

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: P650906

Luminaire Tested: **GALN-SA5C-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650906
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-SA5C-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 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: 29348.4 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

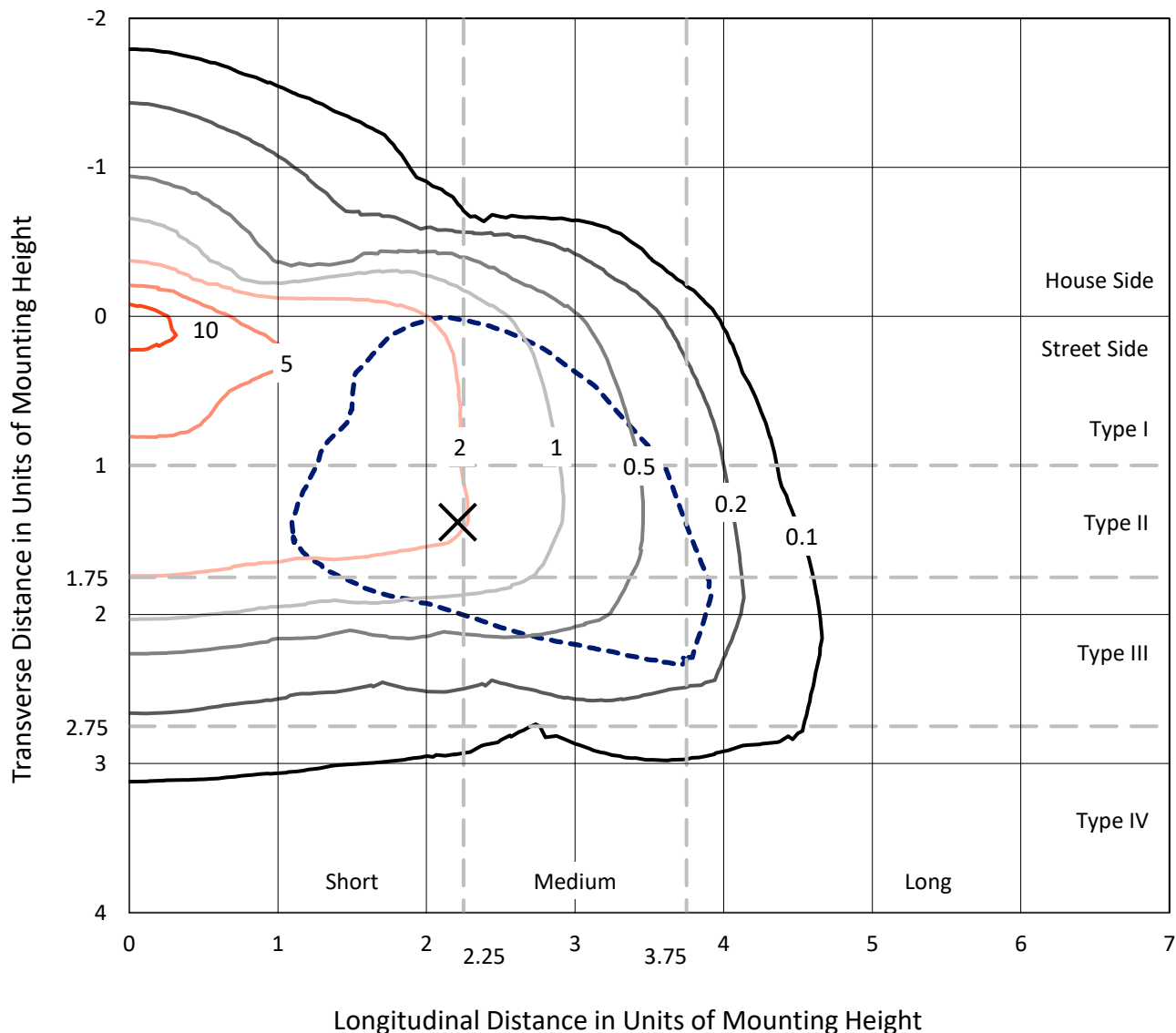
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

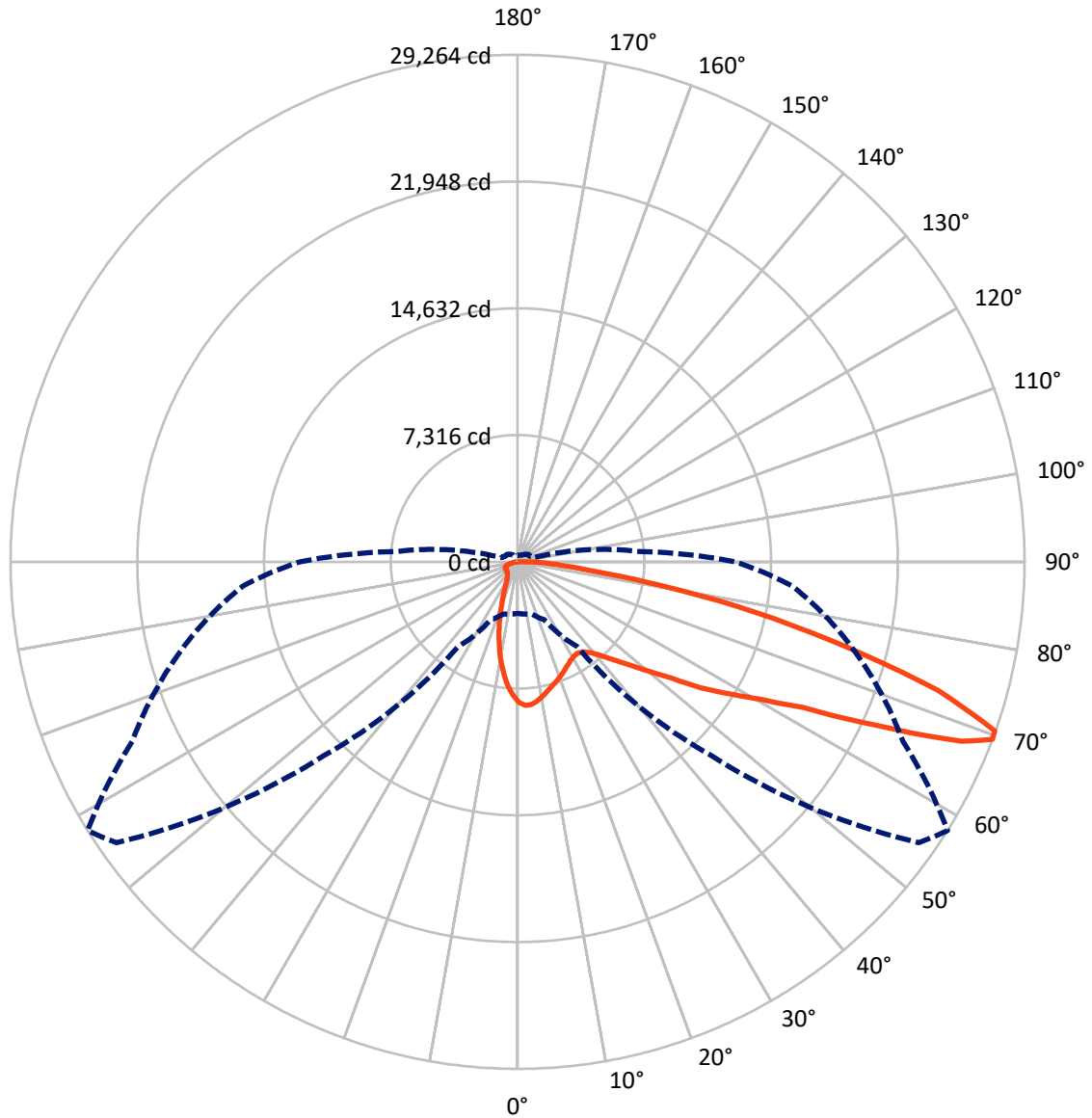
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	4301.0	0.0	4301.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	25047.4	0.0	25047.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	29348.4	0.0	29348.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.7	2.3
10°-20°	1512.4	5.2
20°-30°	1954.0	6.7
30°-40°	2537.9	8.6
40°-50°	3689.7	12.6
50°-60°	5887.6	20.1
60°-70°	7865.1	26.8
70°-80°	4533.9	15.4
80°-90°	679.1	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°	29348.4	100.0
0°-180°	29348.4	100.0

Coefficient of Utilization



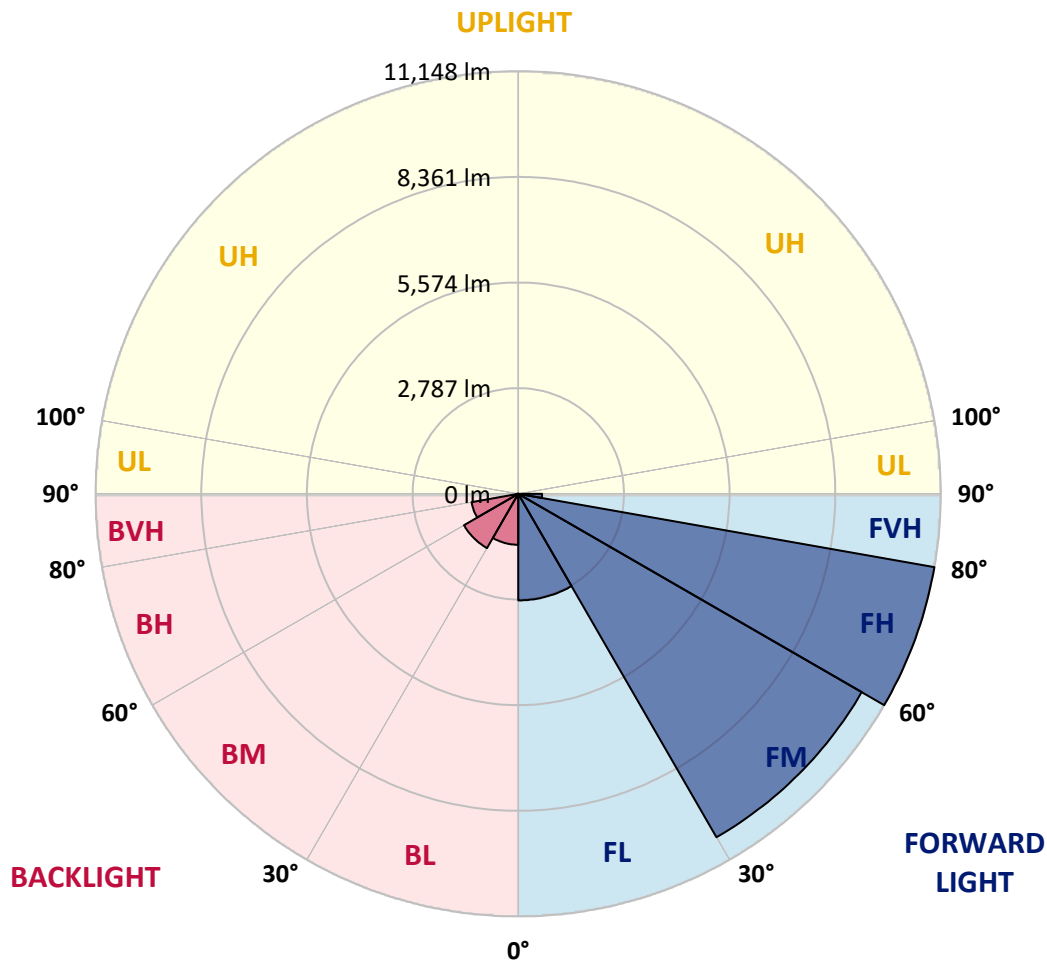
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2810.8	9.6			
FM (30°-60°)	10461.2	35.6			
FH (60°-80°)	11148.3	38.0			G4/12000
FVH (80°-90°)	627.1	2.1			G4/750
BL (0°-30°)	1344.3	4.6	B3/2500		
BM (30°-60°)	1654.0	5.6	B2/2500		
BH (60°-80°)	1250.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	52.0	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°	8110.2	8110.2	8110.2	8110.2	8110.2	8110.2	8110.2	8110.2	8110.2	8110.2	8110.2
