

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: P457188

Luminaire Tested: **GALN-SA8C-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457188
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-SA8C-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 51245 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

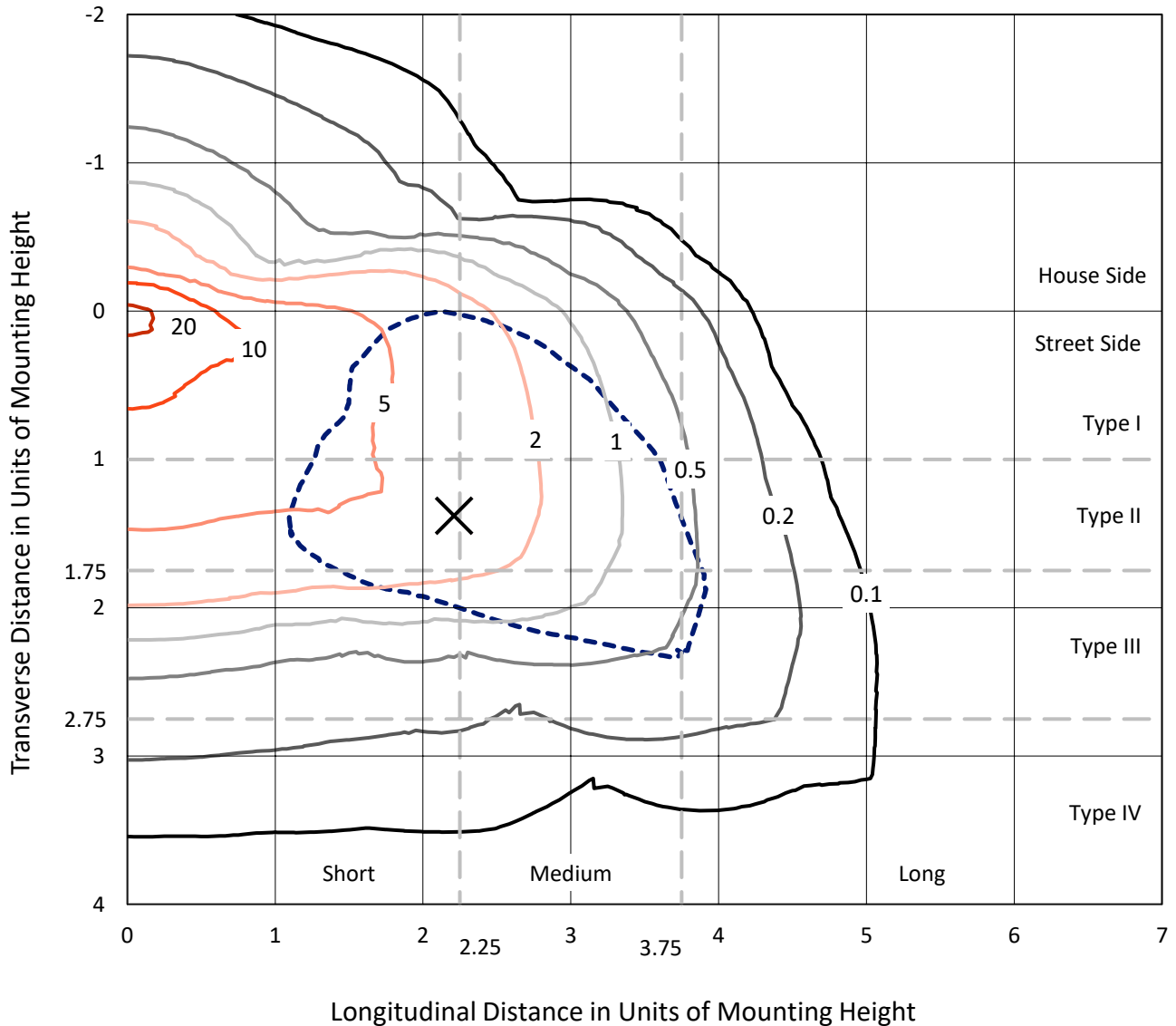
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457188
 CATALOG NUMBER: GALN-SA8C-730-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

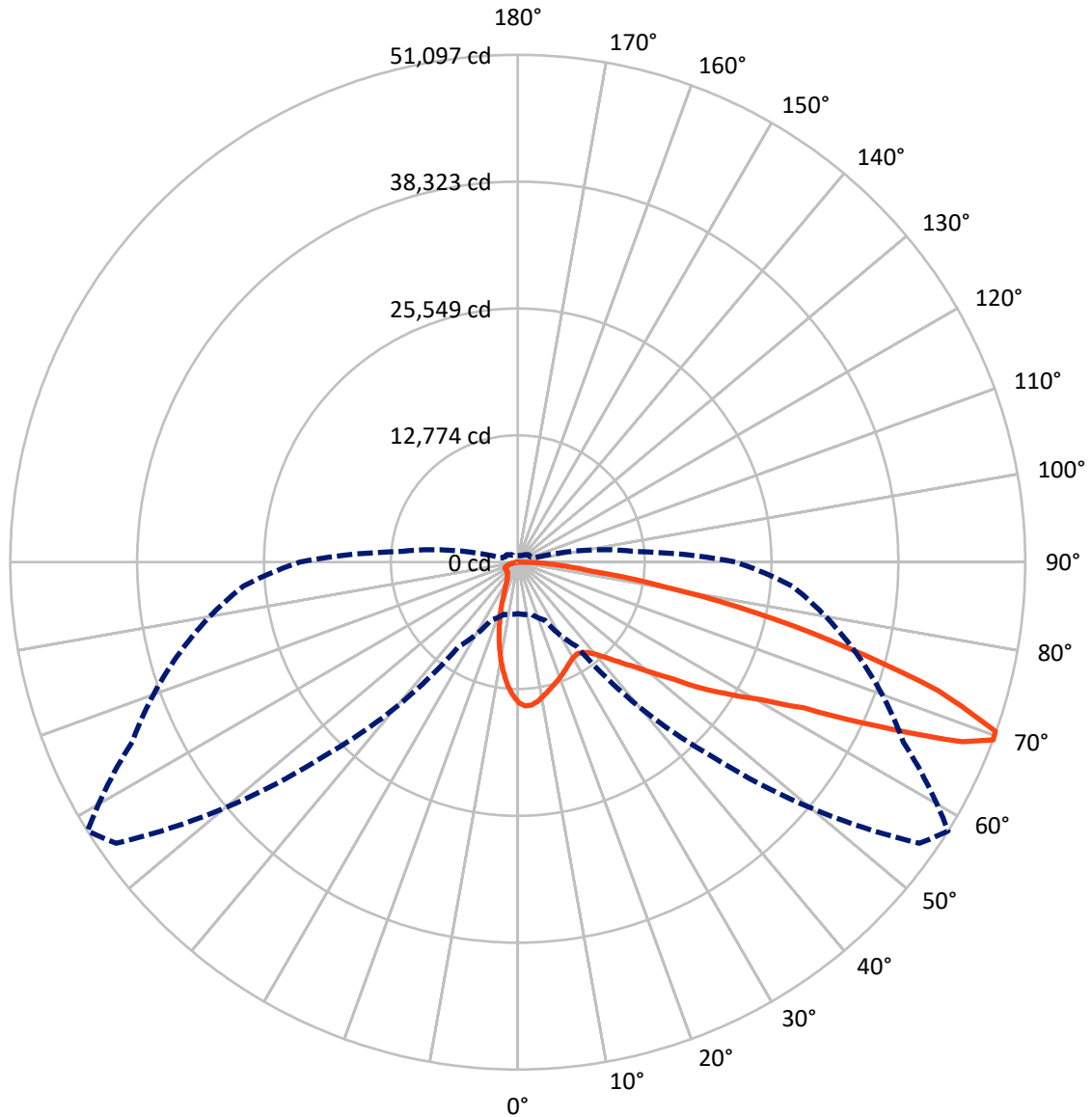
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.7 fc
 Type III - Short - N/A

REPORT NUMBER: P457188
CATALOG NUMBER: GALN-SA8C-730-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457188

CATALOG NUMBER: GALN-SA8C-730-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7510.0	0.0	7510.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	43735.0	0.0	43735.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	51245.0	0.0	51245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1202.6	2.3
10°-20°	2640.8	5.2
20°-30°	3411.9	6.7
30°-40°	4431.4	8.6
40°-50°	6442.6	12.6
50°-60°	10280.3	20.1
60°-70°	13733.1	26.8
70°-80°	7916.6	15.4
80°-90°	1185.7	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°	51245.0	100.0
0°-180°	51245.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457188

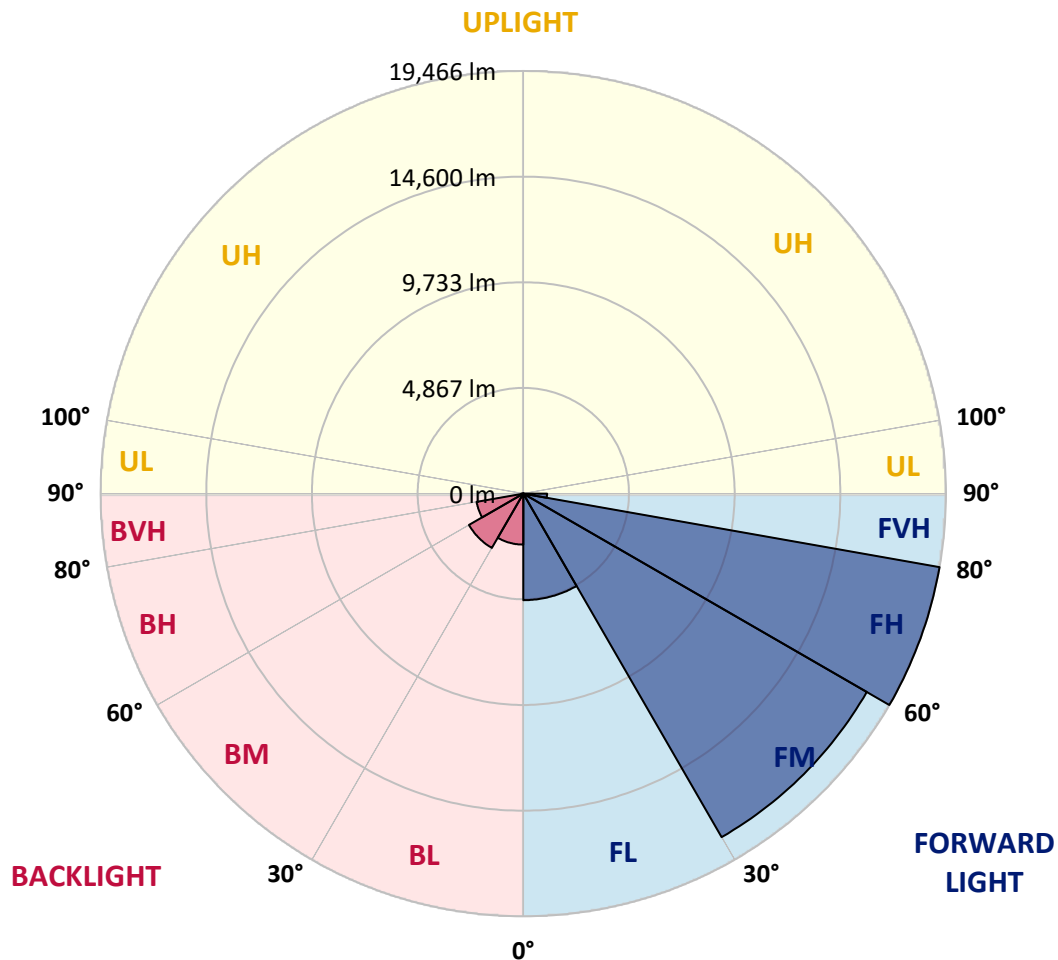
