

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: P647329

Luminaire Tested: **GALN-SA3D-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647329
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-SA3D-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA 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: 15297.5 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

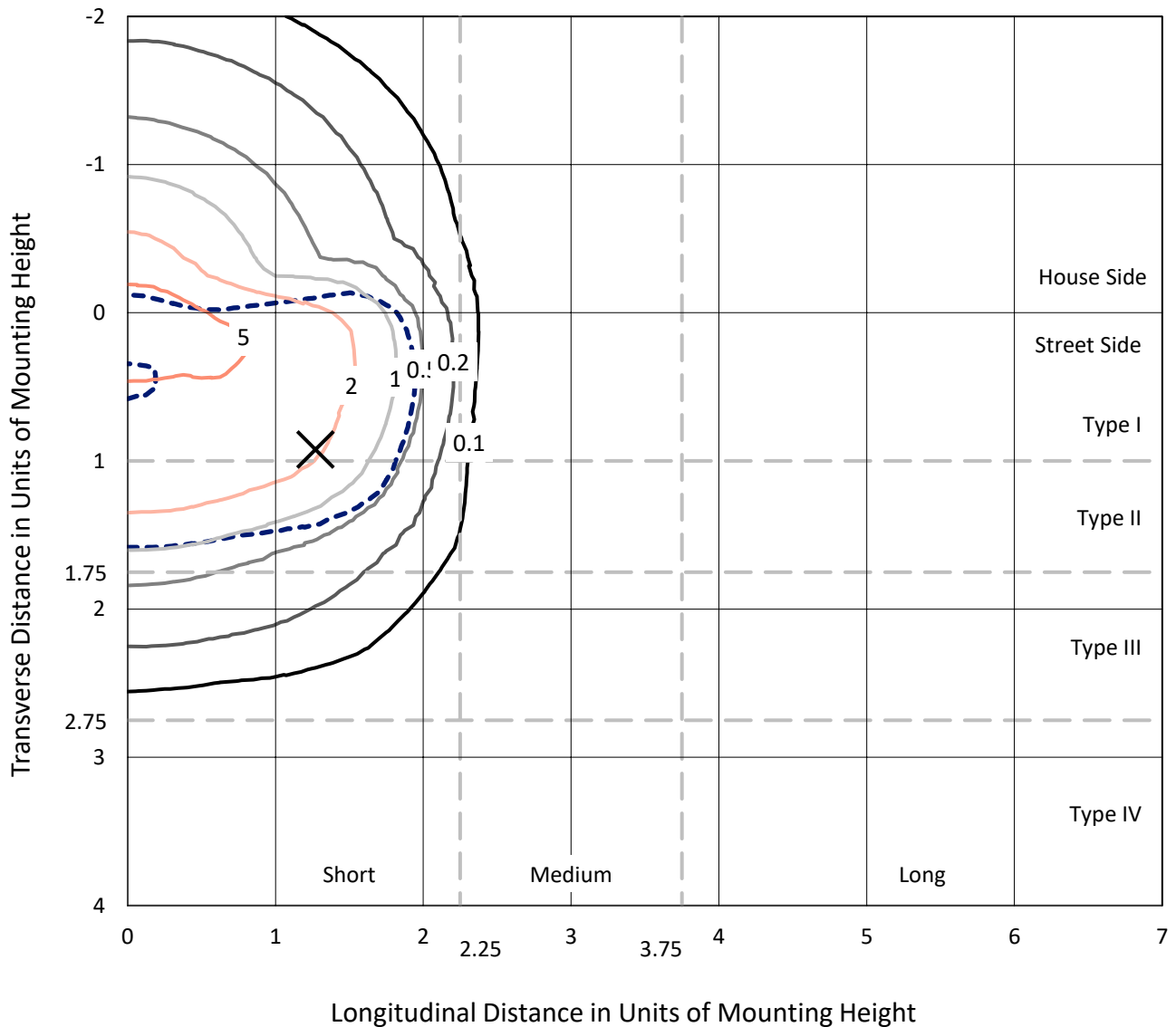
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

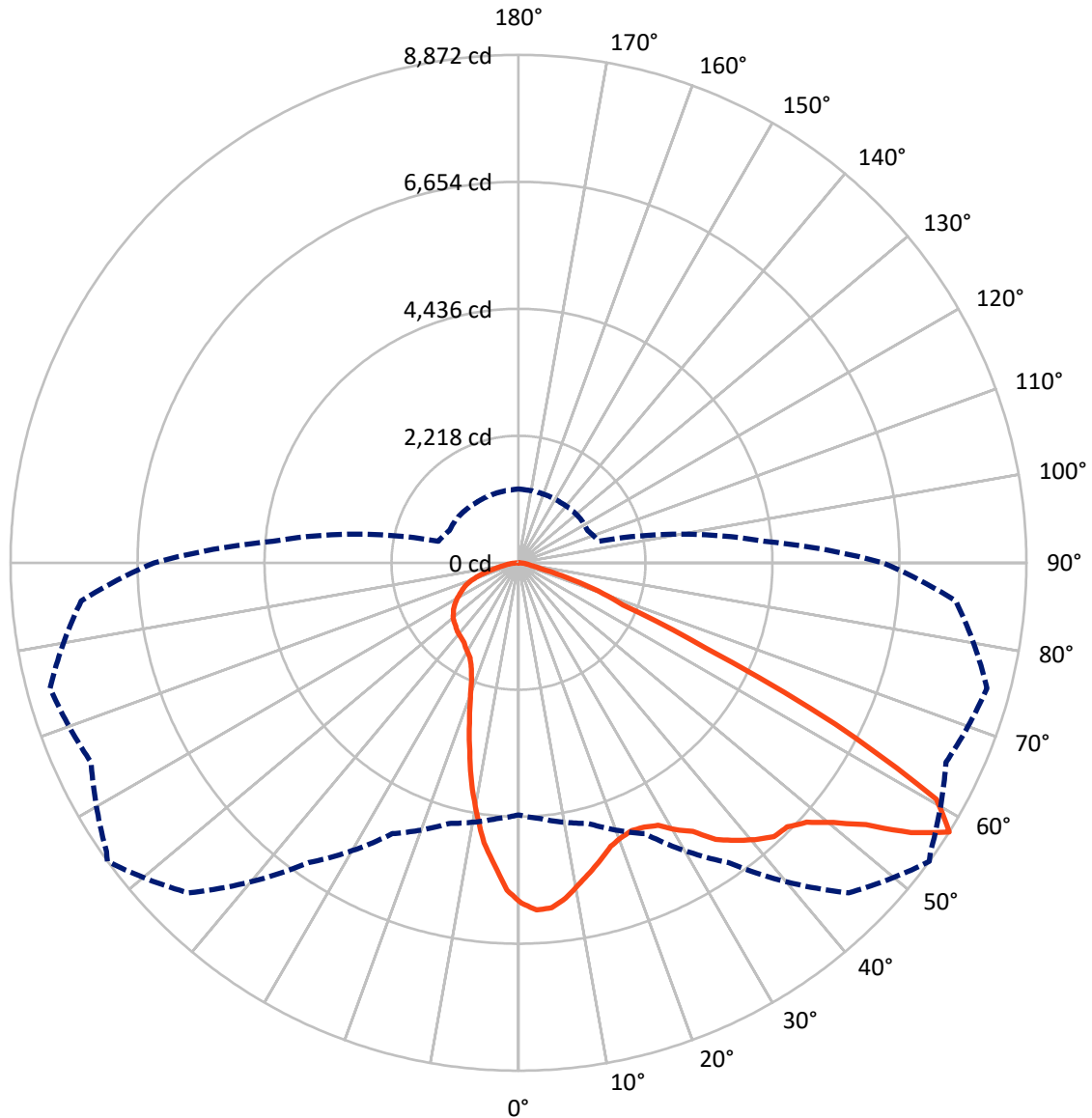
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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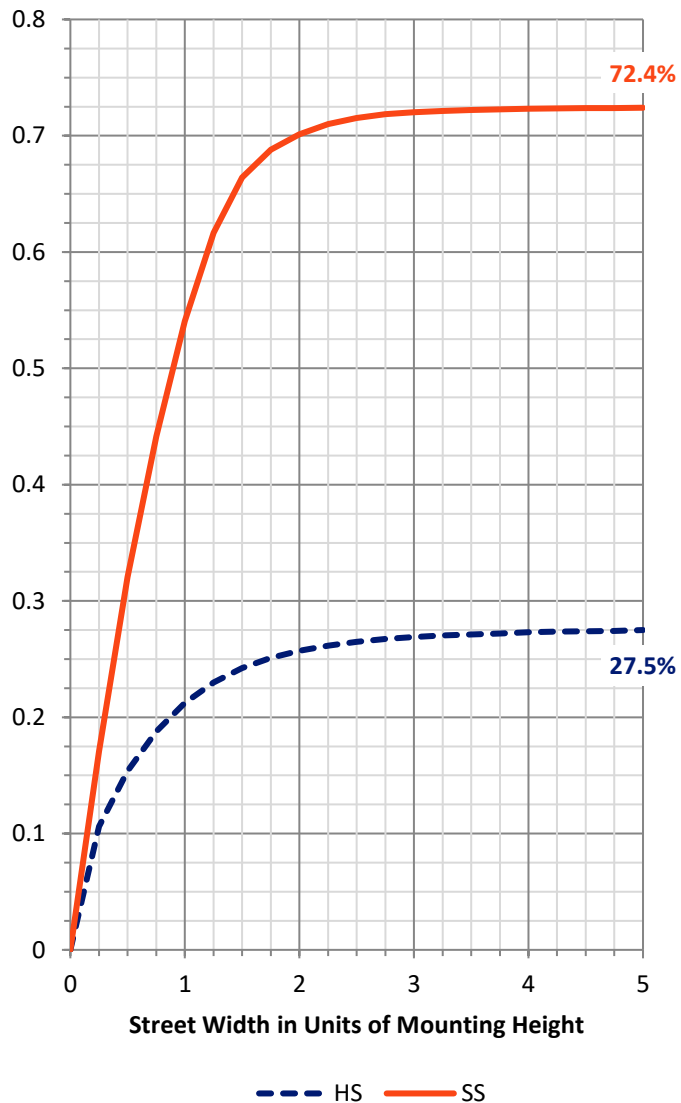
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4232.1	0.0	4232.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	11065.3	0.0	11065.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	15297.5	0.0	15297.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.8	3.4
10°-20°	1187.3	7.8
20°-30°	1668.1	10.9
30°-40°	2332.1	15.2
40°-50°	3157.2	20.6
50°-60°	3845.6	25.1
60°-70°	2002.9	13.1
70°-80°	513.2	3.4
80°-90°	78.3	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°	15297.5	100.0
0°-180°	15297.5	100.0

Coefficient of Utilization

