

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: P650794

Luminaire Tested: **GALN-SA3C-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14931.9 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

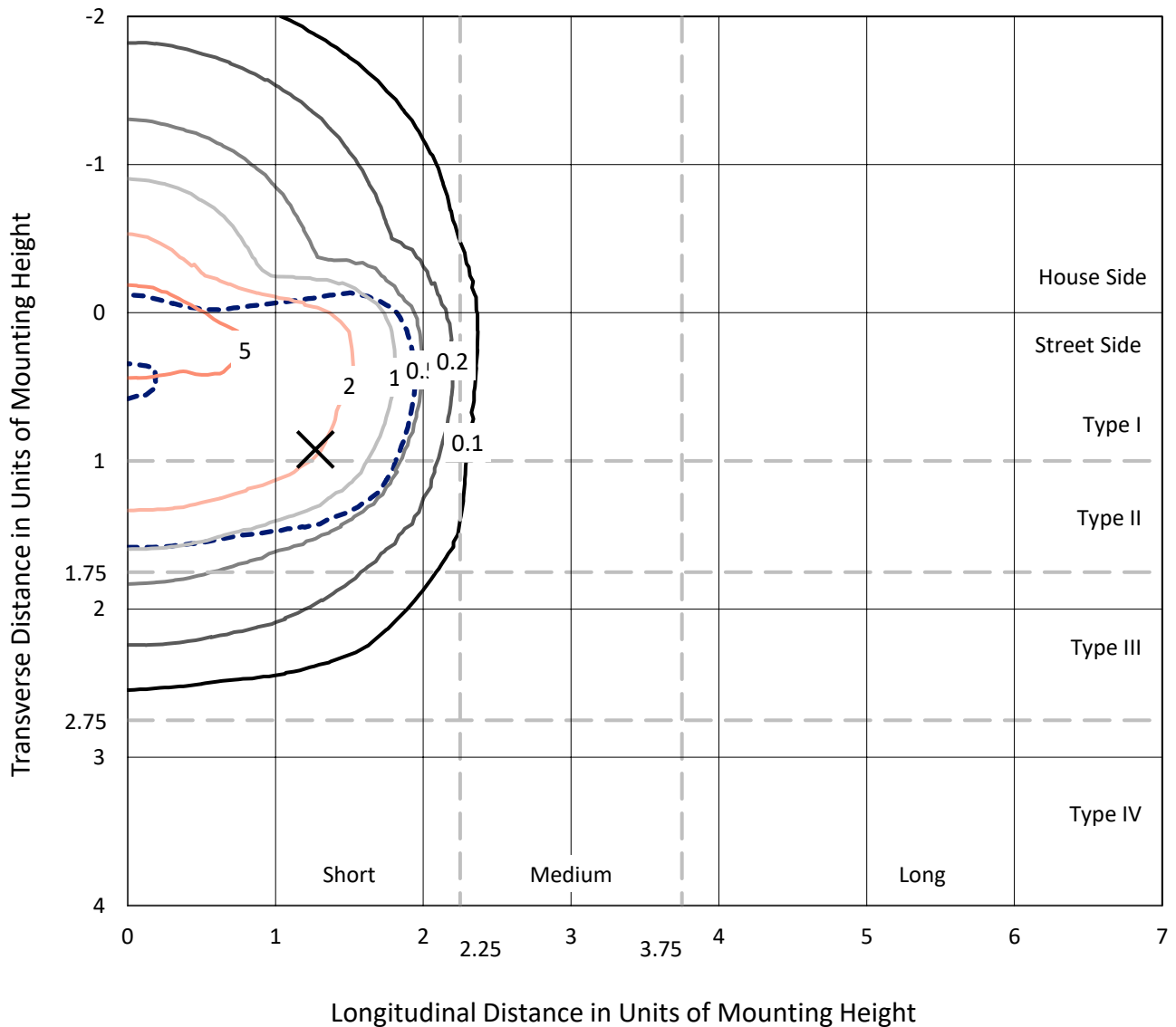
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

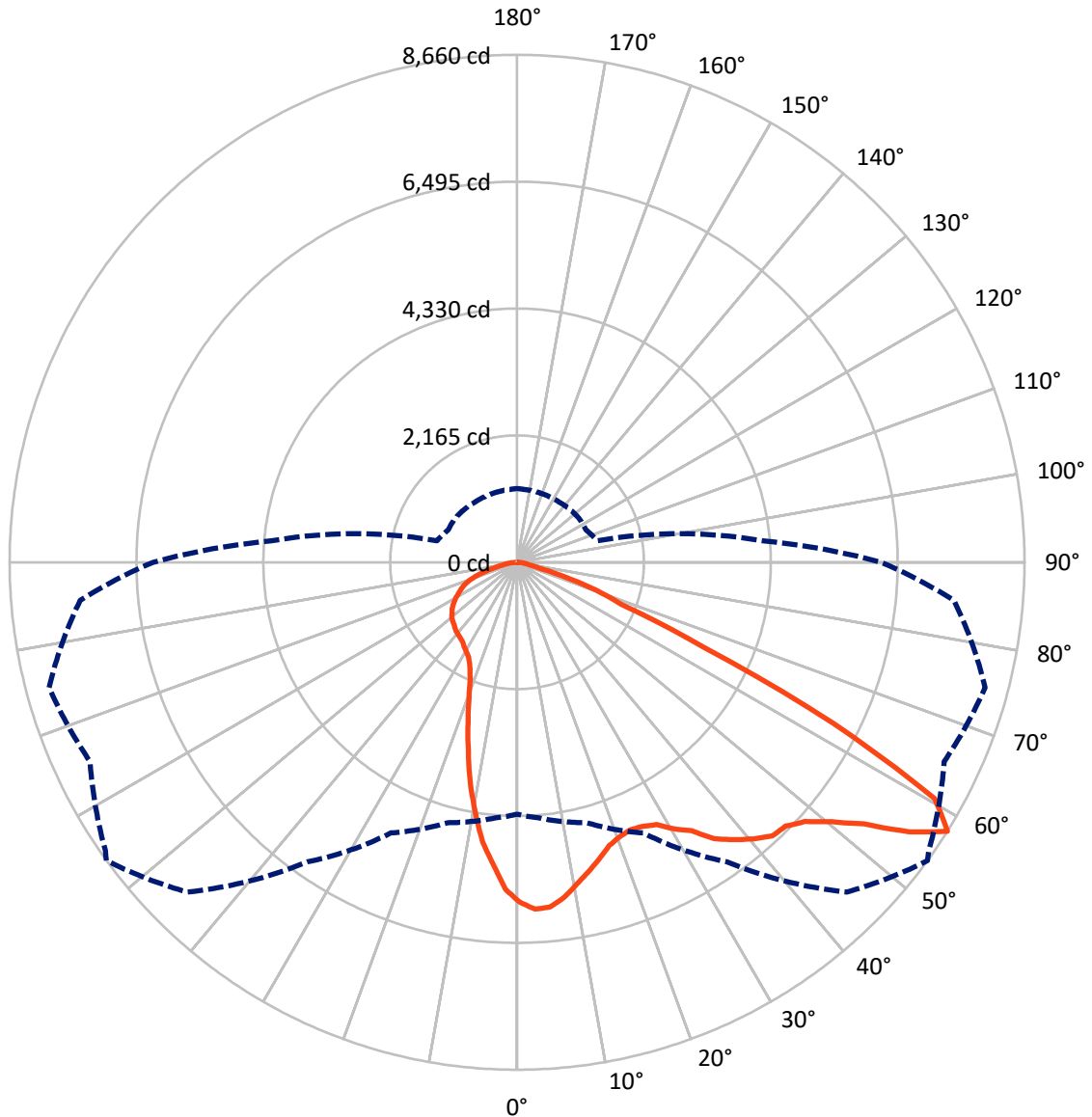
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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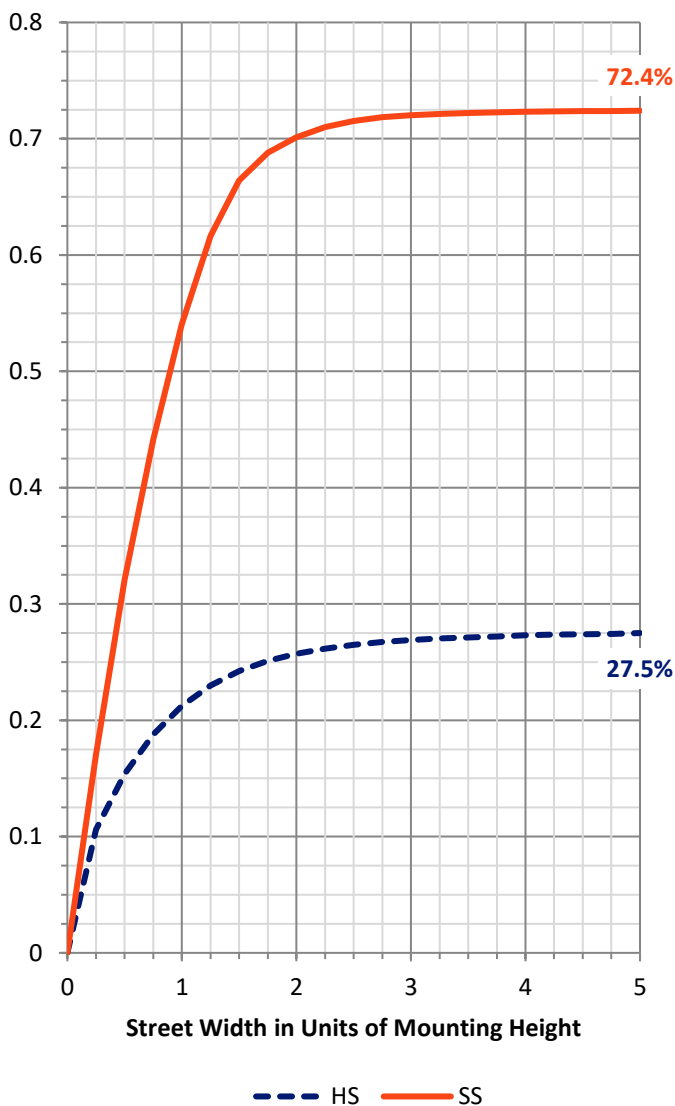
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4131.0	0.0	4131.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	10800.9	0.0	10800.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	14931.9	0.0	14931.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.5	3.4
10°-20°	1158.9	7.8
20°-30°	1628.3	10.9
30°-40°	2276.3	15.2
40°-50°	3081.7	20.6
50°-60°	3753.7	25.1
60°-70°	1955.1	13.1
70°-80°	501.0	3.4
80°-90°	76.4	0.5
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°	14931.9	100.0
0°-180°	14931.9	100.0

Coefficient of Utilization

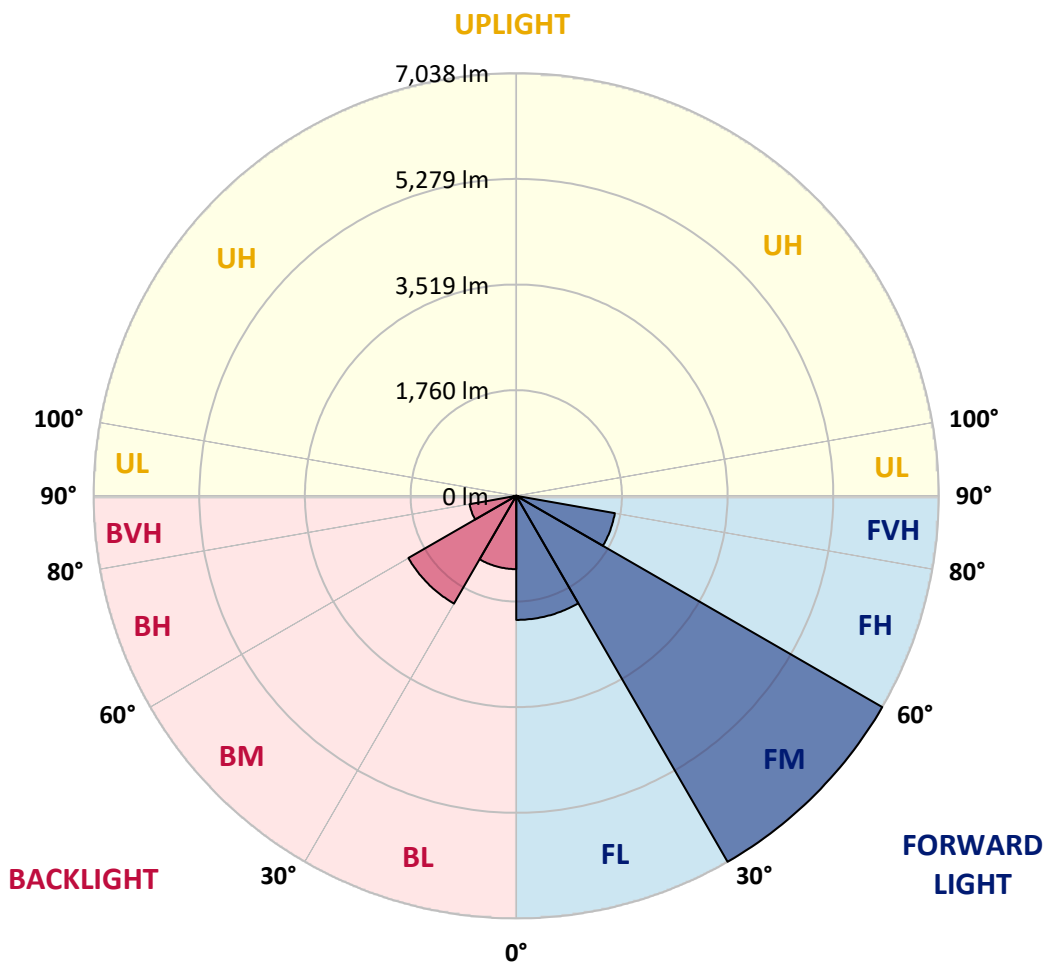


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.8	13.8			
FM (30°-60°)	7038.5	47.1			
