

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: P529482

Luminaire Tested: **GALN-SA4C-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529482
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-SA4C-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 17296 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

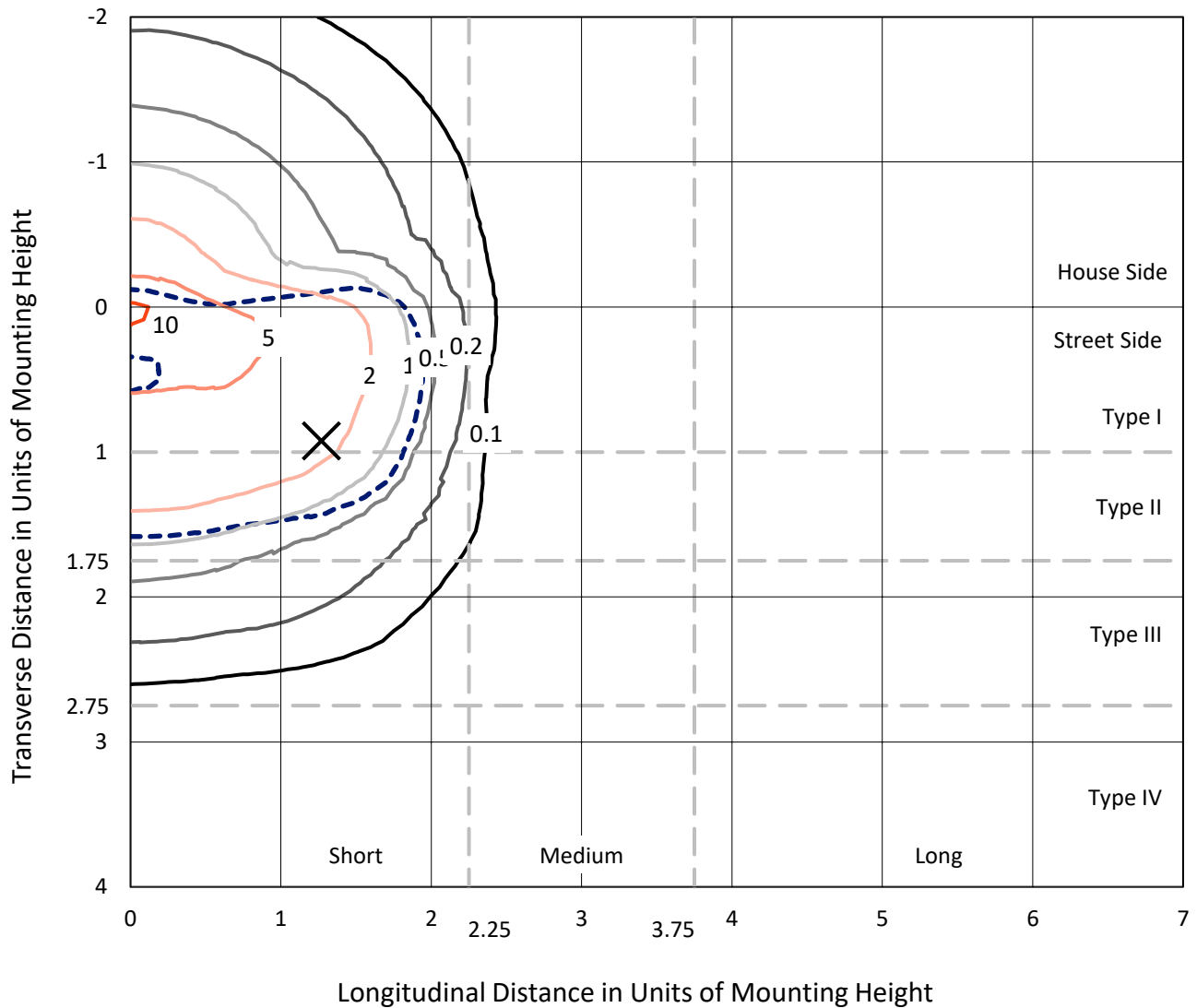
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

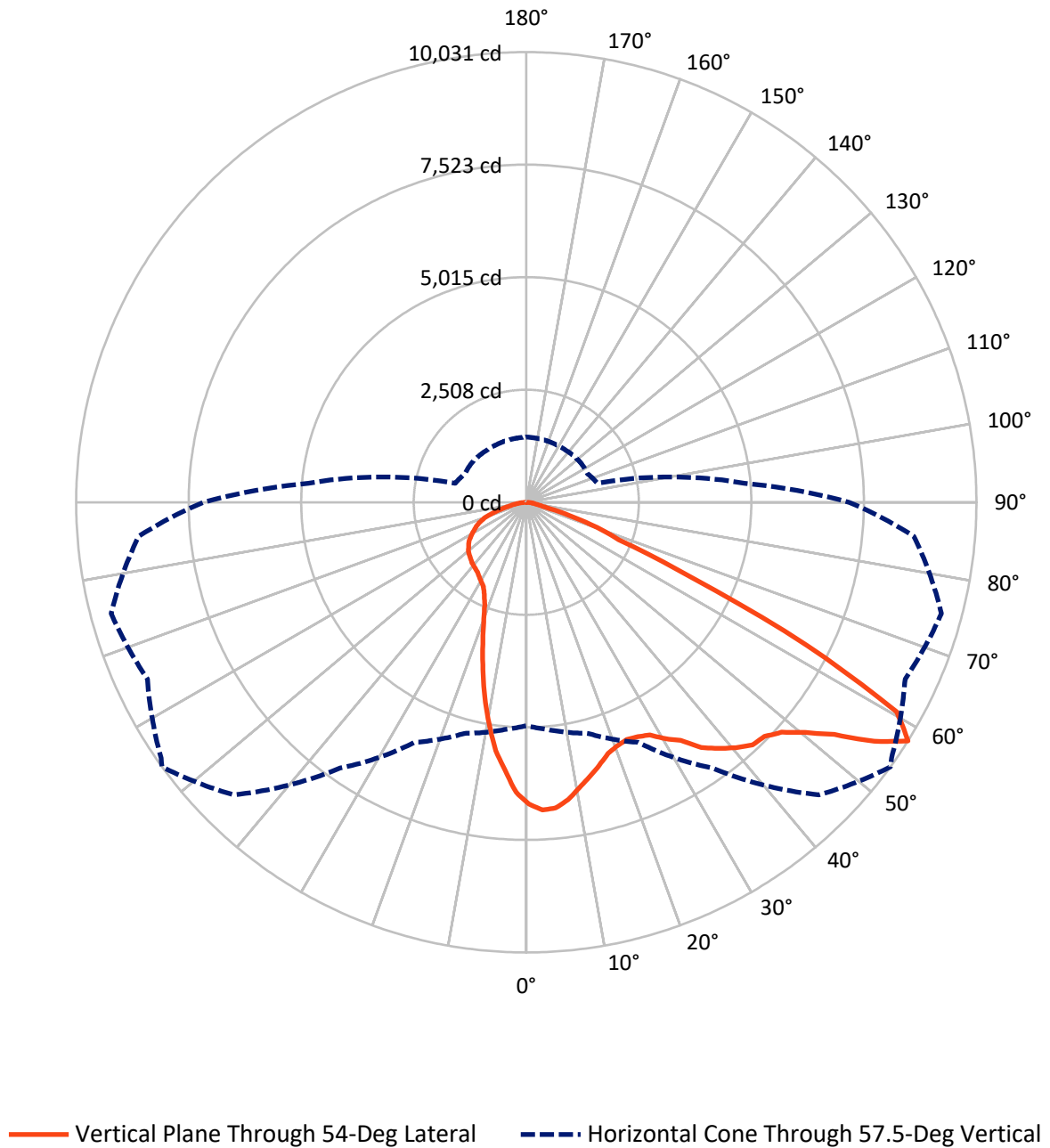
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	4785.0	0.0	4785.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	12511.0	0.0	12511.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	17296.0	0.0	17296.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.8	3.4
10°-20°	1342.4	7.8
20°-30°	1886.1	10.9
30°-40°	2636.7	15.2
40°-50°	3569.6	20.6
50°-60°	4348.0	25.1
60°-70°	2264.6	13.1
70°-80°	580.3	3.4
80°-90°	88.5	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°	17296.0	100.0
0°-180°	17296.0	100.0

Coefficient of Utilization

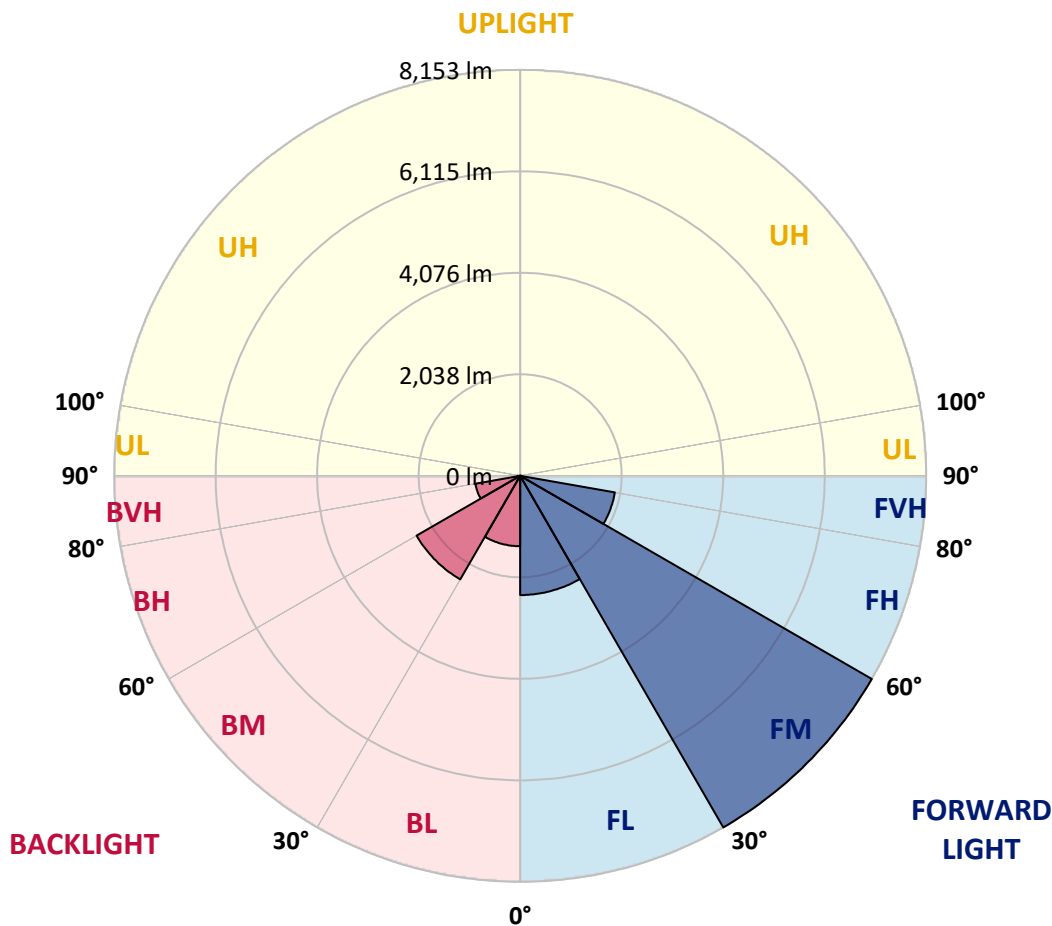


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2394.0	13.8			
FM (30°-60°)	8152.8	47.1			
FH (60°-80°)	1930.7	11.2			G2/5000
FVH (80°-90°)	33.4	0.2			G1/100
BL (0°-30°)	1414.2	8.2	B3/2500		
BM (30°-60°)	2401.6	13.9	B2/2500		
BH (60°-80°)	914.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	55.1	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°	6722.8	6722.8	6722.8	6722.8	6722.8	6722.8	6722.8	6722.8	6722.8	6722.8	6722.8