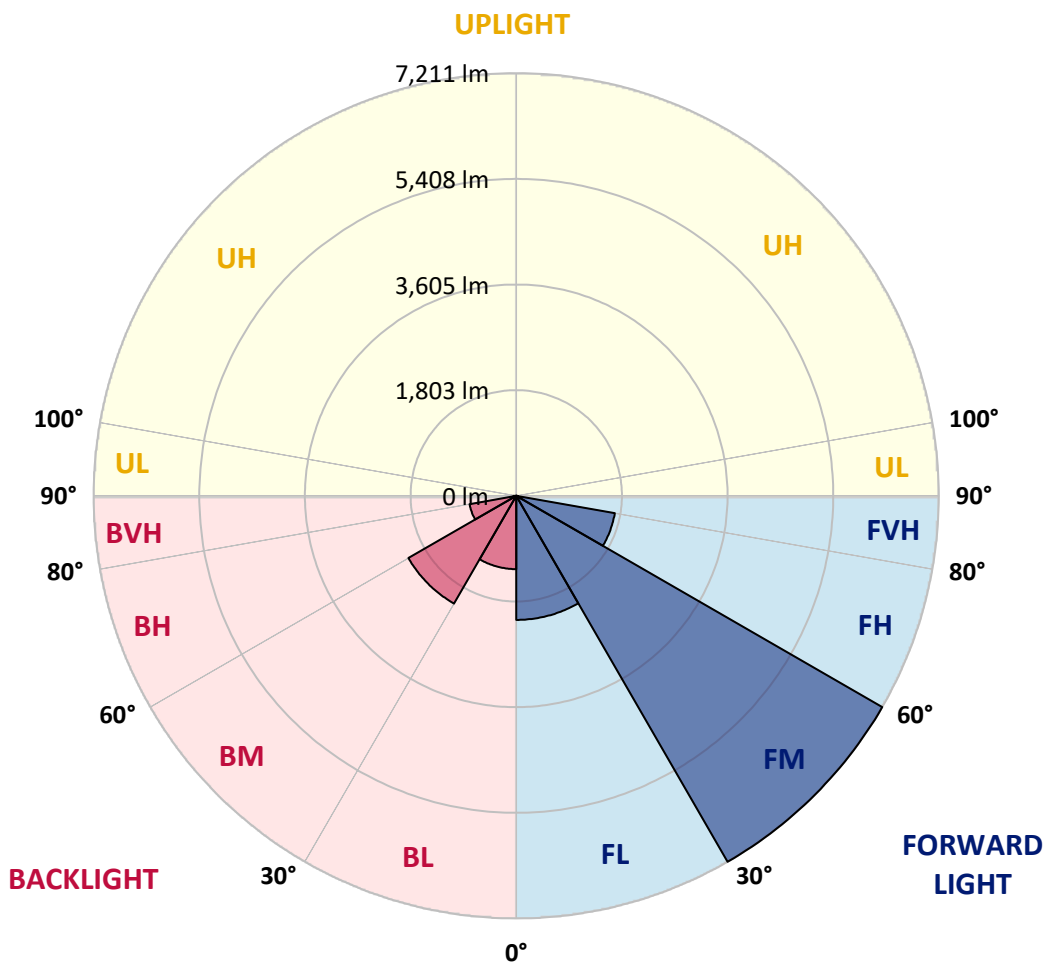


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2117.4	13.8			
FM (30°-60°)	7210.8	47.1			
FH (60°-80°)	1707.6	11.2			G1/1800
FVH (80°-90°)	29.6	0.2			G1/100
BL (0°-30°)	1250.8	8.2	B3/2500		
BM (30°-60°)	2124.1	13.9	B2/2500		
BH (60°-80°)	808.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	48.7	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°	5945.9	5945.9	5945.9	5945.9	5945.9	5945.9	5945.9	5945.9	5945.9	5945.9	5945.9
2.5°	6115.1	6091.4	6095.4	6126.8	6087.5	6071.8	6071.8	5995.1	6001.0	5947.9	5934.1
5°	5973.5	5918.5	5955.8	6002.9	6010.9	6026.6	6052.1	6032.5	5977.4	5920.4	5827.9
7.5°	5603.9	5652.9	5666.7	5700.2	5770.9	5835.9	5916.4	5861.4	5859.4	5802.4	5747.4
10°	5279.4	5249.9	5324.6	5373.8	5491.7	5599.9	5723.7	5717.9	5747.4	5682.5	5588.1
12.5°	4956.9	4933.4	4968.8	5080.8	5245.9	5403.2	5550.8	5495.6	5652.9	5641.2	5438.6
15°	4614.8	4632.5	4683.6	4787.8	5004.2	5192.9	5379.7	5381.6	5521.2	5568.5	5297.1
17.5°	4374.9	4355.3	4420.1	4575.5	4768.2	4994.3	5206.6	5249.9	5464.2	5491.7	5253.9
20°	4196.0	4223.5	4308.1	4386.7	4608.9	4882.2	5122.1	5137.8	5452.4	5527.1	5185.0
22.5°	4152.7	4137.0	4164.5	4292.3	4475.2	4772.1	5076.9	5135.9	5450.5	5515.4	5055.2
