

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: P455448

Luminaire Tested: **GALN-SA6C-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30376 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

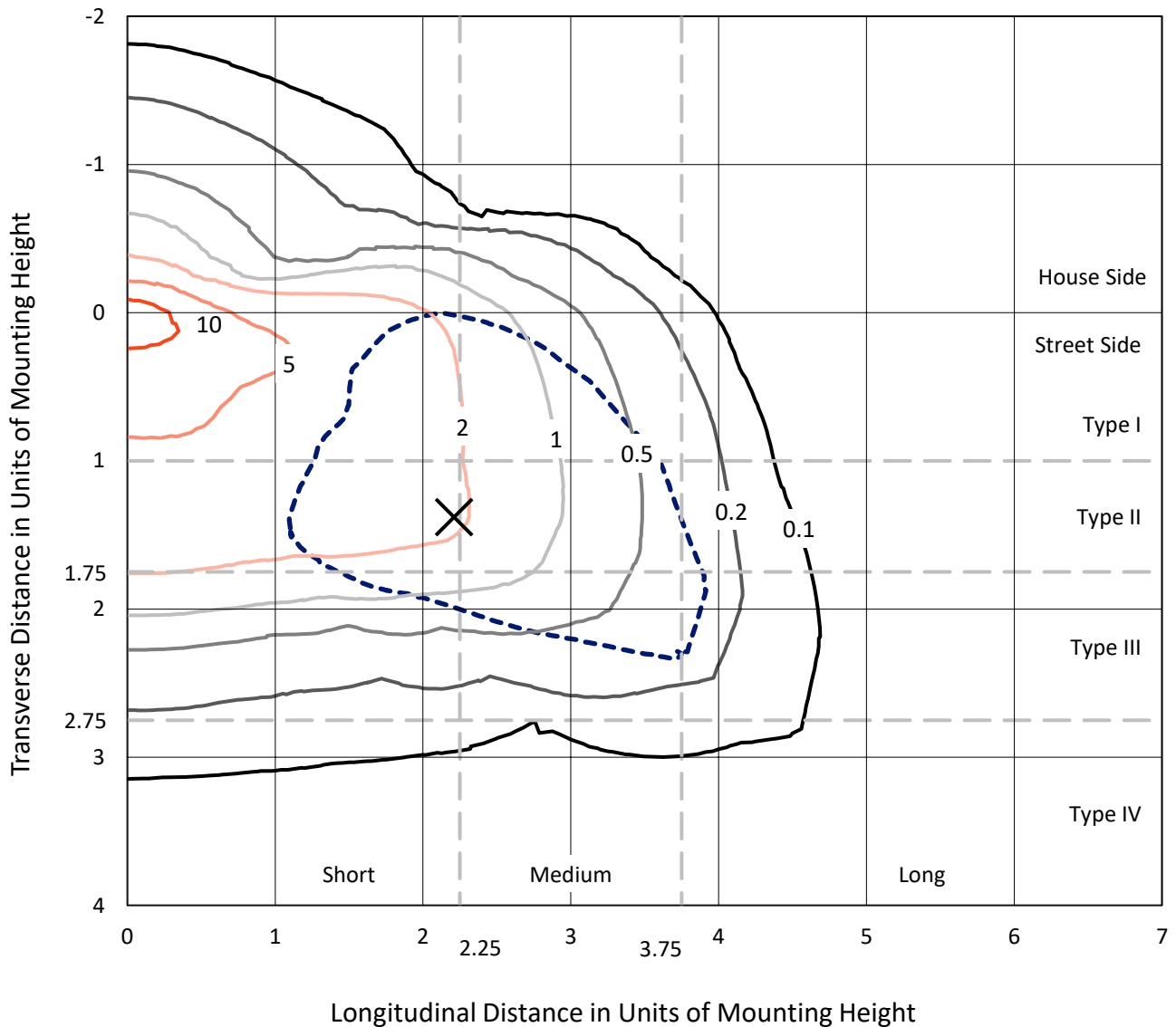
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

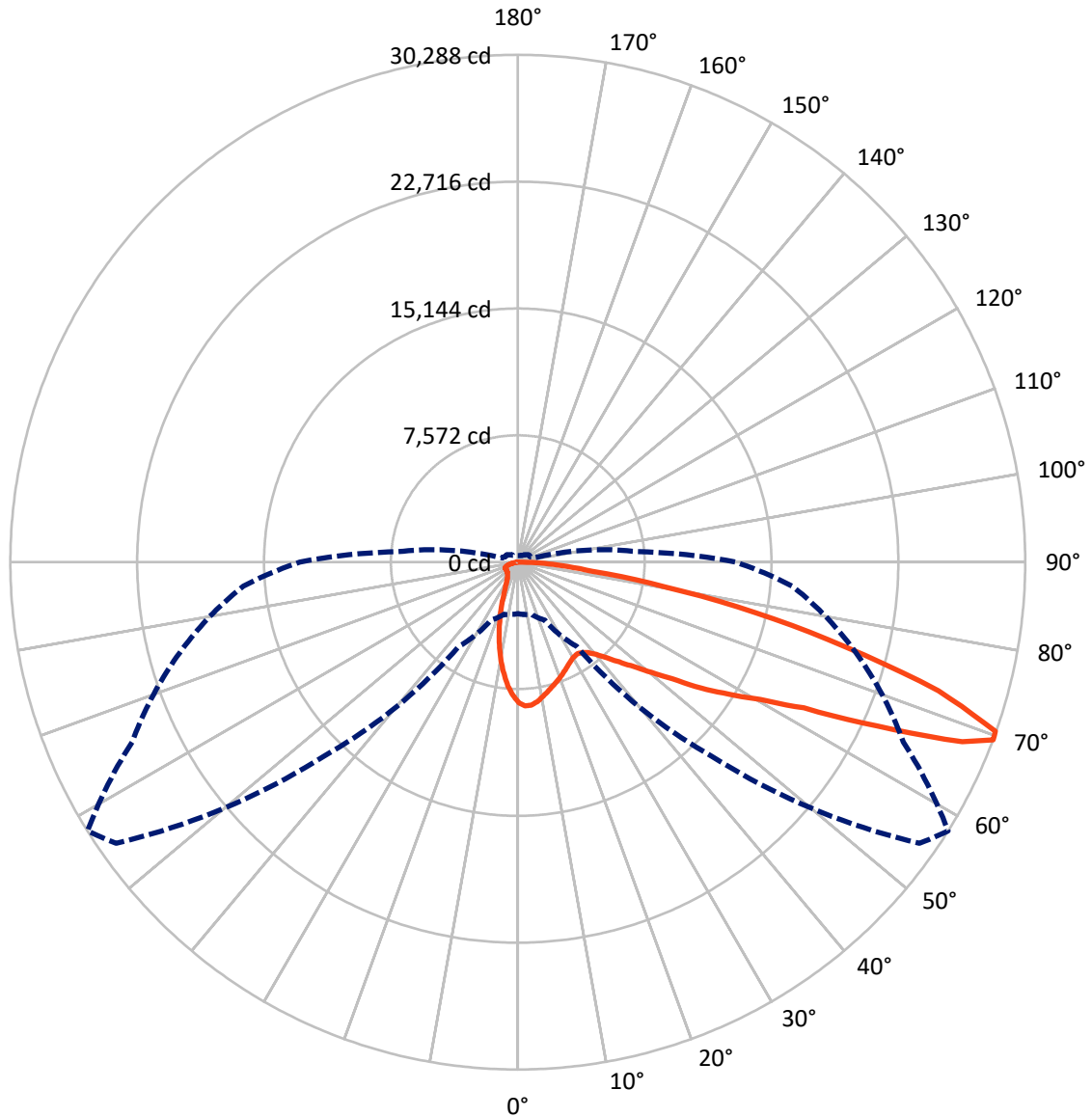
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4451.6	0.0	4451.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	25924.4	0.0	25924.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	30376.0	0.0	30376.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.9	2.3
10°-20°	1565.3	5.2
20°-30°	2022.4	6.7
30°-40°	2626.7	8.6
40°-50°	3818.9	12.6
50°-60°	6093.7	20.1
60°-70°	8140.5	26.8
70°-80°	4692.6	15.4
80°-90°	702.9	2.3
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°	30376.0	100.0
0°-180°	30376.0	100.0



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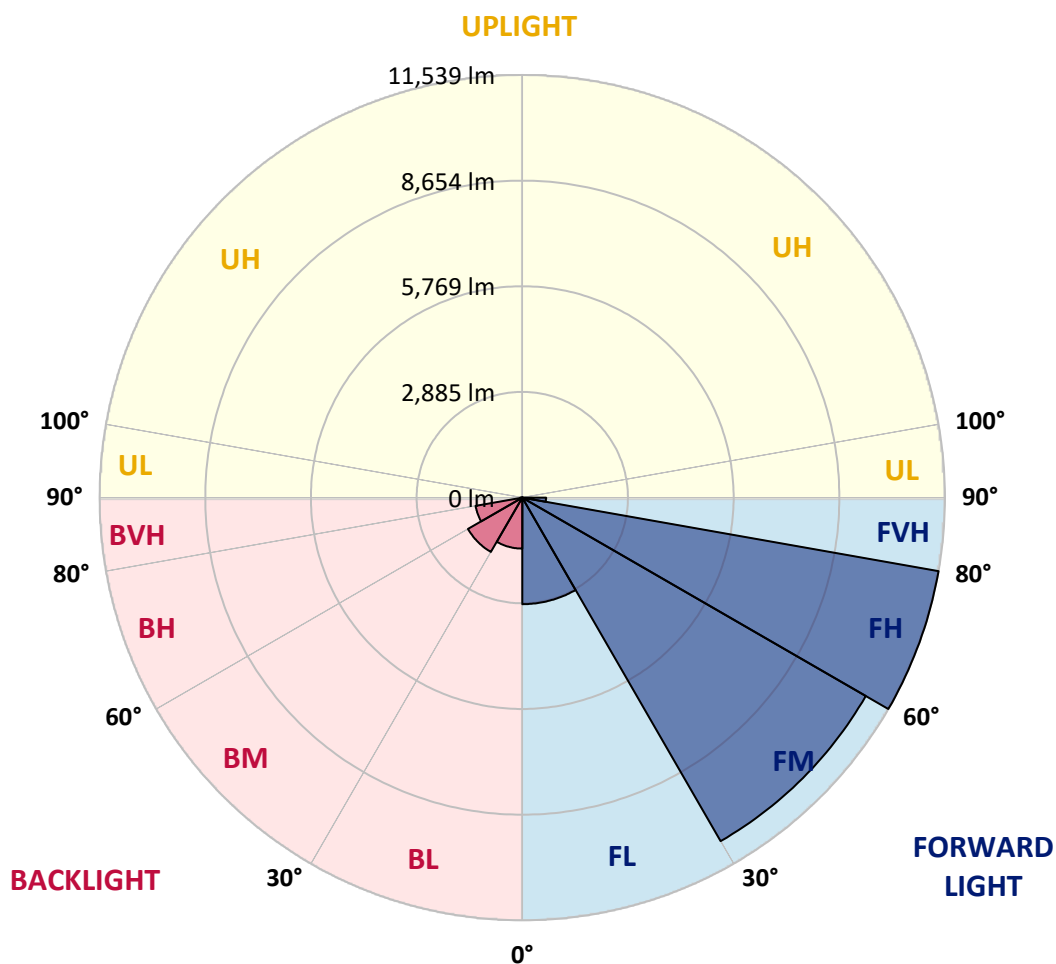
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2909.2	9.6			
FM	(30°-60°)	10827.5	35.6			
FH	(60°-80°)	11538.7	38.0			G4/12000
FVH	(80°-90°)	649.0	2.1			G4/750
BL	(0°-30°)	1391.4	4.6	B3/2500		
BM	(30°-60°)	1711.9	5.6	B2/2500		
BH	(60°-80°)	1294.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	53.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8394.1	8394.1	8394.1	8394.1	8394.1	8394.1	8394.1	8394.1	8394.1	8394.1	8394.1
2.5°	8705.9	8729.6	8722.8	8714.3	8700.8	8663.5	8602.5	8592.4	8553.4	8470.4	8367.0