CATALOG NUMBER: GALN-SA8C-730-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4908.0	9.6			
FM	(30°-60°)	18266.2	35.6			
FH	(60°-80°)	19466.0	38.0			G5
FVH	(80°-90°)	1094.9	2.1			G5
BL	(0°-30°)	2347.3	4.6	B3/2500		
BM	(30°-60°)	2888.1	5.6	B3/5000		
BH	(60°-30°)	2183.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	90.8	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-G5

Type III Short





REPORT NUMBER: P457188
 CATALOG NUMBER: GALN-SA8C-730-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14161.1	14161.1	14161.1	14161.1	14161.1	14161.1	14161.1	14161.1	14161.1	14161.1	14161.1
2.5°	14687.0	14727.0	14715.6	14701.3	14678.4	14615.5	14512.6	14495.5	14429.8	14289.7	14115.4
5°	14461.2	14495.5	14498.4	14518.4	14546.9	14535.5	14461.2	14452.6	14355.5	14166.8	13875.3
7.5°	13686.7	13732.4	13832.5	13943.9	14043.9	14138.3	14161.1	14175.4	14115.4	13898.2	13509.5
10°	12815.0	12860.8	12906.5	13072.2	13318.0	13552.4	13746.7	13772.4	13786.7	13586.7	13112.3
12.5°	11849.0	11943.4	12040.5	12286.3	12615.0	12983.6	13326.6	13380.9	13478.1	13326.6	12769.3
15°	11028.8	11126.0	11266.0	11486.1	11883.3	12414.9	12897.9	12986.5	13178.0	13100.8	12449.2
17.5°	10460.1	10494.4	10591.5	10843.0	11271.7	11831.9	12477.8	12655.0	12960.8	12940.8	12174.8
20°	10011.4	10054.3	10114.3	10268.6	10714.4	11306.0	12086.2	12314.9	12729.3	12797.9	11903.3
22.5°	9822.8	9854.2	9845.6	9928.5	10231.4	10825.9	11689.0	11960.5	12523.5	12700.7	11651.8