2.5°	8411.3	8434.2	8427.7	8419.5	8406.5	8370.4	8311.5	8301.7	8264.0	8183.9	8083.9
5°	8282.0	8301.7	8303.3	8314.8	8331.1	8324.6	8282.0	8277.1	8221.4	8113.5	7946.5
7.5°	7838.5	7864.7	7922.0	7985.8	8043.1	8097.1	8110.2	8118.3	8083.9	7959.6	7737.0
10°	7339.2	7365.5	7391.6	7486.6	7627.4	7761.5	7872.9	7887.6	7895.7	7781.2	7509.5
12.5°	6786.0	6840.0	6895.7	7036.5	7224.7	7435.8	7632.2	7663.4	7719.0	7632.2	7313.1
15°	6316.2	6371.9	6452.2	6578.1	6805.7	7110.2	7386.8	7437.5	7547.1	7502.9	7129.7
17.5°	5990.5	6010.2	6065.9	6209.9	6455.4	6776.2	7146.1	7247.6	7422.8	7411.3	6972.6
20°	5733.6	5758.2	5792.5	5880.9	6136.3	6475.0	6921.9	7052.8	7290.1	7329.4	6817.1
22.5°	5625.5	5643.5	5638.7	5686.1	5859.6	6200.1	6694.4	6849.9	7172.3	7273.8	6673.1
25°	5632.1	5648.5	5623.9	5612.5	5715.6	5957.8	6457.0	6655.1	7077.4	7236.1	6542.1
27.5°	5741.8	5753.2	5707.4	5661.6	5669.8	5807.3	6260.7	6480.0	6997.2	7252.5	6432.5
30°	5889.1	5910.4	5880.9	5825.3	5764.7	5771.2	6134.6	6350.6	6959.5	7309.8	6380.1
32.5°	6078.9	6098.6	6085.5	6041.3	5962.8	5876.0	6103.5	6303.2	6962.8	7426.0	6368.6
35°	6278.7	6317.9	6339.2	6335.9	6272.1	6121.5	6226.3	6391.6	7041.4	7620.8	6435.8
37.5°	6504.5	6537.3	6628.9	6687.8	6628.9	6453.7	6502.9	6617.4	7214.9	7902.3	6583.1
40°	6723.8	6772.9	6907.1	7090.5	7067.5	6913.7	6925.1	7000.5	7521.0	8321.3	6871.1
42.5°	6953.0	7011.9	7246.0	7517.7	7571.7	7452.2	7483.3	7550.4	7956.3	8902.4	7365.5