2.5°	6913.9	6887.3	6891.7	6927.3	6882.8	6865.0	6865.0	6778.3	6785.0	6725.0	6709.4
5°	6753.9	6691.6	6733.9	6787.2	6796.1	6813.9	6842.8	6820.6	6758.3	6693.9	6589.4
7.5°	6335.9	6391.5	6407.1	6444.9	6524.9	6598.3	6689.4	6627.2	6624.9	6560.5	6498.2
10°	5969.1	5935.8	6020.2	6075.8	6209.2	6331.5	6471.5	6464.9	6498.2	6424.9	6318.1
12.5°	5604.5	5577.8	5617.9	5744.6	5931.3	6109.2	6275.9	6213.7	6391.5	6378.2	6149.2
15°	5217.7	5237.7	5295.5	5413.3	5657.9	5871.3	6082.5	6084.7	6242.6	6295.9	5989.1
17.5°	4946.5	4924.2	4997.6	5173.2	5391.1	5646.8	5886.9	5935.8	6178.1	6209.2	5940.2
20°	4744.2	4775.3	4870.9	4959.8	5211.0	5520.0	5791.3	5809.0	6164.8	6249.2	5862.4
22.5°	4695.3	4677.5	4708.6	4853.1	5059.9	5395.5	5740.1	5806.8	6162.5	6235.9	5715.7
25°	4644.1	4701.9	4699.7	4844.2	4995.4	5295.5	5782.4	5855.7	6280.4	6304.8	5735.7
27.5°	4759.7	4753.1	4815.3	4826.4	5013.2	5322.2	5871.3	5926.9	6476.0	6456.0	5751.2
30°	4875.3	4842.0	4879.8	5010.9	5097.6	5475.6	6115.8	6111.4	6729.4	6716.1	5800.2
32.5°	5017.6	5002.1	5026.5	5142.1	5288.8	5680.1	6322.6	6453.8	6987.3	7071.8	5969.1
35°	5044.3	5108.8	5166.6	5322.2	5531.2	6011.4	6711.6	6820.6	7285.2	7549.8	6291.5
37.5°	5213.2	5237.7	5373.3	5649.0	5840.2	6453.8	6958.4	7027.3	7556.4	7856.6	6631.6
40°	5393.3	5422.2	5626.8	5915.8	6178.1	6742.8	7189.6	7211.8	7643.1	8092.2	6853.9
42.5°	5637.9	5664.5	5866.9	6229.2	6580.5	6989.5	7394.1	7418.6	7636.5	8363.4	7207.4
