

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: P528442

Luminaire Tested: **GALN-SA3C-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528442  
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-735-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 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: 16540 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

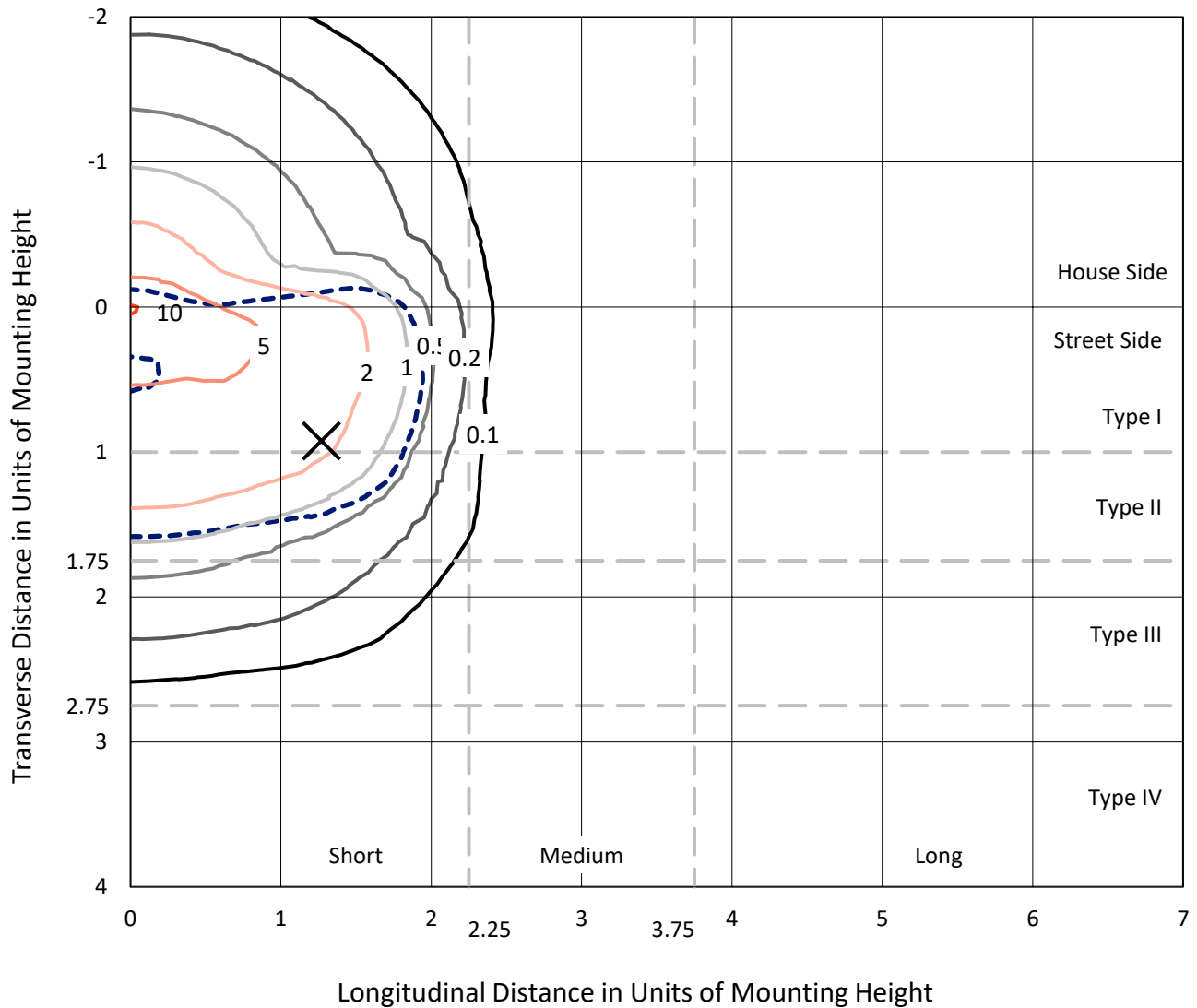
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P528442  
 CATALOG NUMBER: GALN-SA3C-735-U-SL3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