45°	7247.6	7318.0	7606.1	7944.8	8157.6	8083.9	8172.3	8205.1	8539.0	9658.5	8016.9
47.5°	7627.4	7709.2	8064.3	8486.6	8787.8	8854.9	9008.8	8989.1	9260.8	10553.9	8861.4
50°	8267.3	8313.1	8648.7	9079.1	9493.2	9796.1	9963.0	9994.1	10156.2	11424.6	9805.9
52.5°	9028.4	9069.3	9311.6	9688.0	10206.9	10848.5	11260.9	11159.5	11198.8	12485.2	10910.7
55°	9884.4	9953.2	10107.1	10357.4	11030.1	11974.6	12802.8	12827.4	12392.0	13500.1	11969.7
57.5°	10547.3	10663.5	10927.0	11283.9	12136.6	13226.7	14339.7	14356.0	13799.5	14583.6	13138.4
60°	10213.4	10350.9	10953.3	11822.4	13588.5	15411.7	16176.1	16082.9	15169.5	15817.7	14563.9
62.5°	8773.1	8797.6	9673.3	11031.8	14035.3	18335.1	18909.5	18515.1	16997.8	17382.5	16012.5
65°	5677.9	5838.3	6532.3	8435.9	12567.1	19957.1	23698.7	22787.1	19561.0	19158.3	17225.4
67.5°	3584.5	3543.6	3831.7	4817.0	8643.8	18528.2	27785.7	27641.7	22913.0	20279.5	16935.6
69°	2972.3	3018.2	3116.4	3692.6	5948.0	15819.4	28268.6	29263.8	24538.4	20191.1	15883.2
70°	2695.7	2717.0	2820.1	3273.5	4589.5	13249.6	27476.4	29219.5	25176.8	19821.2	15120.4
72.5°	2139.3	2137.7	2314.3	2723.6	3430.7	7563.5	22561.2	25368.3	24463.1	18099.3	12493.4
75°	1625.3	1651.5	1846.2	2304.6	3160.6	4132.8	15744.0	19536.4	19538.1	14295.5	7795.9
77.5°	1171.9	1188.3	1415.8	1934.6	2977.3	3350.5	10486.8	14012.3	13172.7	6550.3	2450.3
80°	767.7	777.5	951.0	1532.0	2684.3	3160.6	6218.1	8576.7	6213.1	1738.3	810.2
82.5°	420.7	469.8	581.0	991.9	2154.0	2920.0	3779.3	4340.7	2330.7	774.2	422.3
85°	211.2	224.2	327.3	579.4	1407.6	2415.9	2631.9	2489.5	1203.1	384.7	219.3