45°	5891.3	5955.8	6193.7	6604.9	6920.6	7278.5	7440.8	7540.9	7698.7	8605.8	7494.2
47.5°	6247.0	6307.0	6502.7	6905.1	7274.1	7532.0	7656.5	7754.3	7847.7	8816.9	7678.7
50°	6624.9	6636.1	6873.9	7238.5	7509.7	7818.8	8058.9	8092.2	8043.3	9061.5	7992.2
52.5°	6902.8	6938.4	7122.9	7478.6	7883.2	8263.4	8592.4	8628.0	8532.4	9152.6	8098.9
55°	6442.6	6422.6	6722.8	7196.3	8134.4	8925.9	9403.9	9430.5	8888.1	9435.0	8447.9
57.5°	4979.8	5075.4	5331.1	5902.4	7227.4	9219.3	10030.8	9935.2	9314.9	9577.3	8670.2
60°	3619.3	3597.0	3768.2	4150.6	5446.7	7945.5	9483.9	9581.7	8965.9	8632.4	7149.6
62.5°	2947.9	2916.8	2930.1	2943.4	3514.8	5273.3	7020.7	7018.4	6905.1	6204.8	4822.0
65°	2356.5	2429.9	2436.6	2536.6	2610.0	3150.2	4068.3	4286.2	3732.6	3061.3	2220.9
67.5°	1776.3	1749.6	1838.5	2194.2	2332.1	2274.3	2220.9	2245.4	1596.2	1151.6	1084.9
70°	1047.1	1036.0	1142.7	1529.5	1920.8	1807.4	1674.0	1676.2	1096.0	804.8	895.9
72.5°	573.6	571.3	593.6	775.9	1091.6	1133.8	1004.9	1036.0	653.6	651.4	700.3
75°	320.1	313.5	306.8	342.4	393.5	415.7	424.6	429.1	449.1	502.4	522.4
77.5°	117.8	113.4	113.4	131.2	166.7	209.0	264.6	269.0	317.9	364.6	384.6
80°	40.0	44.5	60.0	82.3	111.2	148.9	180.1	184.5	224.5	255.7	262.3
82.5°	24.5	26.7	40.0	57.8	80.0	104.5	133.4	135.6	166.7	186.7	195.6
85°	11.1	13.3	22.2	35.6	51.1	68.9	71.1	71.1	68.9	71.1	66.7
87.5°	0.0	0.0	4.4	4.4	4.4	6.7	8.9	6.7	11.1	13.3	13.3
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°	6722.8	6722.8	6722.8	6722.8	6722.8	6722.8	6722.8	6722.8	6722.8	6722.8	6722.8