FH (60°-80°)	1666.8	11.2			G1/1800
FVH (80°-90°)	28.9	0.2			G1/100
BL (0°-30°)	1220.9	8.2	B3/2500		
BM (30°-60°)	2073.3	13.9	B2/2500		
BH (60°-80°)	789.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	47.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9
2.5°	5968.9	5945.9	5949.7	5980.4	5942.1	5926.7	5926.7	5851.8	5857.6	5805.8	5792.4
5°	5830.7	5777.0	5813.5	5859.5	5867.2	5882.5	5907.5	5888.3	5834.6	5778.9	5688.7
7.5°	5469.9	5517.9	5531.3	5564.0	5633.1	5696.4	5775.1	5721.3	5719.5	5663.8	5610.1
10°	5153.2	5124.5	5197.4	5245.4	5360.5	5466.1	5587.0	5581.2	5610.1	5546.7	5454.6
12.5°	4838.5	4815.5	4850.0	4959.4	5120.6	5274.2	5418.1	5364.4	5517.9	5506.4	5308.7
15°	4504.6	4521.8	4571.7	4673.4	4884.5	5068.8	5251.1	5253.1	5389.3	5435.4	5170.6
17.5°	4270.3	4251.2	4314.5	4466.1	4654.3	4874.9	5082.2	5124.5	5333.6	5360.5	5128.3
20°	4095.8	4122.6	4205.1	4281.9	4498.8	4765.5	4999.7	5015.1	5322.2	5395.1	5061.1
22.5°	4053.5	4038.1	4065.1	4189.8	4368.2	4658.0	4955.6	5013.1	5320.3	5383.6	4934.5
25°	4009.4	4059.3	4057.3	4182.1	4312.6	4571.7	4992.0	5055.3	5421.9	5443.0	4951.7
27.5°	4109.1	4103.4	4157.1	4166.7	4328.0	4594.7	5068.8	5116.8	5590.8	5573.6	4965.2
