

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: P456258

Luminaire Tested: **GALN-SA7C-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44515 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

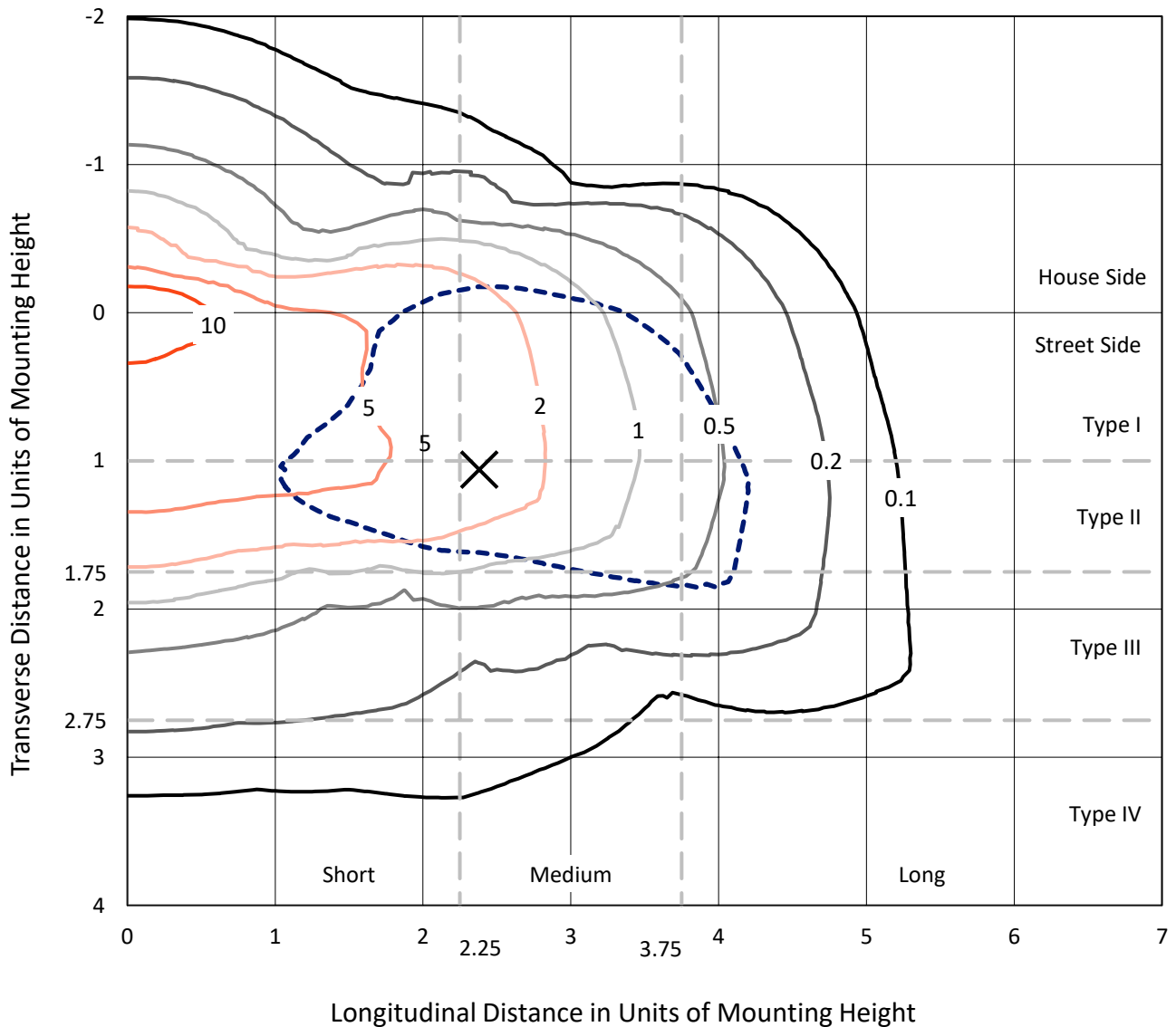
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456258
 CATALOG NUMBER: GALN-SA7C-730-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