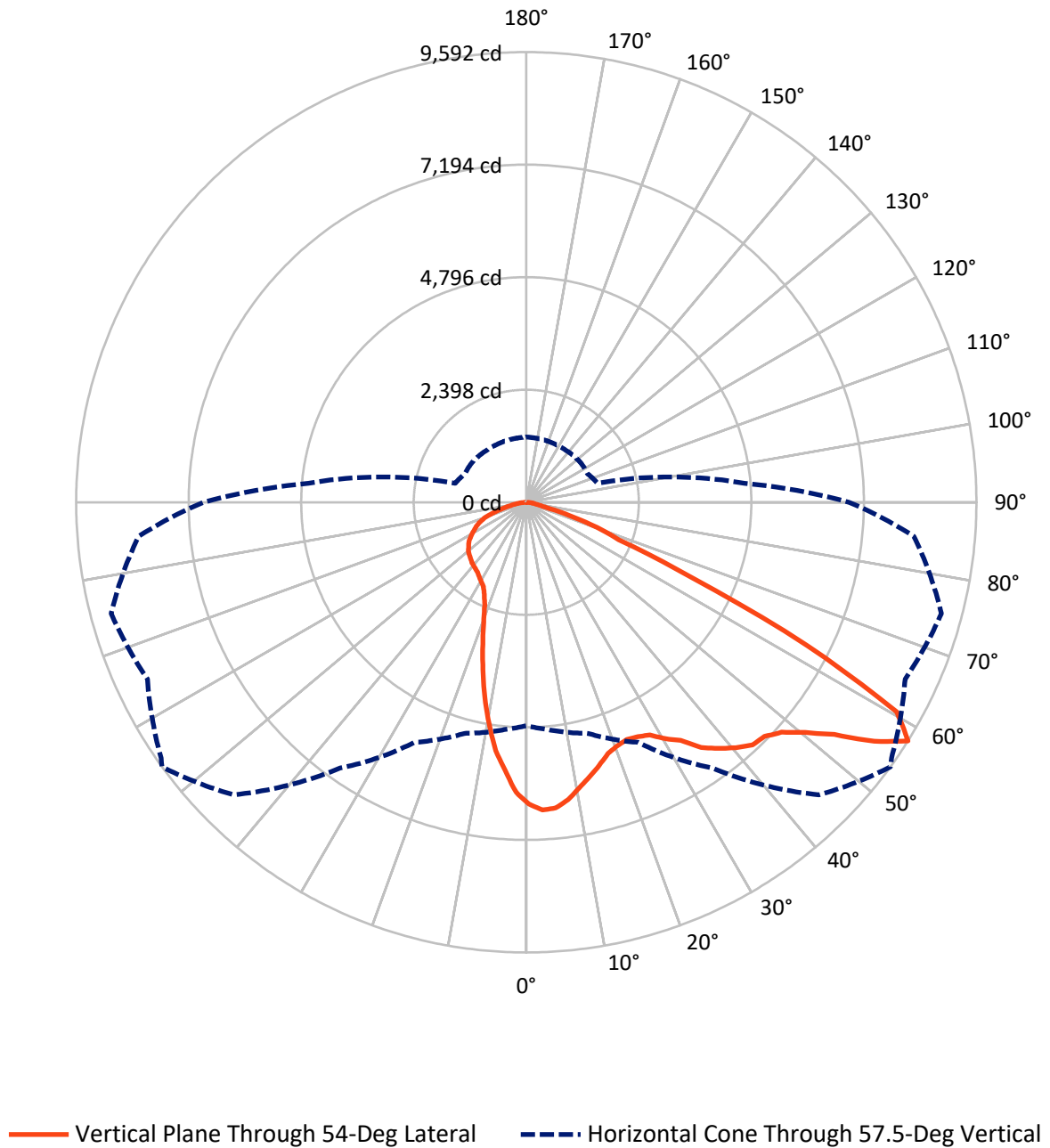
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P528442  
CATALOG NUMBER: GALN-SA3C-735-U-SL3-GRSWH

### Luminous Intensity Polar Plot



REPORT NUMBER: P528442  
 CATALOG NUMBER: GALN-SA3C-735-U-SL3-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4575.9	0.0	4575.9
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	11964.1	0.0	11964.1
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	16540.0	0.0	16540.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	554.4	3.4
10°-20°	1283.7	7.8
20°-30°	1803.6	10.9
30°-40°	2521.5	15.2
40°-50°	3413.6	20.6
50°-60°	4157.9	25.1
60°-70°	2165.6	13.1
70°-80°	554.9	3.4
80°-90°	84.7	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°	16540.0	100.0
0°-180°	16540.0	100.0

