

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: P530299

Luminaire Tested: **GALN-SA5C-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530299
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-SA5C-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 19500 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

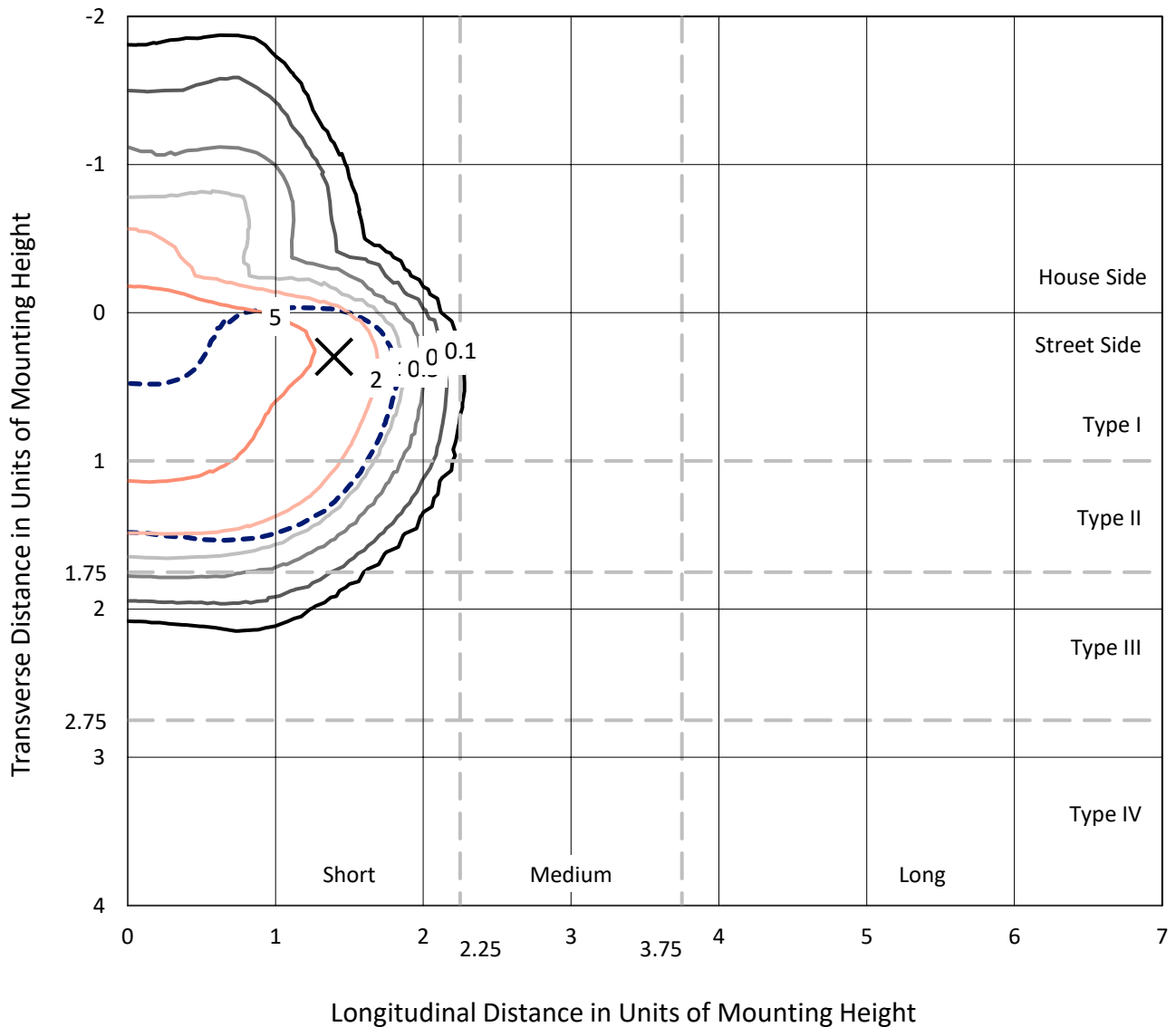
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530299
 CATALOG NUMBER: GALN-SA5C-730-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