5°	8572.0	8592.4	8594.0	8605.9	8622.8	8616.1	8572.0	8566.9	8509.3	8397.5	8224.7
7.5°	8112.9	8140.0	8199.3	8265.4	8324.7	8380.6	8394.1	8402.6	8367.0	8238.3	8007.9
10°	7596.2	7623.3	7650.4	7748.7	7894.4	8033.3	8148.5	8163.8	8172.2	8053.6	7772.4
12.5°	7023.6	7079.5	7137.1	7282.8	7477.7	7696.2	7899.5	7931.7	7989.3	7899.5	7569.1
15°	6537.4	6595.0	6678.0	6808.5	7044.0	7359.1	7645.4	7697.9	7811.4	7765.6	7379.4
17.5°	6200.3	6220.6	6278.2	6427.3	6681.4	7013.5	7396.3	7501.4	7682.6	7670.8	7216.8
20°	5934.3	5959.8	5995.3	6086.8	6351.1	6701.8	7164.2	7299.8	7545.4	7586.1	7055.8
22.5°	5822.5	5841.2	5836.1	5885.2	6064.8	6417.2	6928.8	7089.7	7423.4	7528.5	6906.7
25°	5829.3	5846.3	5820.8	5809.0	5915.7	6166.4	6683.1	6888.1	7325.2	7489.5	6771.2
27.5°	5942.8	5954.7	5907.2	5859.8	5868.3	6010.6	6479.8	6706.8	7242.2	7506.5	6657.7
30°	6095.3	6117.3	6086.8	6029.2	5966.5	5973.3	6349.4	6573.0	7203.2	7565.7	6603.5
32.5°	6291.8	6312.1	6298.6	6252.8	6171.5	6081.7	6317.2	6523.9	7206.6	7686.0	6591.7
35°	6498.5	6539.1	6561.2	6557.8	6491.7	6335.8	6444.3	6615.4	7287.9	7887.6	6661.1
37.5°	6732.3	6766.1	6861.0	6922.0	6861.0	6679.7	6730.6	6849.2	7467.5	8179.0	6813.6
40°	6959.3	7010.1	7149.0	7338.7	7315.0	7155.8	7167.6	7245.6	7784.3	8612.7	7111.7
42.5°	7196.4	7257.4	7499.7	7780.9	7836.8	7713.1	7745.3	7814.8	8234.9	9214.1	7623.3
45°	7501.4	7574.2	7872.4	8223.0	8443.3	8367.0	8458.5	8492.4	8838.0	9996.7	8297.6
47.5°	7894.4	7979.1	8346.7	8783.8	9095.5	9165.0	9324.2	9303.9	9585.1	10923.4	9171.7