**Coefficient of Utilization**

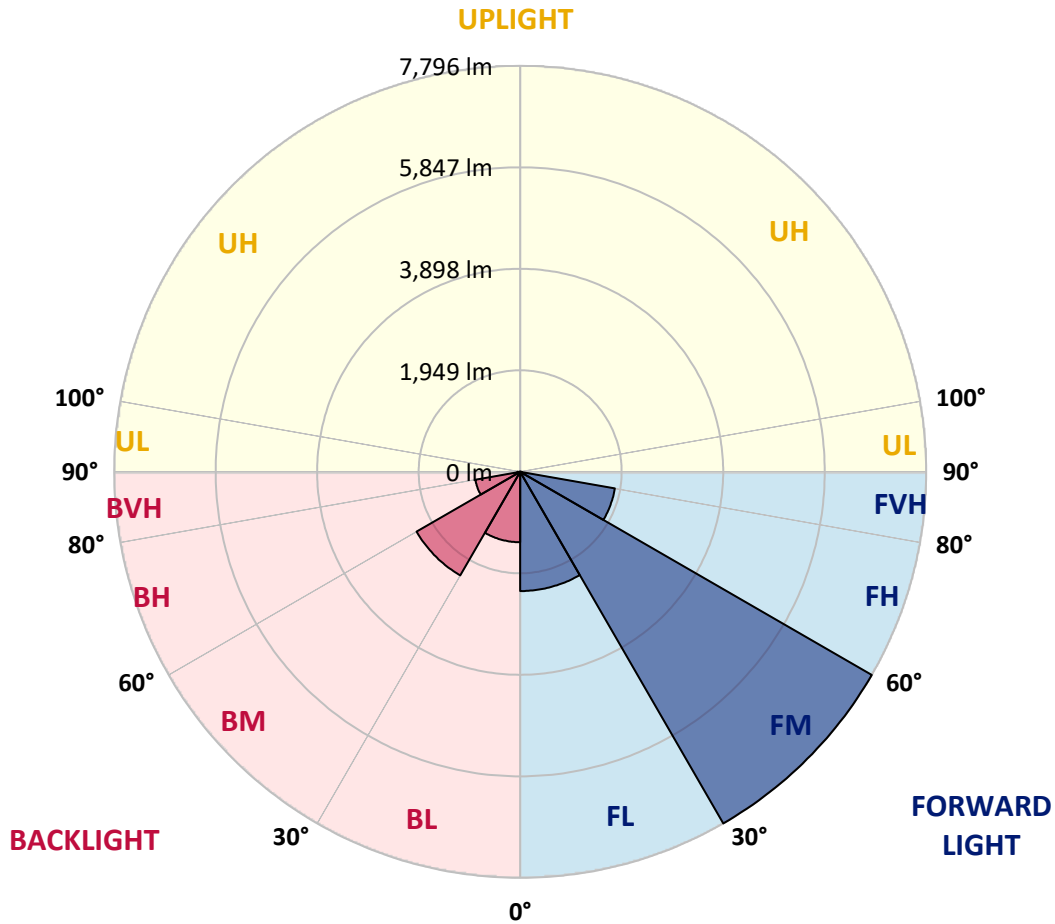


REPORT NUMBER: P528442  
 CATALOG NUMBER: GALN-SA3C-735-U-SL3-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2289.4	13.8			
FM (30°-60°)	7796.4	47.1			
FH (60°-80°)	1846.3	11.2			G2/5000
FVH (80°-90°)	32.0	0.2			G1/100
BL (0°-30°)	1352.4	8.2	B3/2500		
BM (30°-60°)	2296.6	13.9	B2/2500		
BH (60°-80°)	874.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	52.7	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





