79.2	39.6	39.6	46.8	68.4	82.9	90.1	90.1	86.5
80°	14.4	14.4	14.4	21.6	39.6	50.4	68.4	75.6	86.5	86.5	79.2
82.5°	0.0	3.6	10.8	21.6	36.0	46.8	64.8	75.6	86.5	90.1	82.9
85°	0.0	3.6	7.2	14.4	25.2	28.8	25.2	21.6	21.6	21.6	21.6
87.5°	0.0	0.0	3.6	3.6	3.6	7.2	7.2	7.2	7.2	7.2	7.2
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°	5180.1	5180.1	5180.1	5180.1	5180.1	5180.1	5180.1	5180.1	5180.1	5180.1	5180.1
2.5°	5230.5	5241.3	5223.3	5219.7	5205.3	5248.5	5144.0	5118.8	5183.7	5122.4	5136.8
5°	5298.9	5324.2	5291.7	5237.7	5158.4	5036.0	4931.5	4794.6	4729.8	4682.9	4675.7
7.5°	5349.4	5367.4	5335.0	5162.1	4924.3	4614.5	4384.0	4214.7	4081.4	4041.7	3976.9
10°	5554.7	5558.3	5396.2	5014.4	4549.7	4142.6	3789.6	3530.2	3396.9	3314.1	3278.1
12.5°	5691.6	5684.4	5356.6	4722.6	4103.0	3562.6	3159.2	2845.8	2723.3	2683.7	2658.5
15°	5864.5	5824.9	5262.9	4423.6	3526.6	2943.1	2579.2	2363.1	2352.3	2327.1	2352.3
17.5°	6001.4	5889.7	5126.0	3879.6	2975.5	2424.3	2186.6	2201.0	2229.8	2255.0	2258.6
20°	6224.7	5994.2	4812.6	3404.1	2464.0	2078.5	2074.9	2139.7	2211.8	2240.6	2269.4
22.5°	6394.0	6037.4	4477.6	2896.2	2046.1	1938.0	1999.3	2096.5	2150.6	2179.4	2222.6
25°	6455.3	5918.5	4030.9	2388.3	1844.4	1873.2	1966.8	2031.7	2100.1	2132.5	2114.5
27.5°	6516.5	5857.3	3497.8	1966.8	1736.3	1830.0	1909.2	1974.0	1995.7	2038.9	2067.7
30°	6664.2	5644.8	3018.7	1700.3	1682.3	1801.1	1858.8	1880.4	1938.0	1963.2	1963.2
32.5°	6783.1	5561.9	2510.8	1574.2	1675.1	1815.5	1822.7	1822.7	1830.0	1811.9	1804.7
35°	7028.0	5277.3	2056.9	1498.5	1671.5	1819.1	1837.2	1775.9	1610.2	1545.4	1527.4
37.5°	7330.6	5093.6	1721.9	1480.5	1696.7	1862.4	1891.2	1660.6	1444.5	1340.0	1322.0
40°	7698.0	4963.9	1502.1	1473.3	1754.3	1963.2	1876.8	1570.6	1289.6	1138.3	1131.1
42.5°	8126.7	4845.1	1354.5	1469.7	1826.4	2067.7	1862.4	1494.9	1131.1	1030.2	1044.7
45°	8468.9	4780.2	1253.6	1444.5	1851.6	2128.9	1873.2	1361.7	1066.3	1001.4	1008.6
47.5°	8735.5	4643.3	1170.7	1401.3	1848.0	2150.6	1775.9	1307.6	1033.9	1051.9	1069.9
50°	8742.7	4459.6	1066.3	1307.6	1793.9	2110.9	1664.2	1257.2	1026.6	1102.3	1138.3
52.5°	8645.4	4200.2	954.6	1174.3	1667.9	1974.0	1563.4	1235.6	994.2	987.0	1030.2
55°	8299.6	3713.9	767.3	951.0	1408.5	1628.2	1473.3	1196.0	897.0	814.1	821.3
57.5°	6707.4	2662.1	565.6	680.8	997.8	1192.4	1329.2	1177.9	806.9	691.6	695.2
60°	4153.4	1509.4	414.3	464.7	616.0	724.1	1077.1	1095.1	720.5	583.6	576.4
62.5°	2132.5	745.7	320.6	327.8	378.2	425.1	738.5	918.6	652.0	554.7	554.7
65°	713.2	367.4	281.0	252.2	252.2	263.0	446.7	637.6	551.1	464.7	464.7
67.5°	306.2	273.8	245.0	219.7	201.7	190.9	252.2	371.0	410.7	353.0	338.6
70°	237.7	230.5	212.5	183.7	158.5	144.1	147.7	190.9	234.1	226.9	219.7
72.5°	176.5	176.5	169.3	144.1	122.5	104.5	97.3	100.9	111.7	115.3	118.9
75°	122.5	126.1	126.1	111.7	90.1	75.6	64.8	54.0	43.2	36.0	32.4
77.5°	82.9	86.5	93.7	82.9	68.4	50.4	39.6	28.8	18.0	7.2	7.2
80°	72.0	82.9	90.1	82.9	72.0	54.0	39.6	21.6	10.8	0.0	0.0
82.5°	75.6	82.9	93.7	79.2	68.4	50.4	39.6	25.2	10.8	3.6	0.0
85°	18.0	18.0	21.6	25.2	32.4	36.0	28.8	18.0	10.8	3.6	0.0
87.5°	7.2	7.2	7.2	7.2	7.2	3.6	3.6	3.6	3.6	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)