

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: P532639

Luminaire Tested: **GALN-SA8A-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532639
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-SA8A-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 20454 lumens
Efficiency: N/A
Efficacy: 83.8 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

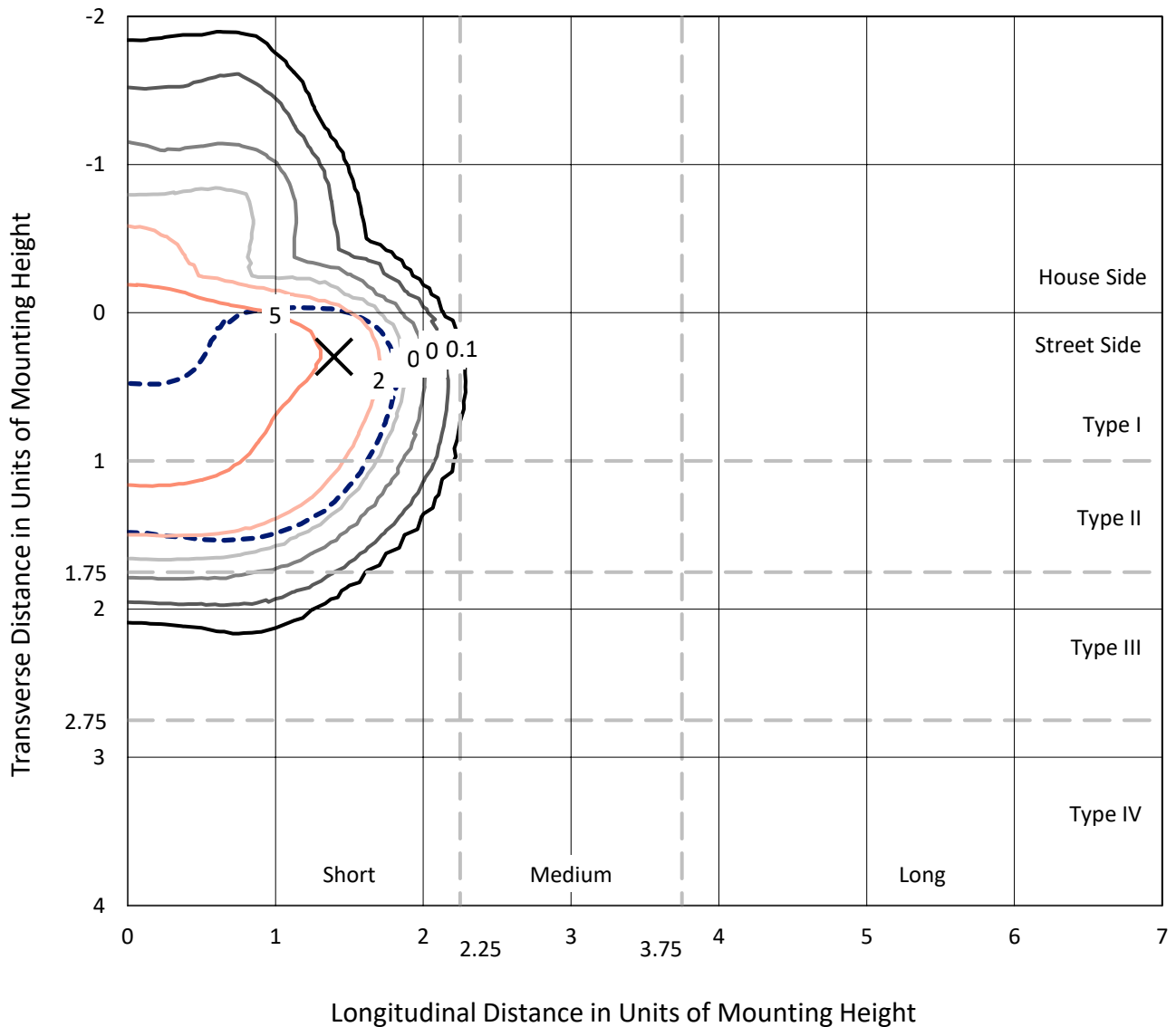
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

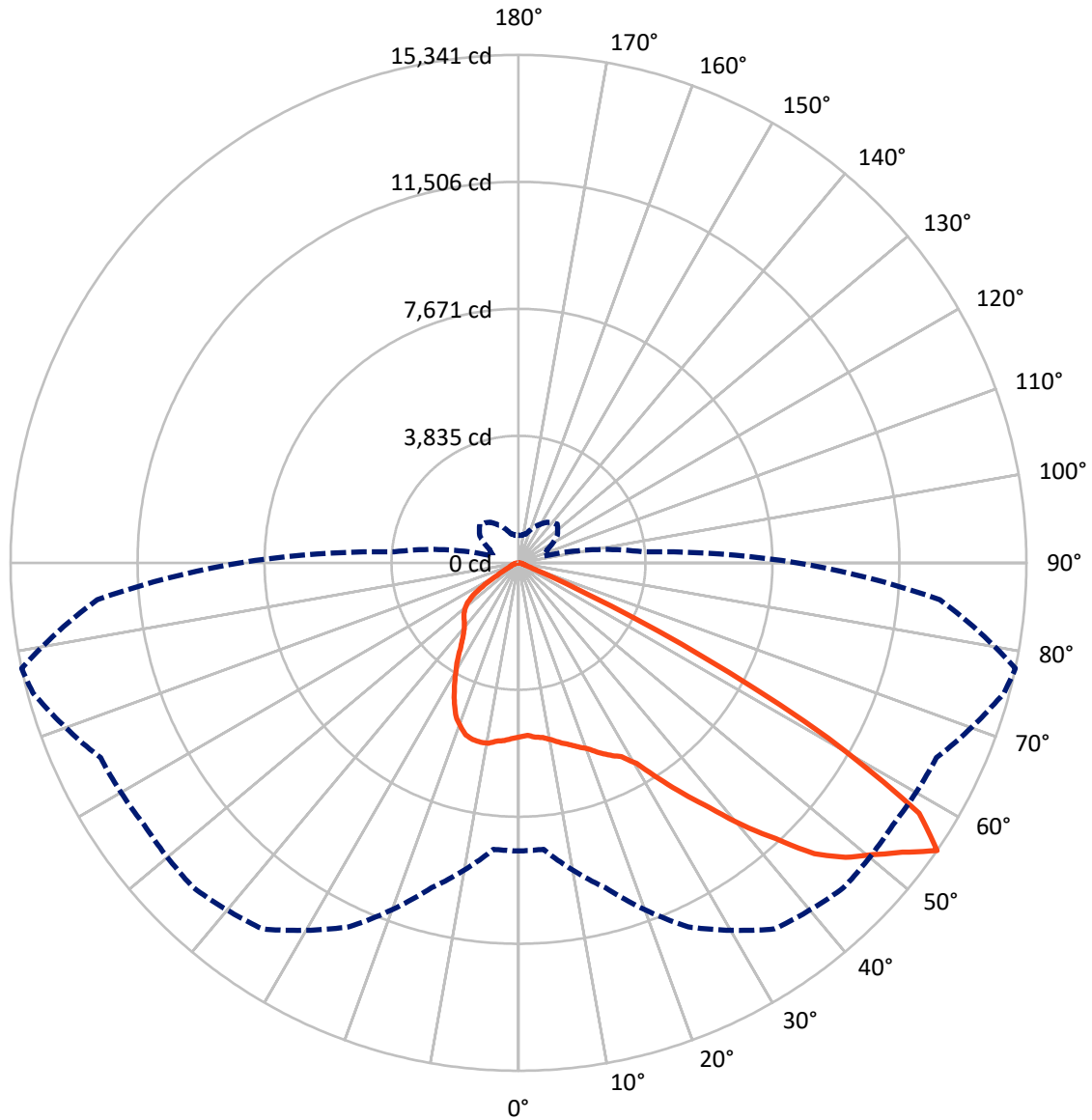
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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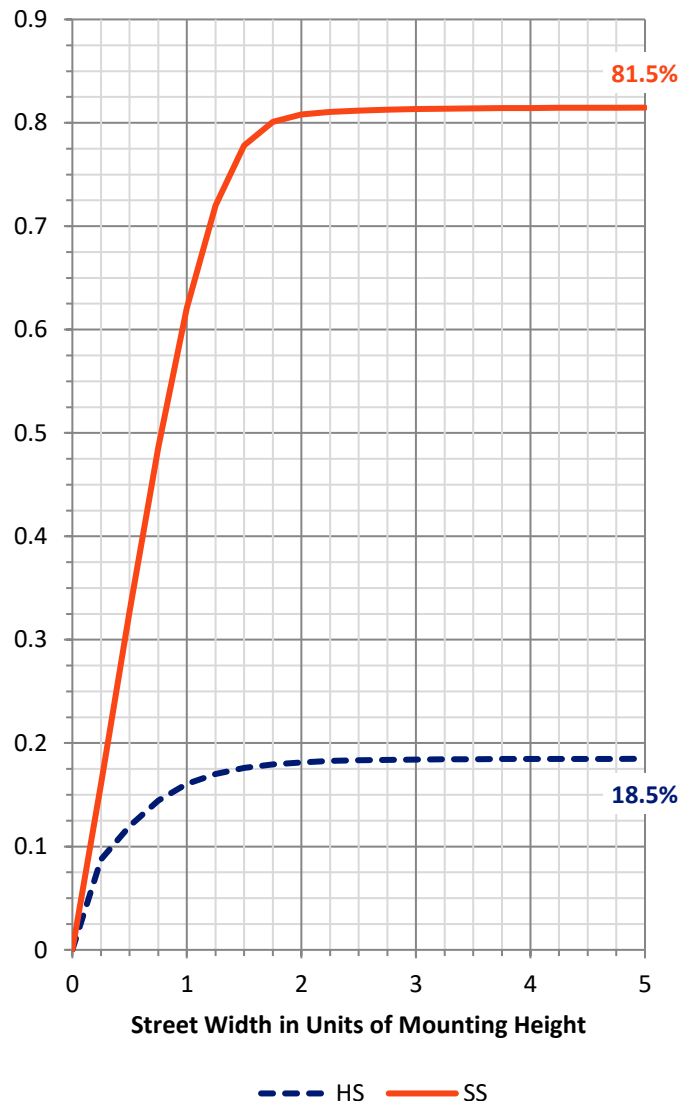
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3799.1	0.0	3799.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16654.9	0.0	16654.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	20454.0	0.0	20454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.9	2.3
10°-20°	1241.0	6.1
20°-30°	2175.2	10.6
30°-40°	3586.7	17.5
40°-50°	5219.0	25.5
50°-60°	5913.7	28.9
60°-70°	1690.8	8.3
70°-80°	131.3	0.6
80°-90°	27.3	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°	20454.0	100.0
0°-180°	20454.0	100.0

Coefficient of Utilization