25°	4107.5	4158.6	4156.6	4284.5	4418.2	4683.6	5114.2	5179.1	5554.7	5576.3	5072.9
27.5°	4209.7	4203.8	4258.9	4268.8	4433.9	4707.2	5192.9	5242.0	5727.7	5710.0	5086.7
30°	4312.0	4282.5	4315.9	4431.9	4508.6	4842.9	5409.2	5405.2	5951.8	5940.1	5130.0
32.5°	4437.8	4424.1	4445.7	4548.0	4677.7	5023.8	5592.0	5708.1	6179.9	6254.7	5279.4
35°	4461.5	4518.5	4569.6	4707.2	4892.0	5316.7	5936.2	6032.5	6443.4	6677.4	5564.5
37.5°	4610.9	4632.5	4752.4	4996.2	5165.4	5708.1	6154.4	6215.3	6683.3	6948.7	5865.3
40°	4770.1	4795.7	4976.6	5232.2	5464.2	5963.6	6358.9	6378.6	6760.0	7157.2	6062.0
42.5°	4986.5	5010.0	5188.9	5509.4	5820.1	6181.9	6539.8	6561.4	6754.1	7397.1	6374.6
45°	5210.6	5267.6	5477.9	5841.7	6120.9	6437.5	6581.0	6669.5	6809.1	7611.4	6628.3
47.5°	5525.2	5578.2	5751.3	6107.2	6433.6	6661.7	6771.8	6858.3	6940.9	7798.1	6791.4
50°	5859.4	5869.3	6079.7	6402.1	6642.0	6915.3	7127.6	7157.2	7113.9	8014.5	7068.7
52.5°	6105.2	6136.7	6299.9	6614.5	6972.3	7308.6	7599.6	7631.0	7546.5	8095.0	7163.0
55°	5698.2	5680.5	5945.9	6364.8	7194.5	7894.5	8317.3	8340.8	7861.1	8344.7	7471.8
57.5°	4404.4	4488.9	4715.1	5220.4	6392.3	8154.1	8871.7	8787.2	8238.6	8470.7	7668.4
60°	3201.1	3181.4	3332.8	3671.0	4817.3	7027.4	8388.0	8474.6	7929.9	7635.0	6323.5