25°	9834.2	9862.8	9819.9	9799.9	9979.9	10402.9	11274.6	11620.4	12357.8	12635.0	11423.2
27.5°	10025.7	10045.7	9965.7	9885.6	9899.9	10140.0	10931.6	11314.6	12217.7	12663.6	11231.7
30°	10282.9	10320.0	10268.6	10171.4	10065.7	10077.1	10711.6	11088.8	12152.0	12763.6	11140.3
32.5°	10614.4	10648.7	10625.8	10548.7	10411.5	10260.0	10657.3	11005.9	12157.7	12966.5	11120.3
35°	10963.1	11031.7	11068.8	11063.1	10951.6	10688.7	10871.6	11160.3	12294.9	13306.6	11237.4
37.5°	11357.5	11414.6	11574.7	11677.6	11574.7	11268.9	11354.6	11554.7	12597.8	13798.2	11494.7
40°	11740.4	11826.2	12060.5	12380.6	12340.6	12072.0	12092.0	12223.4	13132.3	14529.8	11997.7
42.5°	12140.6	12243.4	12652.1	13126.5	13220.9	13012.2	13066.5	13183.7	13892.5	15544.4	12860.8
45°	12655.0	12777.9	13280.9	13872.5	14244.0	14115.4	14269.7	14326.9	14909.9	16864.7	13998.2
47.5°	13318.0	13460.9	14081.1	14818.4	15344.3	15461.5	15730.1	15695.8	16170.3	18428.0	15472.9
50°	14435.5	14515.5	15101.4	15853.0	16576.1	17104.8	17396.3	17450.6	17733.5	19948.5	17121.9
52.5°	15764.4	15835.9	16258.8	16916.2	17822.1	18942.5	19662.7	19485.5	19554.1	21800.4	19051.1
55°	17259.1	17379.2	17647.8	18085.1	19259.7	20908.7	22354.8	22397.7	21637.5	23572.3	20900.2
57.5°	18416.6	18619.5	19079.6	19702.7	21191.7	23095.1	25038.5	25067.0	24095.3	25464.3	22940.7
60°	17833.6	18073.6	19125.4	20642.9	23726.7	26910.4	28245.1	28082.2	26487.4	27619.2	25430.0