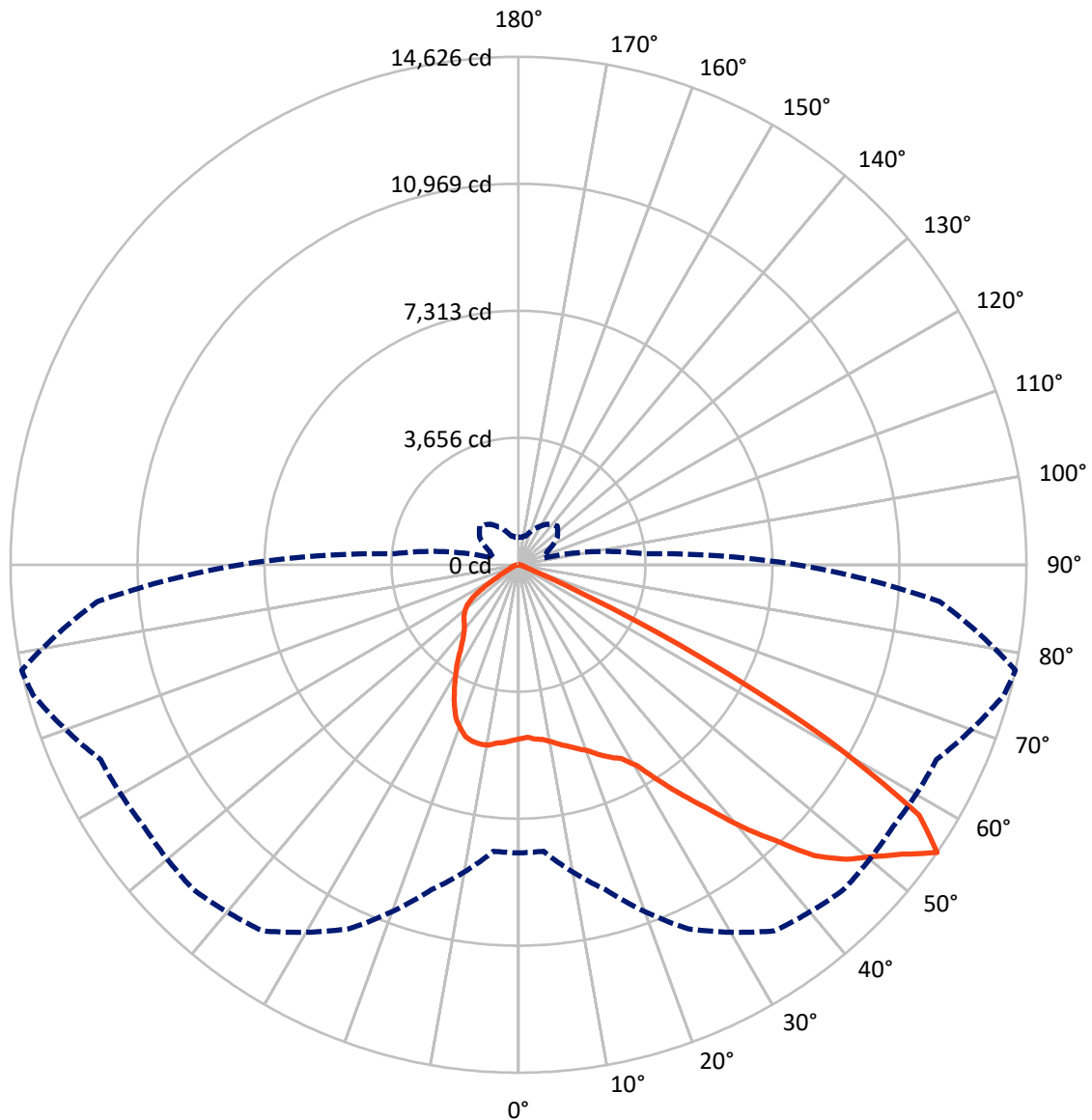
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