30°	4209.0	4180.2	4212.8	4326.0	4400.9	4727.2	5279.9	5276.1	5809.6	5798.1	5007.4
32.5°	4331.8	4318.4	4339.5	4439.3	4566.0	4903.7	5458.4	5571.6	6032.2	6105.2	5153.2
35°	4354.9	4410.5	4460.4	4594.7	4775.1	5189.7	5794.3	5888.3	6289.4	6517.8	5431.5
37.5°	4500.7	4521.8	4638.9	4876.9	5042.0	5571.6	6007.3	6066.8	6523.6	6782.7	5725.2
40°	4656.2	4681.1	4857.7	5107.2	5333.6	5821.1	6206.9	6226.1	6598.5	6986.2	5917.1
42.5°	4867.3	4890.3	5064.9	5377.8	5681.0	6034.2	6383.5	6404.6	6592.7	7220.3	6222.3
45°	5086.0	5141.7	5347.1	5702.1	5974.7	6283.7	6423.8	6510.2	6646.4	7429.5	6469.9
47.5°	5393.2	5445.0	5613.8	5961.3	6279.8	6502.5	6610.0	6694.4	6775.0	7611.8	6629.2
50°	5719.5	5729.1	5934.4	6249.1	6483.3	6750.1	6957.3	6986.2	6944.0	7823.0	6899.8
52.5°	5959.3	5990.0	6149.3	6456.4	6805.7	7134.0	7418.0	7448.7	7366.2	7901.6	6991.9
55°	5562.0	5544.8	5803.9	6212.7	7022.6	7705.9	8118.5	8141.6	7673.3	8145.4	7293.2
57.5°	4299.2	4381.7	4602.5	5095.7	6239.5	7959.2	8659.8	8577.2	8041.7	8268.2	7485.2
60°	3124.6	3105.4	3253.2	3583.2	4702.2	6859.4	8187.6	8272.1	7740.4	7452.5	6172.4
62.5°	2545.0	2518.1	2529.6	2541.1	3034.3	4552.5	6061.1	6059.2	5961.3	5356.7	4162.9
65°	2034.5	2097.8	2103.5	2189.9	2253.2	2719.6	3512.3	3700.3	3222.5	2642.8	1917.3