87.5°	62.2	78.5	135.8	224.2	571.2	1258.6	1464.9	1314.3	463.2	139.1	45.8
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°	8110.2	8110.2	8110.2	8110.2	8110.2	8110.2	8110.2	8110.2	8110.2	8110.2	8110.2
2.5°	8043.1	8013.6	7882.7	7764.8	7656.8	7542.3	7445.6	7360.5	7368.8	7370.4	7283.6
5°	7859.7	7792.6	7543.9	7311.4	7115.0	6866.3	6653.5	6516.0	6447.2	6355.5	6388.3
7.5°	7611.0	7481.6	7136.3	6750.0	6388.3	6065.9	5715.6	5475.0	5321.1	5172.2	5191.8
10°	7354.0	7146.1	6643.6	6133.0	5664.8	5149.3	4702.5	4319.5	4034.6	3928.2	3857.8
12.5°	7090.5	6817.1	6178.8	5499.6	4853.0	4235.9	3602.5	3191.7	2877.4	2710.5	2731.7
15°	6849.9	6517.6	5694.3	4866.1	4026.5	3291.5	2659.7	2268.6	2049.3	2003.4	2029.6
17.5°	6627.2	6191.9	5240.9	4250.7	3270.2	2468.3	1998.5	1777.5	1689.1	1664.6	1663.0
20°	6398.1	5915.3	4731.9	3592.7	2548.5	1913.4	1640.0	1536.9	1520.5	1530.4	1532.0
22.5°	6165.7	5573.2	4208.1	2939.6	2029.6	1564.8	1433.8	1406.0	1419.1	1442.0	1445.3
25°	5951.3	5272.1	3704.0	2366.7	1620.4	1374.9	1311.0	1311.0	1340.5	1374.9	1376.5
27.5°	5774.5	4980.7	3201.5	1879.0	1356.9	1237.4	1216.1	1227.6	1268.5	1294.7	1296.3
30°	5628.8	4709.0	2726.9	1505.8	1193.2	1127.7	1122.8	1142.5	1171.9	1196.5	1198.1
32.5°	5519.1	4470.0	2283.3	1265.2	1080.3	1044.3	1042.6	1057.4	1073.7	1080.3	1086.8
35°	5476.6	4271.9	1877.4	1113.0	1005.0	982.0	982.0	980.4	987.0	990.3	993.6
37.5°	5511.0	4119.7	1563.1	1014.8	949.3	932.9	923.2	913.3	910.0	910.0	911.6
40°	5656.7	4039.6	1329.0	951.0	910.0	885.5	867.5	856.1	844.5	847.8	851.1