50°	8556.8	8604.2	8951.5	9397.0	9825.6	10139.0	10311.8	10344.0	10511.7	11824.7	10149.2
52.5°	9344.5	9386.9	9637.6	10027.2	10564.3	11228.3	11655.2	11550.2	11590.9	12922.4	11292.7
55°	10230.5	10301.7	10460.9	10720.1	11416.4	12393.9	13251.1	13276.5	12825.9	13972.7	12388.8
57.5°	10916.6	11036.9	11309.7	11679.0	12561.6	13689.8	14841.8	14858.7	14282.8	15094.2	13598.4
60°	10571.0	10713.3	11336.8	12236.3	14064.2	15951.4	16742.6	16646.0	15700.7	16371.6	15073.9
62.5°	9080.2	9105.7	10012.0	11418.1	14526.7	18977.0	19571.7	19163.4	17593.0	17991.1	16573.1
65°	5876.8	6042.8	6761.1	8731.3	13007.1	20655.9	24528.5	23584.9	20245.9	19829.2	17828.5
67.5°	3710.0	3667.7	3965.8	4985.7	8946.4	19176.9	28758.6	28609.6	23715.4	20989.6	17528.6
69°	3076.4	3123.9	3225.5	3821.8	6156.3	16373.2	29258.4	30288.4	25397.6	20898.1	16439.3
70°	2790.1	2812.2	2918.9	3388.2	4750.2	13713.5	28438.5	30242.7	26058.3	20515.3	15649.9
72.5°	2214.2	2212.5	2395.4	2818.9	3550.8	7828.3	23351.1	26256.5	25319.7	18733.1	12930.9
75°	1682.2	1709.3	1910.9	2385.3	3271.3	4277.5	16295.3	20220.5	20222.2	14796.1	8068.9
77.5°	1213.0	1229.9	1465.4	2002.4	3081.5	3467.8	10853.9	14503.0	13633.9	6779.7	2536.0
80°	794.5	804.7	984.3	1585.7	2778.3	3271.3	6435.8	8877.0	6430.7	1799.1	838.6
82.5°	435.4	486.2	601.4	1026.6	2229.4	3022.2	3911.6	4492.7	2412.4	801.3	437.1
85°	218.5	232.1	338.8	599.7	1456.9	2500.5	2724.1	2576.7	1245.1	398.1	227.0
87.5°	64.4	81.3	140.6	232.1	591.2	1302.7	1516.2	1360.3	479.4	144.0	47.4