2.5°	6662.7	6638.3	6562.7	6496.0	6476.0	6387.1	6255.9	6271.5	6175.9	6220.3	6173.6
5°	6571.6	6489.3	6295.9	6213.7	5998.0	5900.2	5833.5	5666.8	5589.0	5573.4	5506.7
7.5°	6338.2	6287.0	6044.7	5822.4	5593.4	5397.8	5146.6	4975.4	4853.1	4819.8	4721.9
10°	6153.6	6040.3	5704.6	5366.6	5039.8	4699.7	4372.9	4117.2	3992.7	3848.2	3799.3
12.5°	5971.3	5800.2	5346.6	4913.1	4490.7	4061.7	3665.9	3354.7	3083.5	3019.0	2996.8
15°	5858.0	5560.1	5026.5	4504.1	3903.8	3343.6	2947.9	2743.3	2576.6	2507.7	2556.6
17.5°	5709.0	5362.2	4719.7	4023.9	3363.6	2847.8	2516.6	2389.9	2329.8	2336.5	2316.5
20°	5522.3	5175.5	4317.3	3588.1	2881.2	2469.9	2280.9	2234.2	2243.1	2258.7	2252.0
22.5°	5388.9	4948.7	4026.1	3143.5	2489.9	2260.9	2183.1	2149.8	2178.7	2192.0	2180.9
25°	5286.6	4755.3	3672.6	2750.0	2263.2	2143.1	2107.5	2105.3	2149.8	2167.6	2156.4
27.5°	5193.2	4575.2	3321.4	2449.9	2112.0	2052.0	2040.8	2067.5	2096.4	2114.2	2129.8
30°	5137.7	4437.4	2992.3	2198.7	2036.4	2007.5	1987.5	2011.9	2027.5	2045.3	2036.4
32.5°	5191.0	4339.6	2674.4	2056.4	1974.1	1945.2	1971.9	1956.4	1983.0	1998.6	1974.1
35°	5357.8	4252.9	2447.7	1980.8	1903.0	1914.1	1918.6	1911.9	1923.0	1909.7	1938.6
37.5°	5522.3	4221.7	2238.7	1916.3	1869.7	1869.7	1865.2	1851.9	1874.1	1869.7	1883.0
40°	5731.2	4241.7	2060.8	1847.4	1838.5	1834.1	1816.3	1814.1	1805.2	1807.4	1811.9
42.5°	5913.5	4286.2	1958.6	1803.0	1809.6	1818.5	1785.2	1758.5	1769.6	1747.4	1747.4