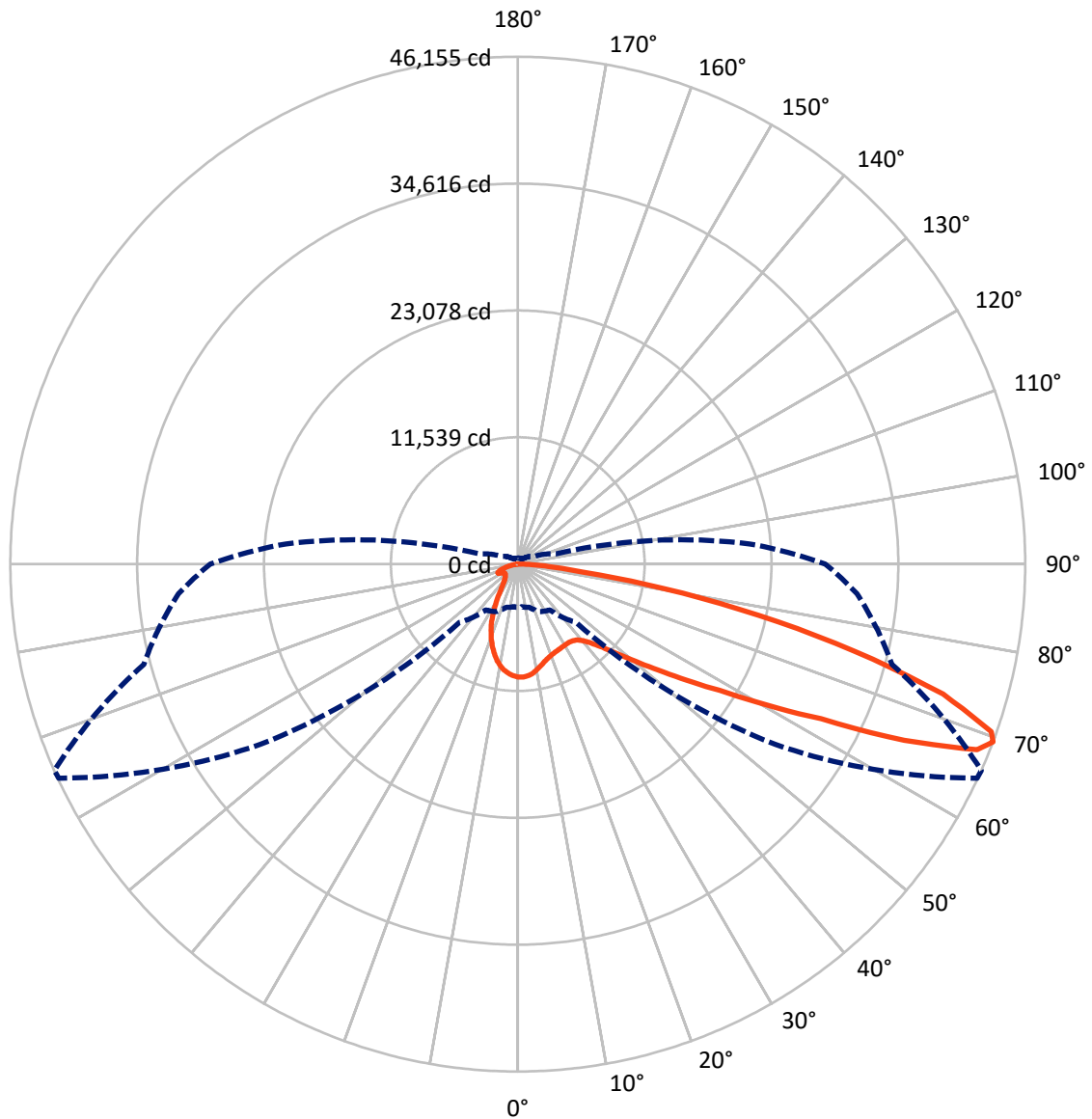
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P456258
CATALOG NUMBER: GALN-SA7C-730-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P456258

CATALOG NUMBER: GALN-SA7C-730-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8371.6	0.0	8371.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	36143.4	0.0	36143.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	44515.0	0.0	44515.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	892.7	2.0
10°-20°	2117.4	4.8
20°-30°	2882.5	6.5
30°-40°	3873.5	8.7
40°-50°	5783.8	13.0
50°-60°	9200.0	20.7
60°-70°	11315.5	25.4
70°-80°	7362.4	16.5
80°-90°	1087.2	2.4
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°	44515.0	100.0
0°-180°	44515.0	100.0