42.5°	5966.0	4054.3	1170.3	908.4	875.6	841.3	815.1	802.0	793.8	803.7	802.0
45°	6458.7	4201.6	1068.8	878.9	841.3	797.1	772.5	759.4	759.4	774.2	779.1
47.5°	7147.7	4483.1	1014.8	856.1	815.1	762.7	738.1	728.4	731.7	756.2	757.8
50°	7989.1	4972.5	1005.0	844.5	802.0	738.1	710.4	700.6	708.7	734.9	738.1
52.5°	8917.1	5602.7	1052.4	846.2	790.5	723.4	687.4	672.7	680.9	702.2	708.7
55°	10017.0	6391.6	1175.2	852.8	774.2	715.3	671.0	638.3	648.2	662.9	664.6
57.5°	11139.8	7386.8	1391.3	854.4	761.1	700.6	643.3	600.7	600.7	610.5	615.4
60°	12511.5	8470.3	1676.0	856.1	762.7	679.3	605.6	558.2	551.6	556.5	558.2
62.5°	13873.2	9377.1	1723.5	851.1	779.1	658.0	564.6	515.6	504.1	502.5	499.2
65°	14473.9	9208.4	1412.5	828.2	797.1	644.9	531.9	474.7	455.0	448.5	448.5
67.5°	13495.1	7789.3	1062.3	797.1	785.7	631.8	500.8	440.3	417.4	404.3	404.3
69°	12575.3	6928.4	954.2	775.8	756.2	610.5	481.2	422.3	394.4	379.7	374.8
70°	11864.9	6335.9	908.4	757.8	728.4	585.9	466.5	409.2	378.1	361.7	358.4
72.5°	9468.7	4970.9	795.5	689.1	620.3	492.7	414.1	368.3	338.8	320.8	315.9
75°	5457.0	2694.1	659.6	599.0	499.2	383.0	350.3	320.8	297.9	281.5	276.6
77.5°	1679.3	1041.0	477.9	473.1	366.7	296.3	279.9	268.4	252.0	234.1	230.8
80°	707.1	530.3	324.1	319.2	243.9	206.2	201.3	199.7	193.2	178.4	173.5
82.5°	388.0	299.6	225.9	196.4	147.3	119.5	124.4	126.1	121.1	106.4	96.5
85°	189.9	163.7	109.7	88.4	67.1	42.6	41.0	49.1	45.8	32.7	36.0
87.5°	37.7	45.8	29.4	13.1	6.6	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)