REPORT NUMBER: P530299
CATALOG NUMBER: GALN-SA5C-730-U-T3R-GRSBK

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA5C-730-U-T3R-GRSBK

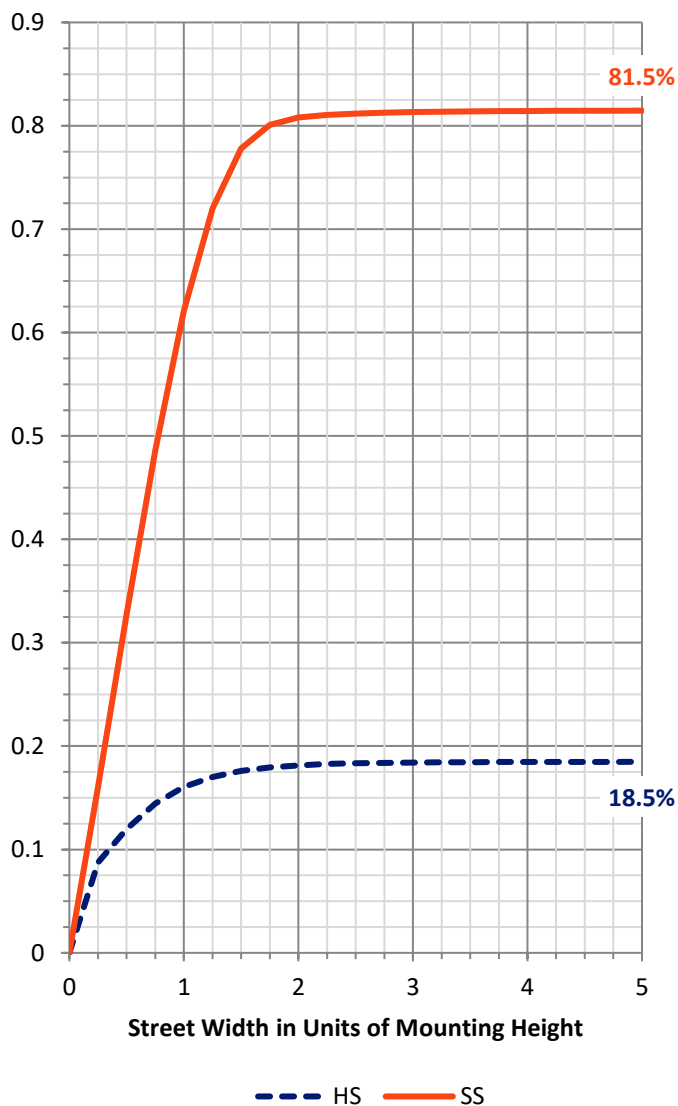
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3621.9	0.0	3621.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15878.1	0.0	15878.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	19500.0	0.0	19500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.0	2.3
10°-20°	1183.1	6.1
20°-30°	2073.8	10.6
30°-40°	3419.4	17.5
40°-50°	4975.6	25.5
50°-60°	5637.9	28.9
60°-70°	1612.0	8.3
70°-80°	125.2	0.6
80°-90°	26.0	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°	19500.0	100.0
0°-180°	19500.0	100.0