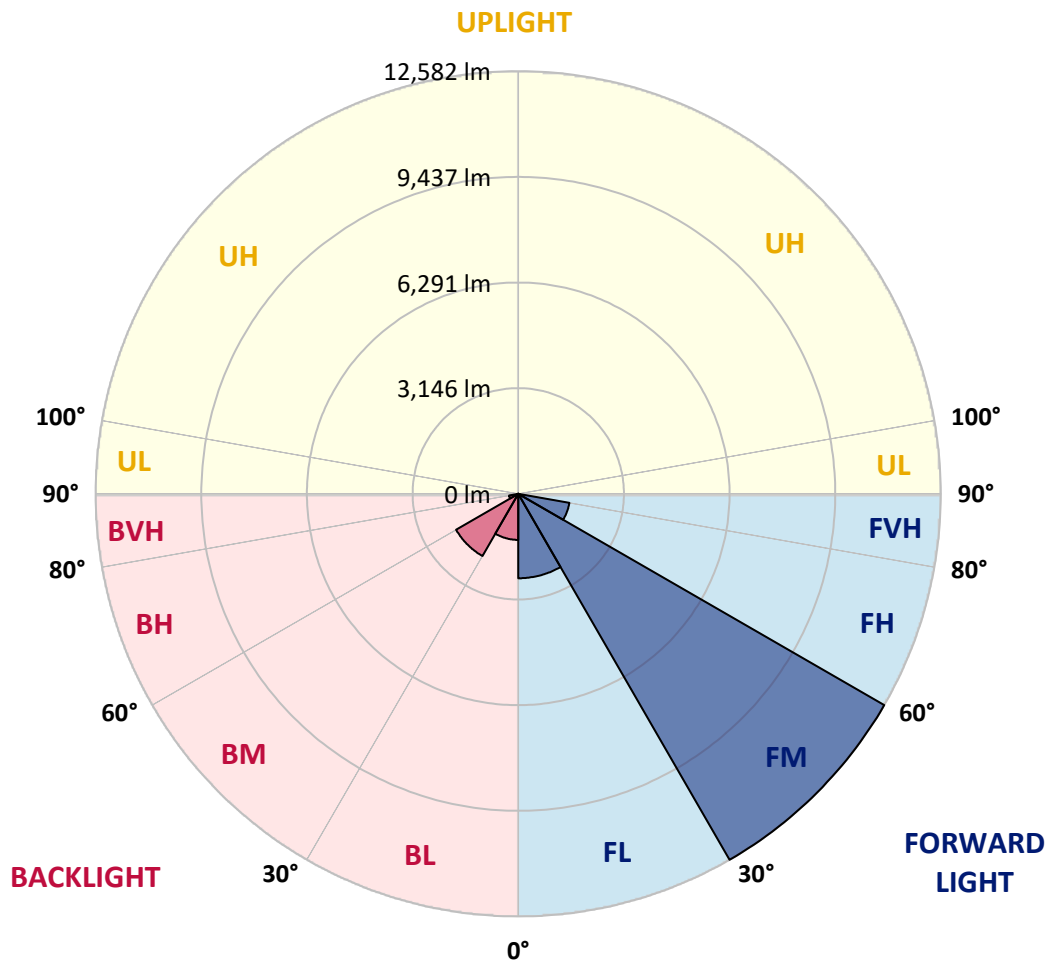


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2514.4	12.3			
FM (30°-60°)	12582.4	61.5			
FH (60°-80°)	1544.8	7.6			G1/1800
FVH (80°-90°)	13.3	0.1			G1/100
BL (0°-30°)	1370.7	6.7	B3/2500		
BM (30°-60°)	2137.0	10.4	B2/2500		
BH (60°-80°)	277.3	1.4	B1/500		G1/500
BVH (80°-90°)	14.0	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°	5258.7	5258.7	5258.7	5258.7	5258.7	5258.7	5258.7	5258.7	5258.7	5258.7	5258.7
2.5°	4944.2	4991.8	4999.1	5057.6	5053.9	5152.7	5181.9	5185.6	5251.4	5218.5	5302.6
5°	4805.3	4779.7	4768.7	4871.1	4900.4	4988.1	5061.3	5105.1	5240.5	5288.0	5375.8
7.5°	4680.9	4680.9	4688.2	4779.7	4768.7	4882.1	4958.9	5094.2	5291.6	5331.9	5437.9
10°	4560.3	4516.4	4571.2	4666.3	4746.8	4798.0	4958.9	5086.9	5317.2	5434.3	5580.5
12.5°	4498.1	4520.0	4527.3	4596.8	4684.6	4838.2	4926.0	5138.1	5500.1	5569.6	5726.8
15°	4889.4	4845.5	4739.4	4677.3	4750.4	4823.6	5043.0	5258.7	5595.2	5693.9	5869.5
17.5°	5342.8	5306.3	5218.5	5050.3	4885.7	5021.0	5192.9	5390.4	5697.6	5843.9	6103.5
20°	5935.3	5876.8	5789.0	5459.9	5317.2	5171.0	5353.8	5587.9	5865.8	5997.4	6264.4
22.5°	6641.1	6641.1	6443.6	6045.0	5748.8	5609.8	5686.6	5821.9	6052.3	6231.5	6494.8