REPORT NUMBER: P456258

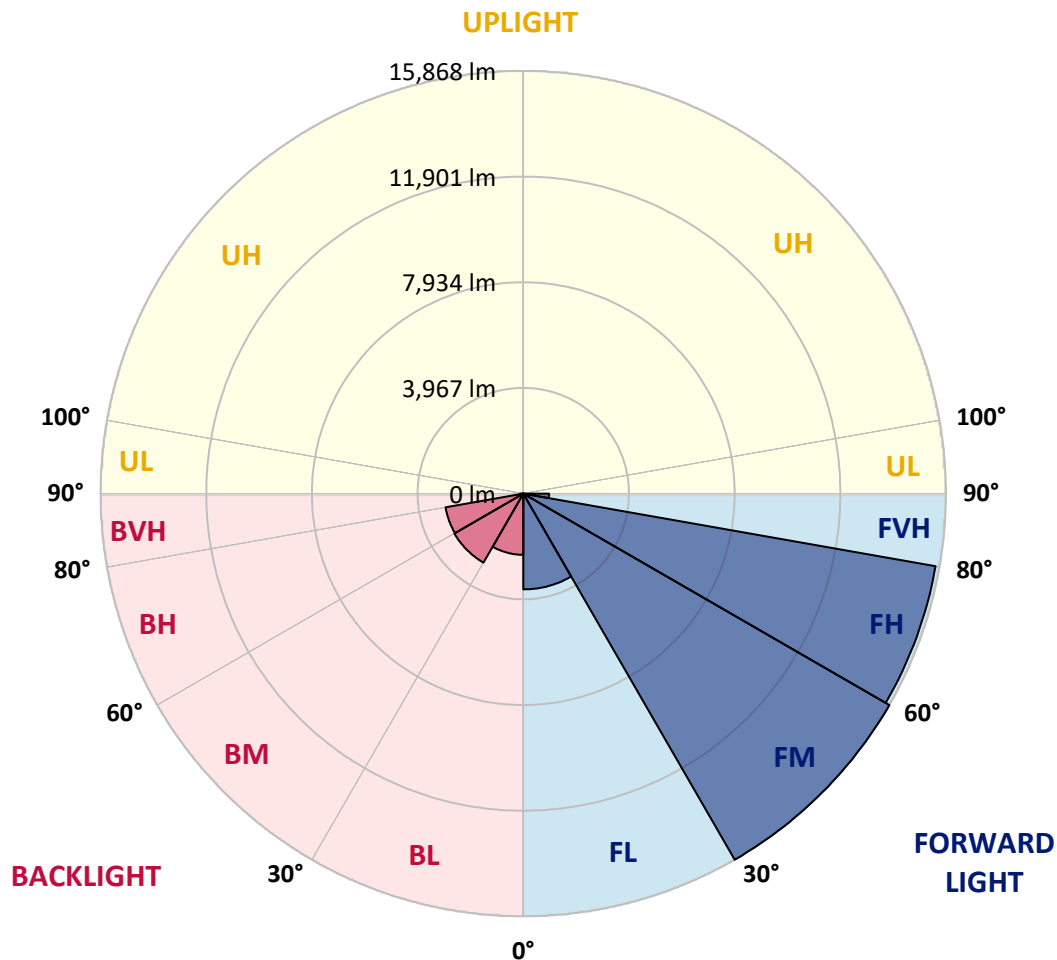
CATALOG NUMBER: GALN-SA7C-730-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3594.5	8.1			
FM	(30°-60°)	15868.3	35.6			
FH	(60°-80°)	15714.0	35.3			G5
FVH	(80°-90°)	966.6	2.2			G5
BL	(0°-30°)	2298.0	5.2	B3/2500		
BM	(30°-60°)	2989.0	6.7	B3/5000		
BH	(60°-80°)	2963.9	6.7	B4/5000		G4/5000
BVH	(80°-90°)	120.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