67.5°	1533.5	1510.4	1587.2	1894.4	2013.4	1963.4	1917.3	1938.5	1378.1	994.1	936.6
70°	904.0	894.4	986.5	1320.5	1658.3	1560.4	1445.2	1447.1	946.2	694.8	773.5
72.5°	495.2	493.2	512.4	669.9	942.3	978.8	867.5	894.4	564.2	562.4	604.6
75°	276.4	270.6	264.8	295.5	339.7	358.9	366.6	370.5	387.7	433.8	451.0
77.5°	101.8	97.9	97.9	113.2	144.0	180.4	228.4	232.2	274.4	314.8	332.0
80°	34.6	38.3	51.8	71.0	96.0	128.6	155.5	159.3	193.9	220.7	226.5
82.5°	21.1	23.0	34.6	49.9	69.1	90.2	115.1	117.1	144.0	161.2	168.9
85°	9.6	11.5	19.2	30.7	44.2	59.5	61.4	61.4	59.5	61.4	57.6
87.5°	0.0	0.0	3.9	3.9	3.9	5.7	7.7	5.7	9.6	11.5	11.5
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°	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9
2.5°	5752.0	5730.9	5665.7	5608.1	5590.8	5514.1	5400.8	5414.3	5331.8	5370.1	5329.8
5°	5673.4	5602.3	5435.4	5364.4	5178.2	5093.8	5036.2	4892.3	4825.1	4811.6	4754.0
7.5°	5471.9	5427.7	5218.5	5026.6	4828.9	4660.0	4443.1	4295.3	4189.8	4161.0	4076.5
10°	5312.5	5214.7	4924.8	4633.2	4351.0	4057.3	3775.2	3554.5	3447.0	3322.3	3280.1
12.5°	5155.2	5007.4	4615.8	4241.6	3876.9	3506.5	3164.9	2896.2	2662.0	2606.3	2587.2