Coefficient of Utilization



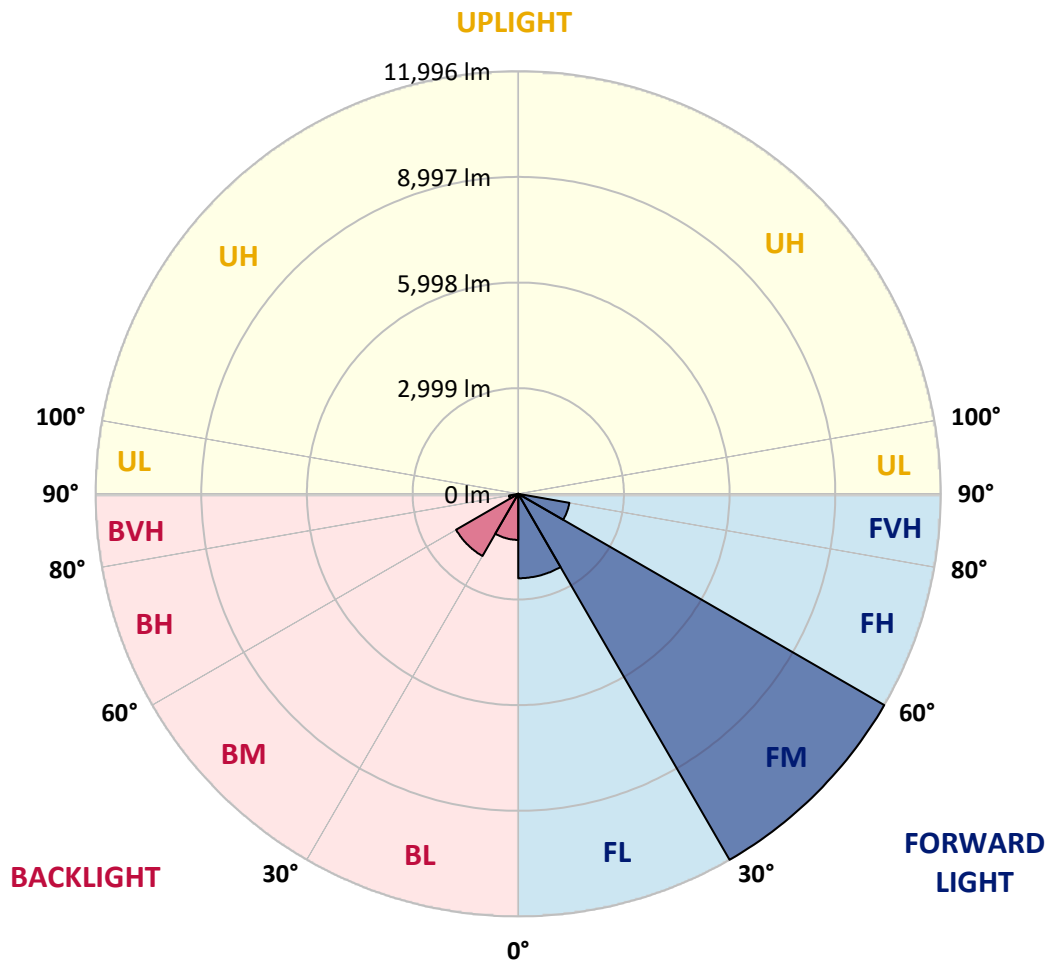
REPORT NUMBER: P530299
 CATALOG NUMBER: GALN-SA5C-730-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2397.1	12.3			
FM (30°-60°)	11995.5	61.5			
FH (60°-80°)	1472.8	7.6			G1/1800
FVH (80°-90°)	12.7	0.1			G1/100
BL (0°-30°)	1306.8	6.7	B3/2500		
BM (30°-60°)	2037.4	10.4	B2/2500		
BH (60°-80°)	264.4	1.4	B1/500		G1/500
BVH (80°-90°)	13.4	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