25°	7376.1	7354.2	7175.0	6761.8	6260.7	6096.2	6184.0	6279.0	6341.2	6439.9	6615.5
27.5°	8217.2	8089.2	7862.5	7405.4	6962.9	6644.7	6739.8	6655.7	6578.9	6630.1	6882.4
30°	8787.7	8868.2	8579.3	8140.4	7723.5	7368.8	7387.1	7314.0	6962.9	7036.0	7186.0
32.5°	9380.2	9431.3	9270.4	9029.1	8612.2	8198.9	8049.0	7986.8	7723.5	7756.5	7610.2
35°	9873.8	9972.6	9830.0	9723.9	9603.2	9270.4	8857.2	9058.3	8634.1	8553.7	8173.3
37.5°	10327.3	10298.1	10466.3	10356.6	10331.0	10096.9	9643.5	9683.7	9398.4	9380.2	8941.3
40°	10733.2	10740.5	10970.9	11022.1	10919.7	10502.8	9844.6	10162.7	10393.1	10415.1	9851.9
42.5°	11069.7	11168.4	11365.9	11779.1	11625.5	10930.7	10053.0	10400.4	11256.2	11391.5	10714.9
45°	11362.2	11563.4	11808.4	12177.7	12090.0	11537.8	10572.3	10890.5	12177.7	12532.5	11526.8
47.5°	11380.5	11643.8	11910.8	12459.3	12569.0	11863.2	11109.9	11665.8	12909.1	13293.1	12119.2
50°	11307.4	11446.3	11980.3	12576.3	12825.0	12393.5	11863.2	12316.7	13618.6	13859.9	12419.1
52.5°	10440.7	10546.7	11618.2	12686.1	13285.8	12993.2	12861.6	13223.6	14342.7	14521.9	12700.7
55°	8703.6	8685.3	10159.1	12133.9	13497.9	13881.9	13801.4	13929.4	15180.1	15341.0	12770.2
57.5°	5953.6	6286.3	7559.0	10104.2	12199.7	13673.4	13757.6	13545.4	14203.7	14265.9	11131.8