REPORT NUMBER: P528442

CATALOG NUMBER: GALN-SA3C-735-U-SL3-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6428.9	6428.9	6428.9	6428.9	6428.9	6428.9	6428.9	6428.9	6428.9	6428.9	6428.9
2.5°	6611.7	6586.2	6590.5	6624.5	6582.0	6565.0	6565.0	6482.1	6488.4	6431.0	6416.2
5°	6458.7	6399.1	6439.5	6490.6	6499.1	6516.1	6543.7	6522.5	6462.9	6401.3	6301.4
7.5°	6059.0	6112.1	6127.0	6163.2	6239.7	6309.9	6397.0	6337.5	6335.4	6273.7	6214.2
10°	5708.2	5676.3	5757.1	5810.3	5937.8	6054.7	6188.7	6182.3	6214.2	6144.0	6042.0
12.5°	5359.5	5334.0	5372.3	5493.5	5672.1	5842.1	6001.6	5942.1	6112.1	6099.4	5880.4
15°	4989.6	5008.8	5064.0	5176.7	5410.6	5614.7	5816.6	5818.8	5969.7	6020.7	5727.3
17.5°	4730.3	4709.0	4779.2	4947.1	5155.5	5399.9	5629.5	5676.3	5908.0	5937.8	5680.6
20°	4536.8	4566.6	4658.0	4743.0	4983.3	5278.8	5538.1	5555.1	5895.3	5976.1	5606.2
22.5°	4490.0	4473.0	4502.8	4641.0	4838.7	5159.7	5489.2	5553.0	5893.2	5963.3	5465.8
25°	4441.1	4496.4	4494.3	4632.5	4777.0	5064.0	5529.6	5599.8	6005.8	6029.2	5485.0
27.5°	4551.7	4545.3	4604.8	4615.5	4794.0	5089.6	5614.7	5667.8	6192.9	6173.8	5499.9
30°	4662.2	4630.3	4666.5	4791.9	4874.8	5236.2	5848.5	5844.3	6435.3	6422.5	5546.6
32.5°	4798.3	4783.4	4806.8	4917.3	5057.7	5431.8	6046.2	6171.7	6681.9	6762.7	5708.2
35°	4823.8	4885.5	4940.7	5089.6	5289.4	5748.6	6418.3	6522.5	6966.8	7219.8	6016.5
37.5°	4985.4	5008.8	5138.4	5402.1	5584.9	6171.7	6654.3	6720.2	7226.1	7513.1	6341.7
40°	5157.6	5185.2	5380.8	5657.2	5908.0	6448.0	6875.4	6896.6	7309.1	7738.5	6554.3
42.5°	5391.4	5417.0	5610.4	5956.9	6292.8	6684.0	7070.9	7094.3	7302.7	7997.9	6892.4
45°	5633.8	5695.5	5922.9	6316.2	6618.1	6960.4	7115.6	7211.3	7362.2	8229.6	7166.6
47.5°	5974.0	6031.4	6218.4	6603.2	6956.1	7202.8	7321.8	7415.4	7504.6	8431.6	7343.1
50°	6335.4	6346.0	6573.5	6922.1	7181.5	7477.0	7706.6	7738.5	7691.7	8665.4	7642.8
52.5°	6601.1	6635.1	6811.6	7151.7	7538.7	7902.2	8216.8	8250.9	8159.4	8752.6	7744.9
55°	6161.0	6141.9	6428.9	6881.7	7778.9	8535.7	8992.8	9018.3	8499.6	9022.6	8078.7
57.5°	4762.2	4853.6	5098.1	5644.4	6911.5	8816.4	9592.3	9500.9	8907.8	9158.6	8291.3
60°	3461.1	3439.8	3603.5	3969.2	5208.6	7598.2	9069.4	9162.9	8574.0	8255.1	6837.1
62.5°	2819.0	2789.3	2802.0	2814.8	3361.1	5042.8	6713.8	6711.7	6603.2	5933.6	4611.2
65°	2253.5	2323.7	2330.1	2425.7	2495.9	3012.5	3890.5	4098.9	3569.5	2927.4	2123.8
67.5°	1698.6	1673.1	1758.2	2098.3	2230.1	2174.9	2123.8	2147.2	1526.4	1101.2	1037.5
70°	1001.3	990.7	1092.7	1462.7	1836.8	1728.4	1600.8	1603.0	1048.1	769.6	856.8
72.5°	548.5	546.4	567.6	742.0	1043.8	1084.2	960.9	990.7	625.0	622.9	669.7
75°	306.1	299.8	293.4	327.4	376.3	397.6	406.1	410.3	429.4	480.5	499.6
77.5°	112.7	108.4	108.4	125.4	159.4	199.8	253.0	257.2	304.0	348.7	367.8
80°	38.3	42.5	57.4	78.7	106.3	142.4	172.2	176.5	214.7	244.5	250.9
82.5°	23.4	25.5	38.3	55.3	76.5	99.9	127.6	129.7	159.4	178.6	187.1
85°	10.6	12.8	21.3	34.0	48.9	65.9	68.0	68.0	65.9	68.0	63.8
87.5°	0.0	0.0	4.3	4.3	4.3	6.4	8.5	6.4	10.6	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P528442