REPORT NUMBER: P530299

CATALOG NUMBER: GALN-SA5C-730-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5013.5	5013.5	5013.5	5013.5	5013.5	5013.5	5013.5	5013.5	5013.5	5013.5	5013.5
2.5°	4713.6	4759.0	4765.9	4821.7	4818.2	4912.4	4940.2	4943.7	5006.5	4975.1	5055.3
5°	4581.1	4556.7	4546.3	4643.9	4671.8	4755.5	4825.2	4867.0	4996.0	5041.4	5125.0
7.5°	4462.6	4462.6	4469.6	4556.7	4546.3	4654.4	4727.6	4856.6	5044.8	5083.2	5184.3
10°	4347.6	4305.7	4358.0	4448.7	4525.4	4574.2	4727.6	4849.6	5069.2	5180.8	5320.3
12.5°	4288.3	4309.2	4316.2	4382.4	4466.1	4612.5	4696.2	4898.4	5243.6	5309.8	5459.7
15°	4661.3	4619.5	4518.4	4459.1	4528.9	4598.6	4807.8	5013.5	5334.2	5428.3	5595.7
17.5°	5093.6	5058.8	4975.1	4814.7	4657.8	4786.8	4950.7	5139.0	5431.8	5571.3	5818.8
20°	5658.4	5602.7	5519.0	5205.2	5069.2	4929.8	5104.1	5327.2	5592.2	5717.7	5972.2
22.5°	6331.3	6331.3	6143.1	5763.0	5480.6	5348.2	5421.4	5550.4	5770.0	5940.8	6191.9
25°	7032.1	7011.2	6840.3	6446.4	5968.7	5811.8	5895.5	5986.2	6045.4	6139.6	6306.9
27.5°	7834.0	7711.9	7495.8	7060.0	6638.1	6334.8	6425.5	6345.3	6272.1	6320.9	6561.4
30°	8377.8	8454.6	8179.1	7760.8	7363.3	7025.1	7042.6	6972.8	6638.1	6707.9	6850.8
32.5°	8942.6	8991.5	8838.1	8608.0	8210.5	7816.5	7673.6	7614.3	7363.3	7394.7	7255.2
35°	9413.3	9507.4	9371.5	9270.4	9155.3	8838.1	8444.1	8635.8	8231.4	8154.7	7792.1
37.5°	9845.6	9817.7	9978.1	9873.5	9849.1	9626.0	9193.7	9232.0	8960.1	8942.6	8524.3
40°	10232.6	10239.6	10459.2	10508.0	10410.4	10013.0	9385.4	9688.7	9908.4	9929.3	9392.4
42.5°	10553.4	10647.5	10835.8	11229.7	11083.3	10420.9	9584.1	9915.4	10731.2	10860.2	10215.2
45°	10832.3	11024.0	11257.6	11609.8	11526.1	10999.6	10079.2	10382.5	11609.8	11947.9	10989.2
47.5°	10849.7	11100.7	11355.2	11878.2	11982.8	11309.9	10591.7	11121.7	12307.0	12673.1	11554.0
50°	10780.0	10912.5	11421.5	11989.8	12226.8	11815.5	11309.9	11742.2	12983.4	13213.5	11839.9
52.5°	9953.7	10054.8	11076.3	12094.4	12666.1	12387.2	12261.7	12606.9	13673.7	13844.5	12108.3
55°	8297.7	8280.2	9685.3	11567.9	12868.3	13234.4	13157.7	13279.7	14472.1	14625.5	12174.6
57.5°	5675.9	5993.1	7206.4	9633.0	11630.7	13035.7	13115.9	12913.7	13541.2	13600.5	10612.6
60°	3061.1	3193.6	4169.7	6428.9	8855.5	10623.1	10832.3	10466.2	10417.4	10250.1	7576.0
62.5°	1216.8	1283.0	1837.3	3183.1	4825.2	6456.8	6906.6	6756.7	6435.9	5996.6	3922.2
65°	578.7	620.6	913.4	1488.7	2140.7	2691.5	3141.3	3280.7	2419.6	2179.0	1293.5
67.5°	394.0	425.3	665.9	850.7	763.5	798.4	1039.0	965.7	568.3	484.6	359.1
70°	299.8	320.7	533.4	578.7	341.7	240.6	268.5	251.0	233.6	237.1	233.6
72.5°	212.7	230.1	390.5	341.7	149.9	111.6	142.9	170.8	170.8	170.8	167.3
75°	129.0	146.4	226.6	132.5	59.3	59.3	90.6	115.1	122.0	125.5	118.5
77.5°	66.2	83.7	76.7	38.4	38.4	45.3	66.2	80.2	87.2	87.2	83.7
80°	13.9	13.9	13.9	20.9	38.4	48.8	66.2	73.2	83.7	83.7	76.7
82.5°	0.0	3.5	10.5	20.9	34.9	45.3	62.8	73.2	83.7	87.2	80.2