60°	3210.8	3349.8	4373.7	6743.5	9288.7	11142.8	11362.2	10978.3	10927.1	10751.5	7946.6
62.5°	1276.3	1345.8	1927.2	3338.8	5061.3	6772.7	7244.5	7087.2	6750.8	6290.0	4114.1
65°	607.1	650.9	958.1	1561.5	2245.4	2823.2	3294.9	3441.2	2537.9	2285.6	1356.7
67.5°	413.2	446.2	698.5	892.3	800.9	837.4	1089.8	1013.0	596.1	508.3	376.7
70°	314.5	336.4	559.5	607.1	358.4	252.3	281.6	263.3	245.0	248.7	245.0
72.5°	223.1	241.4	409.6	358.4	157.3	117.0	149.9	179.2	179.2	179.2	175.5
75°	135.3	153.6	237.7	139.0	62.2	62.2	95.1	120.7	128.0	131.7	124.3
77.5°	69.5	87.8	80.5	40.2	40.2	47.5	69.5	84.1	91.4	91.4	87.8
80°	14.6	14.6	14.6	21.9	40.2	51.2	69.5	76.8	87.8	87.8	80.5
82.5°	0.0	3.7	11.0	21.9	36.6	47.5	65.8	76.8	87.8	91.4	84.1
85°	0.0	3.7	7.3	14.6	25.6	29.3	25.6	21.9	21.9	21.9	21.9
87.5°	0.0	0.0	3.7	3.7	3.7	7.3	7.3	7.3	7.3	7.3	7.3
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°	5258.7	5258.7	5258.7	5258.7	5258.7	5258.7	5258.7	5258.7	5258.7	5258.7	5258.7
2.5°	5309.9	5320.9	5302.6	5299.0	5284.3	5328.2	5222.2	5196.6	5262.4	5200.2	5214.9
5°	5379.4	5405.0	5372.1	5317.2	5236.8	5112.5	5006.4	4867.4	4801.6	4754.1	4746.8
7.5°	5430.6	5448.9	5416.0	5240.5	4999.1	4684.6	4450.5	4278.7	4143.4	4103.1	4037.3