62.5°	2607.2	2579.8	2591.5	2603.3	3108.7	4663.9	6209.4	6207.5	6107.2	5487.8	4264.8
65°	2084.3	2149.1	2155.1	2243.5	2308.4	2786.1	3598.3	3791.0	3301.4	2707.5	1964.3
67.5°	1571.0	1547.4	1626.1	1940.7	2062.6	2011.4	1964.3	1985.9	1411.7	1018.5	959.6
70°	926.1	916.3	1010.6	1352.8	1698.9	1598.6	1480.6	1482.5	969.4	711.7	792.4
72.5°	507.3	505.3	525.0	686.2	965.4	1002.8	888.8	916.3	578.1	576.1	619.4
75°	283.1	277.3	271.3	302.8	348.0	367.7	375.5	379.5	397.2	444.4	462.0
77.5°	104.2	100.3	100.3	116.0	147.4	184.9	234.0	238.0	281.2	322.4	340.1
80°	35.4	39.3	53.1	72.7	98.3	131.7	159.3	163.2	198.6	226.1	232.0
82.5°	21.6	23.6	35.4	51.1	70.8	92.4	118.0	120.0	147.4	165.1	173.0
85°	9.9	11.8	19.7	31.5	45.3	60.9	63.0	63.0	60.9	63.0	59.0
87.5°	0.0	0.0	3.9	3.9	3.9	5.9	7.8	5.9	9.9	11.8	11.8
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°	5945.9	5945.9	5945.9	5945.9	5945.9	5945.9	5945.9	5945.9	5945.9	5945.9	5945.9
2.5°	5892.9	5871.2	5804.4	5745.4	5727.7	5649.0	5533.1	5546.8	5462.3	5501.6	5460.3
5°	5812.2	5739.5	5568.5	5495.6	5305.0	5218.5	5159.4	5012.0	4943.2	4929.4	4870.4
7.5°	5605.8	5560.6	5346.2	5149.6	4947.1	4774.0	4551.9	4400.5	4292.3	4262.8	4176.3
10°	5442.6	5342.3	5045.4	4746.5	4457.5	4156.6	3867.6	3641.5	3531.4	3403.6	3360.3