62.5°	15318.6	15361.5	16890.5	19262.5	24506.9	32014.7	33017.8	32329.1	29679.8	30351.4	27959.3
65°	9914.2	10194.3	11406.1	14729.8	21943.3	34846.9	41380.2	39788.3	34155.3	33452.2	30077.0
67.5°	6258.9	6187.5	6690.4	8410.9	15092.8	32351.9	48516.5	48265.0	40008.4	35409.9	29571.2
69°	5190.0	5270.1	5441.5	6447.5	10385.8	27622.0	49359.6	51097.2	42846.3	35255.6	27733.5
70°	4707.0	4744.2	4924.2	5715.9	8013.7	23135.1	47976.3	51020.0	43960.9	34609.7	26401.7
72.5°	3735.3	3732.5	4041.1	4755.6	5990.3	13206.6	39393.9	44295.3	42714.8	31603.2	21814.7
75°	2837.9	2883.7	3223.8	4024.0	5518.7	7216.3	27490.6	34112.4	34115.3	24961.3	13612.4
77.5°	2046.3	2074.9	2472.1	3378.1	5198.6	5850.2	18310.9	24466.9	23000.7	11437.5	4278.3
80°	1340.4	1357.5	1660.5	2675.0	4687.0	5518.7	10857.3	14975.6	10848.8	3035.1	1414.7
82.5°	734.5	820.2	1014.6	1731.9	3761.1	5098.6	6599.0	7579.3	4069.7	1351.8	737.3
85°	368.7	391.5	571.6	1011.7	2457.8	4218.3	4595.6	4346.9	2100.6	671.6	383.0
87.5°	108.6	137.2	237.2	391.5	997.4	2197.8	2557.9	2294.9	808.8	242.9	80.0
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: P457188

CATALOG NUMBER: GALN-SA8C-730-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14161.1	14161.1	14161.1	14161.1	14161.1	14161.1	14161.1	14161.1	14161.1	14161.1	14161.1
2.5°	14043.9	13992.5	13763.9	13558.1	13369.5	13169.4	13000.8	12852.2	12866.5	12869.3	12717.9