10°	5639.1	5642.7	5478.2	5090.5	4618.8	4205.5	3847.1	3583.8	3448.5	3364.4	3327.9
12.5°	5778.0	5770.7	5437.9	4794.3	4165.3	3616.8	3207.2	2889.0	2764.7	2724.4	2698.9
15°	5953.6	5913.3	5342.8	4490.8	3580.2	2987.8	2618.4	2399.0	2388.0	2362.4	2388.0
17.5°	6092.5	5979.2	5203.9	3938.6	3020.7	2461.1	2219.8	2234.4	2263.7	2289.3	2292.9
20°	6319.3	6085.2	4885.7	3455.8	2501.4	2110.1	2106.4	2172.2	2245.4	2274.6	2303.9
22.5°	6491.1	6129.1	4545.6	2940.2	2077.2	1967.5	2029.6	2128.4	2183.2	2212.5	2256.4
25°	6553.3	6008.4	4092.2	2424.6	1872.4	1901.6	1996.7	2062.5	2132.0	2164.9	2146.6
27.5°	6615.5	5946.2	3550.9	1996.7	1762.7	1857.7	1938.2	2004.0	2026.0	2069.8	2099.1
30°	6765.4	5730.5	3064.5	1726.1	1707.8	1828.5	1887.0	1908.9	1967.5	1993.1	1993.1
32.5°	6886.1	5646.4	2548.9	1598.1	1700.5	1843.1	1850.4	1850.4	1857.7	1839.5	1832.1
35°	7134.8	5357.5	2088.1	1521.3	1696.8	1846.8	1865.1	1802.9	1634.7	1568.8	1550.6
37.5°	7442.0	5171.0	1748.0	1503.0	1722.4	1890.7	1919.9	1685.9	1466.4	1360.4	1342.1
40°	7815.0	5039.3	1525.0	1495.7	1780.9	1993.1	1905.3	1594.4	1309.2	1155.6	1148.3
42.5°	8250.1	4918.6	1375.0	1492.0	1854.1	2099.1	1890.7	1517.6	1148.3	1045.9	1060.5
45°	8597.6	4852.8	1272.6	1466.4	1879.7	2161.3	1901.6	1382.3	1082.5	1016.6	1024.0