12.5°	5281.3	5130.0	4728.9	4345.4	3971.8	3592.3	3242.3	2967.1	2727.2	2670.2	2650.5
15°	5181.1	4917.6	4445.7	3983.7	3452.7	2957.2	2607.2	2426.4	2278.9	2217.9	2261.2
17.5°	5049.3	4742.6	4174.3	3558.9	2974.9	2518.8	2225.8	2113.7	2060.6	2066.6	2048.8
20°	4884.2	4577.4	3818.5	3173.5	2548.3	2184.5	2017.4	1976.1	1984.0	1997.7	1991.8
22.5°	4766.2	4376.9	3560.8	2780.3	2202.2	1999.7	1930.9	1901.4	1927.0	1938.7	1928.9
25°	4675.8	4205.8	3248.3	2432.2	2001.7	1895.5	1864.0	1862.1	1901.4	1917.1	1907.2
27.5°	4593.2	4046.5	2937.6	2166.8	1867.9	1814.8	1805.0	1828.6	1854.1	1869.9	1883.7
30°	4544.0	3924.6	2646.5	1944.7	1801.1	1775.5	1757.8	1779.4	1793.2	1809.0	1801.1
32.5°	4591.2	3838.1	2365.4	1818.8	1746.0	1720.5	1744.1	1730.3	1753.9	1767.7	1746.0
35°	4738.6	3761.5	2164.8	1752.0	1683.1	1692.9	1696.8	1691.0	1700.8	1689.0	1714.5
37.5°	4884.2	3733.9	1980.1	1694.9	1653.6	1653.6	1649.7	1637.9	1657.5	1653.6	1665.4
40°	5069.0	3751.6	1822.7	1634.0	1626.1	1622.1	1606.4	1604.4	1596.6	1598.6	1602.5
42.5°	5230.2	3791.0	1732.2	1594.7	1600.5	1608.4	1578.9	1555.3	1565.1	1545.5	1545.5
45°	5401.3	3826.4	1651.7	1567.1	1561.2	1559.3	1535.6	1521.9	1514.0	1516.0	1533.7
47.5°	5670.6	3877.4	1590.7	1529.7	1533.7	1504.2	1498.3	1480.6	1488.5	1500.2	1502.2