15°	5057.3	4800.1	4339.5	3888.4	3370.2	2886.6	2545.0	2368.4	2224.4	2164.9	2207.2
17.5°	4928.7	4629.3	4074.6	3473.9	2903.9	2458.6	2172.6	2063.2	2011.4	2017.1	1999.9
20°	4767.5	4468.1	3727.2	3097.7	2487.3	2132.3	1969.2	1928.8	1936.6	1949.9	1944.2
22.5°	4652.3	4272.3	3475.8	2713.8	2149.6	1951.9	1884.8	1855.9	1880.9	1892.4	1882.8
25°	4564.0	4105.3	3170.7	2374.1	1953.8	1850.2	1819.5	1817.6	1855.9	1871.3	1861.7
27.5°	4483.5	3949.8	2867.4	2115.0	1823.3	1771.5	1761.9	1784.9	1809.8	1825.2	1838.7
30°	4435.4	3830.8	2583.3	1898.1	1758.0	1733.1	1715.8	1736.9	1750.4	1765.8	1758.0
32.5°	4481.5	3746.4	2308.9	1775.4	1704.3	1679.4	1702.4	1689.0	1712.0	1725.4	1704.3
35°	4625.4	3671.6	2113.1	1710.1	1642.9	1652.5	1656.3	1650.5	1660.1	1648.7	1673.6
37.5°	4767.5	3644.7	1932.7	1654.4	1614.1	1614.1	1610.3	1598.7	1617.9	1614.1	1625.7
40°	4947.9	3662.0	1779.1	1595.0	1587.2	1583.4	1568.0	1566.1	1558.5	1560.4	1564.2
42.5°	5105.3	3700.3	1690.9	1556.5	1562.3	1570.0	1541.2	1518.2	1527.8	1508.6	1508.6
45°	5272.2	3734.9	1612.2	1529.7	1523.9	1522.0	1498.9	1485.5	1477.8	1479.7	1497.1
47.5°	5535.2	3784.8	1552.7	1493.2	1497.1	1468.2	1462.5	1445.2	1452.9	1464.4	1466.3
50°	5721.3	3890.4	1506.7	1451.0	1464.4	1445.2	1410.7	1403.0	1403.0	1422.2	1418.3