47.5°	8868.2	4713.8	1188.5	1422.6	1876.0	2183.2	1802.9	1327.5	1049.6	1067.8	1086.1
50°	8875.5	4527.3	1082.5	1327.5	1821.2	2143.0	1689.5	1276.3	1042.2	1119.0	1155.6
52.5°	8776.7	4264.0	969.1	1192.2	1693.2	2004.0	1587.1	1254.3	1009.3	1002.0	1045.9
55°	8425.7	3770.3	778.9	965.4	1429.9	1653.0	1495.7	1214.1	910.6	826.5	833.8
57.5°	6809.3	2702.5	574.1	691.2	1013.0	1210.5	1349.4	1195.8	819.2	702.1	705.8
60°	4216.5	1532.3	420.6	471.8	625.3	735.1	1093.4	1111.7	731.4	592.4	585.1
62.5°	2164.9	757.0	325.5	332.8	384.0	431.5	749.7	932.5	661.9	563.2	563.2
65°	724.1	373.0	285.2	256.0	256.0	267.0	453.5	647.3	559.5	471.8	471.8
67.5°	310.8	277.9	248.7	223.1	204.8	193.8	256.0	376.7	416.9	358.4	343.8
70°	241.4	234.0	215.8	186.5	160.9	146.3	149.9	193.8	237.7	230.4	223.1
72.5°	179.2	179.2	171.9	146.3	124.3	106.1	98.7	102.4	113.4	117.0	120.7
75°	124.3	128.0	128.0	113.4	91.4	76.8	65.8	54.9	43.9	36.6	32.9
77.5°	84.1	87.8	95.1	84.1	69.5	51.2	40.2	29.3	18.3	7.3	7.3
80°	73.1	84.1	91.4	84.1	73.1	54.9	40.2	21.9	11.0	0.0	0.0
82.5°	76.8	84.1	95.1	80.5	69.5	51.2	40.2	25.6	11.0	3.7	0.0
85°	18.3	18.3	21.9	25.6	32.9	36.6	29.3	18.3	11.0	3.7	0.0
87.5°	7.3	7.3	7.3	7.3	7.3	3.7	3.7	3.7	3.7	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)