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°	8394.1	8394.1	8394.1	8394.1	8394.1	8394.1	8394.1	8394.1	8394.1	8394.1	8394.1
2.5°	8324.7	8294.2	8158.7	8036.7	7924.9	7806.3	7706.4	7618.3	7626.7	7628.4	7538.6
5°	8135.0	8065.5	7808.0	7567.4	7364.1	7106.7	6886.4	6744.1	6673.0	6578.1	6612.0
7.5°	7877.5	7743.6	7386.2	6986.4	6612.0	6278.2	5915.7	5666.7	5507.4	5353.3	5373.6
10°	7611.5	7396.3	6876.3	6347.7	5863.2	5329.6	4867.1	4470.7	4175.9	4065.8	3992.9
12.5°	7338.7	7055.8	6395.1	5692.1	5022.9	4384.3	3728.7	3303.4	2978.2	2805.4	2827.4
15°	7089.7	6745.8	5893.7	5036.5	4167.4	3406.8	2752.9	2348.0	2121.0	2073.5	2100.7
17.5°	6859.3	6408.7	5424.4	4399.5	3384.8	2554.7	2068.5	1839.8	1748.3	1722.9	1721.2
20°	6622.1	6122.4	4897.6	3718.5	2637.7	1980.4	1697.5	1590.7	1573.8	1584.0	1585.7
22.5°	6381.6	5768.3	4355.5	3042.6	2100.7	1619.5	1484.0	1455.2	1468.8	1492.5	1495.9
25°	6159.7	5456.6	3833.7	2449.6	1677.1	1423.0	1357.0	1357.0	1387.4	1423.0	1424.7
27.5°	5976.7	5155.1	3313.6	1944.8	1404.4	1280.7	1258.7	1270.6	1312.9	1340.0	1341.7
30°	5825.9	4873.9	2822.3	1558.6	1235.0	1167.2	1162.1	1182.5	1213.0	1238.4	1240.1
32.5°	5712.4	4626.5	2363.2	1309.5	1118.1	1080.8	1079.1	1094.4	1111.3	1118.1	1124.9
35°	5668.4	4421.5	1943.1	1152.0	1040.2	1016.4	1016.4	1014.8	1021.5	1024.9	1028.3
37.5°	5704.0	4264.0	1617.8	1050.3	982.6	965.6	955.5	945.3	941.9	941.9	943.6
40°	5854.7	4181.0	1375.6	984.3	941.9	916.5	897.9	886.0	874.1	877.5	880.9