CATALOG NUMBER: GALN-SA3C-735-U-SL3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6428.9	6428.9	6428.9	6428.9	6428.9	6428.9	6428.9	6428.9	6428.9	6428.9	6428.9
2.5°	6371.5	6348.1	6275.8	6212.1	6192.9	6107.9	5982.5	5997.3	5905.9	5948.4	5903.8
5°	6284.3	6205.7	6020.7	5942.1	5735.8	5642.3	5578.5	5419.1	5344.7	5329.8	5266.0
7.5°	6061.1	6012.2	5780.5	5567.9	5348.9	5161.8	4921.6	4757.9	4641.0	4609.1	4515.5
10°	5884.7	5776.2	5455.2	5132.1	4819.6	4494.3	4181.8	3937.3	3818.2	3680.0	3633.3
12.5°	5710.3	5546.6	5112.9	4698.4	4294.4	3884.1	3505.7	3208.1	2948.7	2887.1	2865.8
15°	5601.9	5317.0	4806.8	4307.2	3733.2	3197.4	2819.0	2623.4	2464.0	2398.1	2444.9
17.5°	5459.5	5127.8	4513.4	3848.0	3216.6	2723.4	2406.6	2285.4	2228.0	2234.4	2215.3
20°	5280.9	4949.2	4128.6	3431.3	2755.2	2361.9	2181.2	2136.6	2145.1	2160.0	2153.6
22.5°	5153.3	4732.4	3850.1	3006.1	2381.1	2162.1	2087.7	2055.8	2083.4	2096.2	2085.6
25°	5055.5	4547.4	3512.1	2629.8	2164.2	2049.4	2015.4	2013.3	2055.8	2072.8	2062.2
27.5°	4966.2	4375.2	3176.2	2342.8	2019.7	1962.3	1951.6	1977.1	2004.8	2021.8	2036.7
30°	4913.1	4243.4	2861.5	2102.6	1947.4	1919.7	1900.6	1924.0	1938.9	1955.9	1947.4
32.5°	4964.1	4149.9	2557.5	1966.5	1887.9	1860.2	1885.7	1870.8	1896.4	1911.2	1887.9
35°	5123.6	4067.0	2340.7	1894.2	1819.8	1830.5	1834.7	1828.3	1839.0	1826.2	1853.8
37.5°	5280.9	4037.2	2140.8	1832.6	1787.9	1787.9	1783.7	1770.9	1792.2	1787.9	1800.7
40°	5480.7	4056.3	1970.8	1766.7	1758.2	1753.9	1736.9	1734.8	1726.3	1728.4	1732.7
42.5°	5655.1	4098.9	1873.0	1724.2	1730.5	1739.0	1707.1	1681.6	1692.3	1671.0	1671.0
45°	5840.0	4137.1	1785.8	1694.4	1688.0	1685.9	1660.4	1645.5	1637.0	1639.1	1658.3
47.5°	6131.3	4192.4	1719.9	1654.0	1658.3	1626.4	1620.0	1600.8	1609.4	1622.1	1624.2
50°	6337.5	4309.3	1668.9	1607.2	1622.1	1600.8	1562.6	1554.1	1554.1	1575.3	1571.1
52.5°	6482.1	4473.0	1620.0	1556.2	1562.6	1545.6	1532.8	1513.7	1500.9	1530.7	1545.6
55°	6924.3	4745.1	1607.2	1513.7	1511.6	1494.6	1471.2	1452.0	1445.7	1449.9	1479.7
57.5°	6881.7	4660.1	1566.8	1439.3	1435.0	1411.6	1388.3	1381.9	1379.7	1384.0	1392.5
60°	5587.0	3441.9	1398.9	1354.2	1347.9	1343.6	1320.2	1294.7	1282.0	1294.7	1284.1
62.5°	3697.0	2304.5	1233.1	1252.2	1256.4	1245.8	1207.5	1182.0	1186.3	1201.2	1177.8
65°	1815.6	1354.2	1118.3	1169.3	1173.5	1143.8	1107.6	1077.9	1063.0	1075.7	1065.1
67.5°	1037.5	1035.3	1024.7	1077.9	1075.7	1046.0	988.6	963.1	937.5	941.8	935.4
70°	880.1	897.2	918.4	950.3	948.2	914.2	846.1	827.0	790.9	786.6	776.0
72.5°	693.1	722.8	769.6	793.0	773.9	731.3	686.7	654.8	622.9	603.8	610.2
75°	514.5	557.0	582.5	597.4	567.6	544.2	508.1	469.8	431.6	414.6	408.2
77.5°	374.2	386.9	410.3	420.9	401.8	378.4	357.2	318.9	282.8	259.4	253.0
80°	261.5	270.0	287.0	287.0	287.0	276.4	248.7	210.5	187.1	165.8	161.6
82.5°	182.8	191.3	208.3	199.8	197.7	185.0	168.0	138.2	112.7	97.8	93.5
85°	63.8	70.2	85.0	102.0	108.4	106.3	95.7	76.5	59.5	48.9	44.6
87.5°	14.9	14.9	17.0	14.9	14.9	17.0	14.9	14.9	14.9	10.6	8.5
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)