52.5°	5851.8	4038.1	1462.5	1404.9	1410.7	1395.3	1383.8	1366.5	1355.0	1381.8	1395.3
55°	6251.1	4283.8	1451.0	1366.5	1364.6	1349.2	1328.1	1310.9	1305.1	1308.9	1335.8
57.5°	6212.7	4207.0	1414.5	1299.3	1295.5	1274.4	1253.3	1247.5	1245.6	1249.5	1257.1
60°	5043.8	3107.3	1262.8	1222.6	1216.8	1213.0	1191.9	1168.8	1157.3	1168.8	1159.2
62.5°	3337.6	2080.5	1113.1	1130.5	1134.3	1124.7	1090.2	1067.1	1070.9	1084.4	1063.3
65°	1639.0	1222.6	1009.5	1055.6	1059.4	1032.6	999.9	973.0	959.7	971.2	961.5
67.5°	936.6	934.7	925.1	973.0	971.2	944.3	892.5	869.4	846.4	850.3	844.4
70°	794.6	810.0	829.1	857.9	856.0	825.3	763.9	746.6	714.0	710.1	700.6
72.5°	625.7	652.5	694.8	715.9	698.6	660.3	619.9	591.1	562.4	545.1	550.9
75°	464.5	502.8	525.9	539.3	512.4	491.3	458.7	424.2	389.6	374.2	368.5
77.5°	337.8	349.3	370.5	380.0	362.7	341.6	322.4	287.9	255.2	234.1	228.4
80°	236.1	243.7	259.1	259.1	259.1	249.5	224.5	190.0	168.9	149.7	145.8
82.5°	165.1	172.7	188.0	180.4	178.5	166.9	151.6	124.7	101.8	88.3	84.4
85°	57.6	63.3	76.8	92.1	97.9	96.0	86.4	69.1	53.7	44.2	40.3
87.5°	13.5	13.5	15.4	13.5	13.5	15.4	13.5	13.5	13.5	9.6	7.7
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)