45°	6106.9	4326.2	1867.4	1771.8	1765.2	1762.9	1736.3	1720.7	1711.8	1714.0	1734.0
47.5°	6411.5	4384.0	1798.5	1729.6	1734.0	1700.7	1694.0	1674.0	1682.9	1696.3	1698.5
50°	6627.2	4506.3	1745.2	1680.7	1696.3	1674.0	1634.0	1625.1	1625.1	1647.3	1642.9
52.5°	6778.3	4677.5	1694.0	1627.3	1634.0	1616.2	1602.9	1582.9	1569.5	1600.7	1616.2
55°	7240.7	4962.0	1680.7	1582.9	1580.6	1562.9	1538.4	1518.4	1511.7	1516.2	1547.3
57.5°	7196.3	4873.1	1638.4	1505.1	1500.6	1476.2	1451.7	1445.0	1442.8	1447.3	1456.2
60°	5842.4	3599.3	1462.8	1416.1	1409.5	1405.0	1380.6	1353.9	1340.5	1353.9	1342.8
62.5°	3866.0	2409.9	1289.4	1309.4	1313.9	1302.8	1262.7	1236.1	1240.5	1256.1	1231.6
65°	1898.6	1416.1	1169.4	1222.7	1227.2	1196.0	1158.3	1127.1	1111.6	1124.9	1113.8
67.5°	1084.9	1082.7	1071.6	1127.1	1124.9	1093.8	1033.8	1007.1	980.4	984.8	978.2
70°	920.4	938.2	960.4	993.7	991.5	955.9	884.8	864.8	827.0	822.6	811.4
72.5°	724.7	755.9	804.8	829.2	809.2	764.8	718.1	684.7	651.4	631.4	638.0
75°	538.0	582.5	609.1	624.7	593.6	569.1	531.3	491.3	451.3	433.5	426.8
77.5°	391.3	404.6	429.1	440.2	420.2	395.7	373.5	333.5	295.7	271.2	264.6
80°	273.4	282.3	300.1	300.1	300.1	289.0	260.1	220.1	195.6	173.4	169.0
82.5°	191.2	200.1	217.9	209.0	206.8	193.4	175.6	144.5	117.8	102.3	97.8
85°	66.7	73.4	88.9	106.7	113.4	111.2	100.0	80.0	62.2	51.1	46.7
87.5°	15.6	15.6	17.8	15.6	15.6	17.8	15.6	15.6	15.6	11.1	8.9
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)