50°	5861.4	3985.6	1543.5	1486.5	1500.2	1480.6	1445.2	1437.4	1437.4	1457.0	1453.1
52.5°	5995.1	4137.0	1498.3	1439.3	1445.2	1429.4	1417.7	1400.0	1388.2	1415.7	1429.4
55°	6404.1	4388.7	1486.5	1400.0	1398.0	1382.3	1360.6	1342.9	1337.1	1341.0	1368.5
57.5°	6364.8	4310.0	1449.1	1331.2	1327.2	1305.6	1284.0	1278.1	1276.1	1280.0	1287.9
60°	5167.3	3183.4	1293.8	1252.5	1246.6	1242.7	1221.0	1197.4	1185.6	1197.4	1187.7
62.5°	3419.3	2131.4	1140.4	1158.1	1162.1	1152.3	1116.9	1093.2	1097.1	1110.9	1089.3
65°	1679.1	1252.5	1034.3	1081.4	1085.4	1057.8	1024.4	996.9	983.1	995.0	985.1
67.5°	959.6	957.5	947.7	996.9	995.0	967.4	914.3	890.7	867.1	871.1	865.1
70°	814.0	829.7	849.4	878.9	877.0	845.5	782.5	764.8	731.5	727.5	717.7
72.5°	641.0	668.5	711.7	733.4	715.7	676.4	635.1	605.6	576.1	558.4	564.3
75°	475.8	515.1	538.8	552.5	525.0	503.4	470.0	434.6	399.2	383.4	377.5
77.5°	346.1	357.8	379.5	389.3	371.6	350.0	330.3	295.0	261.5	239.9	234.0
80°	241.9	249.7	265.4	265.4	265.4	255.6	230.0	194.7	173.0	153.4	149.4
82.5°	169.1	177.0	192.7	184.9	182.8	171.1	155.3	127.8	104.2	90.4	86.5
85°	59.0	64.9	78.6	94.4	100.3	98.3	88.5	70.8	55.0	45.3	41.3
87.5°	13.8	13.8	15.7	13.8	13.8	15.7	13.8	13.8	13.8	9.9	7.8
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)