5°	13723.9	13606.7	13172.3	12766.4	12423.5	11989.1	11617.5	11377.5	11257.4	11097.4	11154.6
7.5°	13289.4	13063.7	12460.6	11786.2	11154.6	10591.5	9979.9	9559.8	9291.2	9031.1	9065.4
10°	12840.7	12477.8	11600.4	10708.7	9891.3	8991.1	8210.9	7542.1	7044.8	6859.1	6736.2
12.5°	12380.6	11903.3	10788.7	9602.7	8473.8	7396.4	6290.3	5573.0	5024.3	4732.8	4769.9
15°	11960.5	11380.3	9942.8	8496.7	7030.5	5747.3	4644.2	3961.1	3578.1	3498.1	3543.9
17.5°	11571.8	10811.6	9151.1	7422.1	5710.2	4309.8	3489.6	3103.7	2949.4	2906.5	2903.7
20°	11171.7	10328.6	8262.3	6273.2	4449.8	3340.9	2863.7	2683.6	2655.0	2672.2	2675.0
22.5°	10765.9	9731.3	7347.8	5132.9	3543.9	2732.2	2503.6	2455.0	2477.8	2517.8	2523.6
25°	10391.5	9205.4	6467.5	4132.6	2829.4	2400.7	2289.2	2289.2	2340.7	2400.7	2403.5
27.5°	10082.8	8696.7	5590.1	3280.9	2369.2	2160.6	2123.5	2143.5	2214.9	2260.6	2263.5
30°	9828.5	8222.3	4761.3	2629.3	2083.4	1969.1	1960.6	1994.8	2046.3	2089.2	2092.0
32.5°	9637.0	7805.0	3986.8	2209.2	1886.2	1823.4	1820.5	1846.2	1874.8	1886.2	1897.7
35°	9562.7	7459.2	3278.1	1943.4	1754.8	1714.8	1714.8	1711.9	1723.3	1729.1	1734.8
37.5°	9622.7	7193.4	2729.3	1771.9	1657.6	1629.0	1611.9	1594.7	1589.0	1589.0	1591.9
40°	9877.1	7053.4	2320.7	1660.5	1589.0	1546.1	1514.7	1494.7	1474.7	1480.4	1486.1
42.5°	10417.2	7079.1	2043.4	1586.2	1529.0	1469.0	1423.3	1400.4	1386.1	1403.3	1400.4
45°	11277.5	7336.3	1866.2	1534.7	1469.0	1391.8	1349.0	1326.1	1326.1	1351.8	1360.4