42.5°	6174.9	4196.2	1211.3	940.2	906.3	870.8	843.6	830.1	821.6	831.8	830.1
45°	6684.8	4348.7	1106.2	909.7	870.8	825.0	799.6	786.1	786.1	801.3	806.4
47.5°	7398.0	4640.1	1050.3	886.0	843.6	789.4	764.0	753.9	757.3	782.7	784.4
50°	8268.8	5146.6	1040.2	874.1	830.1	764.0	735.2	725.1	733.5	760.6	764.0
52.5°	9229.3	5798.8	1089.3	875.8	818.2	748.8	711.5	696.3	704.7	726.8	733.5
55°	10367.7	6615.4	1216.3	882.6	801.3	740.3	694.6	660.7	670.9	686.1	687.8
57.5°	11529.9	7645.4	1440.0	884.3	787.7	725.1	665.8	621.7	621.7	631.9	637.0
60°	12949.5	8766.8	1734.7	886.0	789.4	703.0	626.8	577.7	570.9	576.0	577.7
62.5°	14359.0	9705.4	1783.9	880.9	806.4	681.0	584.5	533.6	521.8	520.1	516.7
65°	14980.7	9530.9	1462.0	857.2	825.0	667.5	550.6	491.3	471.0	464.2	464.2
67.5°	13967.7	8062.1	1099.5	825.0	813.2	653.9	518.4	455.7	432.0	418.4	418.4
69°	13015.6	7171.0	987.6	803.0	782.7	631.9	498.1	437.1	408.3	393.0	387.9
70°	12280.4	6557.8	940.2	784.4	753.9	606.5	482.8	423.5	391.3	374.4	371.0
72.5°	9800.2	5144.9	823.3	713.2	642.1	509.9	428.6	381.2	350.7	332.0	327.0
75°	5648.1	2788.4	682.7	620.0	516.7	396.4	362.5	332.0	308.3	291.4	286.3
77.5°	1738.1	1077.4	494.7	489.6	379.5	306.6	289.7	277.8	260.9	242.3	238.9
80°	731.8	548.9	335.4	330.3	252.4	213.5	208.4	206.7	199.9	184.7	179.6
82.5°	401.5	310.0	233.8	203.3	152.5	123.7	128.7	130.4	125.4	110.1	100.0
85°	196.5	169.4	113.5	91.5	69.5	44.0	42.4	50.8	47.4	33.9	37.3
87.5°	39.0	47.4	30.5	13.6	6.8	0.0	0.0	0.0	0.0	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)