85°	0.0	3.5	7.0	13.9	24.4	27.9	24.4	20.9	20.9	20.9	20.9
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°	5013.5	5013.5	5013.5	5013.5	5013.5	5013.5	5013.5	5013.5	5013.5	5013.5	5013.5
2.5°	5062.3	5072.7	5055.3	5051.8	5037.9	5079.7	4978.6	4954.2	5016.9	4957.7	4971.6
5°	5128.5	5152.9	5121.5	5069.2	4992.5	4874.0	4772.9	4640.4	4577.7	4532.3	4525.4
7.5°	5177.3	5194.8	5163.4	4996.0	4765.9	4466.1	4243.0	4079.1	3950.1	3911.8	3849.0
10°	5376.0	5379.5	5222.6	4853.1	4403.3	4009.4	3667.7	3416.7	3287.7	3207.5	3172.6
12.5°	5508.5	5501.6	5184.3	4570.7	3971.0	3448.1	3057.6	2754.3	2635.7	2597.4	2573.0
15°	5675.9	5637.5	5093.6	4281.3	3413.2	2848.4	2496.3	2287.1	2276.6	2252.2	2276.6
17.5°	5808.4	5700.3	4961.2	3754.9	2879.8	2346.4	2116.3	2130.2	2158.1	2182.5	2186.0
20°	6024.5	5801.4	4657.8	3294.7	2384.7	2011.7	2008.2	2070.9	2140.7	2168.5	2196.4
22.5°	6188.4	5843.2	4333.6	2803.1	1980.3	1875.7	1935.0	2029.1	2081.4	2109.3	2151.1
25°	6247.7	5728.2	3901.3	2311.5	1785.0	1812.9	1903.6	1966.3	2032.6	2064.0	2046.5
27.5°	6306.9	5668.9	3385.3	1903.6	1680.5	1771.1	1847.8	1910.6	1931.5	1973.3	2001.2
30°	6449.9	5463.2	2921.6	1645.6	1628.2	1743.2	1799.0	1819.9	1875.7	1900.1	1900.1
32.5°	6564.9	5383.0	2430.0	1523.6	1621.2	1757.2	1764.1	1764.1	1771.1	1753.7	1746.7
35°	6802.0	5107.6	1990.7	1450.3	1617.7	1760.6	1778.1	1718.8	1558.4	1495.7	1478.2
37.5°	7094.8	4929.8	1666.5	1432.9	1642.1	1802.5	1830.4	1607.2	1398.1	1296.9	1279.5
40°	7450.5	4804.3	1453.8	1425.9	1697.9	1900.1	1816.4	1520.1	1248.1	1101.7	1094.7
42.5°	7865.3	4689.2	1310.9	1422.5	1767.6	2001.2	1802.5	1446.9	1094.7	997.1	1011.1
45°	8196.6	4626.5	1213.3	1398.1	1792.0	2060.5	1812.9	1317.9	1032.0	969.2	976.2
47.5°	8454.6	4494.0	1133.1	1356.2	1788.5	2081.4	1718.8	1265.6	1000.6	1018.0	1035.5
50°	8461.5	4316.2	1032.0	1265.6	1736.2	2043.0	1610.7	1216.8	993.6	1066.8	1101.7
52.5°	8367.4	4065.2	923.9	1136.6	1614.2	1910.6	1513.1	1195.8	962.2	955.3	997.1
55°	8032.7	3594.5	742.6	920.4	1363.2	1575.9	1425.9	1157.5	868.1	787.9	794.9
57.5°	6491.7	2576.5	547.4	658.9	965.7	1154.0	1286.5	1140.1	781.0	669.4	672.9
60°	4019.8	1460.8	400.9	449.7	596.2	700.8	1042.4	1059.9	697.3	564.8	557.8
62.5°	2064.0	721.7	310.3	317.3	366.1	411.4	714.7	889.0	631.0	536.9	536.9
65°	690.3	355.6	271.9	244.0	244.0	254.5	432.3	617.1	533.4	449.7	449.7
67.5°	296.3	265.0	237.1	212.7	195.2	184.8	244.0	359.1	397.5	341.7	327.7
70°	230.1	223.1	205.7	177.8	153.4	139.5	142.9	184.8	226.6	219.6	212.7
72.5°	170.8	170.8	163.9	139.5	118.5	101.1	94.1	97.6	108.1	111.6	115.1
75°	118.5	122.0	122.0	108.1	87.2	73.2	62.8	52.3	41.8	34.9	31.4
77.5°	80.2	83.7	90.6	80.2	66.2	48.8	38.4	27.9	17.4	7.0	7.0
80°	69.7	80.2	87.2	80.2	69.7	52.3	38.4	20.9	10.5	0.0	0.0
82.5°	73.2	80.2	90.6	76.7	66.2	48.8	38.4	24.4	10.5	3.5	0.0
85°	17.4	17.4	20.9	24.4	31.4	34.9	27.9	17.4	10.5	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)