47.5°	12480.6	7827.9	1771.9	1494.7	1423.3	1331.8	1288.9	1271.8	1277.5	1320.4	1323.2
50°	13949.6	8682.4	1754.8	1474.7	1400.4	1288.9	1240.3	1223.2	1237.5	1283.2	1288.9
52.5°	15570.1	9782.7	1837.7	1477.6	1380.4	1263.2	1200.3	1174.6	1188.9	1226.1	1237.5
55°	17490.6	11160.3	2052.0	1489.0	1351.8	1248.9	1171.8	1114.6	1131.7	1157.5	1160.3
57.5°	19451.2	12897.9	2429.3	1491.8	1328.9	1223.2	1123.2	1048.9	1048.9	1066.0	1074.6
60°	21846.1	14789.9	2926.5	1494.7	1331.8	1186.0	1057.4	974.6	963.1	971.7	974.6
62.5°	24223.9	16373.2	3009.4	1486.1	1360.4	1148.9	986.0	900.3	880.2	877.4	871.7
65°	25272.8	16078.8	2466.4	1446.1	1391.8	1126.0	928.8	828.8	794.5	783.1	783.1
67.5°	23563.8	13601.0	1854.8	1391.8	1371.8	1103.2	874.5	768.8	728.8	705.9	705.9
69°	21957.6	12097.7	1666.2	1354.7	1320.4	1066.0	840.2	737.3	688.8	663.0	654.5
70°	20717.2	11063.1	1586.2	1323.2	1271.8	1023.1	814.5	714.5	660.2	631.6	625.9
72.5°	16533.2	8679.6	1389.0	1203.2	1083.2	860.2	723.1	643.0	591.6	560.2	551.6
75°	9528.4	4704.2	1151.8	1046.0	871.7	668.8	611.6	560.2	520.1	491.6	483.0
77.5°	2932.3	1817.7	834.5	825.9	640.2	517.3	488.7	468.7	440.1	408.7	403.0
80°	1234.6	926.0	565.9	557.3	425.8	360.1	351.5	348.7	337.2	311.5	302.9
82.5°	677.3	523.0	394.4	343.0	257.2	208.6	217.2	220.1	211.5	185.8	168.6
85°	331.5	285.8	191.5	154.3	117.2	74.3	71.4	85.7	80.0	57.2	62.9
87.5°	65.7	80.0	51.4	22.9	11.4	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)