REPORT NUMBER: P456258

CATALOG NUMBER: GALN-SA7C-730-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	10279.8	10279.8	10279.8	10279.8	10279.8	10279.8	10279.8	10279.8	10279.8	10279.8	10279.8
2.5°	9919.8	9959.3	10003.7	10053.0	10146.6	10198.4	10235.4	10277.3	10282.2	10304.4	10287.1
5°	9187.7	9234.5	9301.1	9394.8	9535.3	9754.7	9981.5	10166.4	10188.5	10292.1	10321.7
7.5°	8576.3	8603.4	8657.7	8808.0	9007.7	9251.8	9582.1	9956.8	10011.0	10257.6	10343.8
10°	8078.4	8105.5	8169.6	8324.9	8522.1	8827.8	9190.1	9683.2	9727.6	10151.6	10348.8
12.5°	7706.1	7730.8	7799.8	7952.6	8179.4	8465.4	8864.7	9387.4	9451.5	10011.0	10301.9
15°	7422.6	7469.5	7526.2	7651.9	7891.0	8167.1	8554.1	9116.2	9168.0	9863.1	10269.9
17.5°	7301.8	7324.0	7363.5	7479.3	7654.3	7925.5	8315.0	8904.2	8965.8	9759.6	10262.5
20°	7306.8	7328.9	7336.3	7400.4	7526.2	7760.3	8144.9	8736.6	8810.5	9668.4	10274.8
22.5°	7474.4	7476.9	7449.7	7427.6	7476.9	7671.6	8024.1	8610.8	8697.1	9628.9	10284.7
25°	7733.2	7777.6	7738.2	7634.6	7543.4	7637.1	7977.3	8541.8	8623.2	9572.2	10272.4
27.5°	8152.3	8159.7	8127.7	7987.1	7750.5	7681.5	7957.6	8490.0	8559.1	9530.3	10210.7
30°	8714.4	8692.2	8662.6	8507.3	8135.1	7851.6	7999.5	8443.2	8514.7	9468.7	10136.8
32.5°	9283.8	9352.8	9325.7	9143.3	8660.1	8181.9	8135.1	8438.3	8497.4	9421.9	10055.4
35°	9887.8	9919.8	10048.0	9954.3	9458.8	8716.8	8389.0	8514.7	8561.5	9424.3	9998.7
37.5°	10361.1	10447.4	10748.1	10829.5	10363.6	9424.3	8800.6	8731.6	8751.3	9545.1	10020.9
40°	10933.0	11080.9	11468.0	11800.8	11495.1	10343.8	9500.8	9133.4	9158.1	9836.0	10166.4
42.5°	11657.8	11761.3	12281.5	12732.6	12683.3	11559.2	10348.8	9791.6	9804.0	10415.3	10573.1
45°	12505.8	12653.7	13238.0	13915.9	14031.7	12934.7	11574.0	10787.6	10780.2	11315.1	11332.4
47.5°	13590.5	13681.7	14261.0	15000.5	15468.9	14662.8	13060.5	12217.4	12138.5	12626.6	12486.1
50°	14588.9	14731.8	15170.6	15979.2	17145.2	16686.7	15015.3	14071.2	13886.3	14342.3	14105.7
52.5°	15007.9	15158.3	15528.1	16531.4	18582.4	19304.7	17497.8	16282.4	15974.3	16324.3	16238.1
55°	14280.7	14475.5	14820.6	16040.8	19213.5	22324.6	20845.5	18838.8	18614.5	18464.1	18488.8
57.5°	12325.8	12510.7	12976.6	14322.6	18459.2	24516.1	25625.4	22124.9	21644.2	20951.5	21069.8
60°	9382.4	9498.3	9739.9	11231.3	16223.3	25085.5	31053.7	26278.7	25973.0	23429.0	23512.8
62.5°	6663.3	6794.0	6961.6	7706.1	11877.2	23480.7	35303.7	32079.2	30987.2	25995.2	25913.8
65°	5411.0	5322.3	5524.4	5872.0	6969.0	18197.9	36260.2	40130.5	38626.7	29374.9	28245.9
67.5°	4449.6	4356.0	4555.6	5174.4	5300.1	10563.2	32813.9	45356.6	45055.9	33050.5	30614.9
69°	3939.3	3890.0	4065.1	4770.1	5088.1	7501.5	28586.1	46083.8	46155.3	35217.4	30979.8
70°	3549.8	3569.6	3739.7	4565.5	4992.0	6185.1	24432.3	45080.5	45687.0	36299.6	30585.3
72.5°	2613.1	2655.0	2891.6	3781.6	4900.8	5248.3	14539.6	39376.1	40448.5	36363.7	27979.7
75°	1826.7	1807.0	2016.5	2847.3	4629.6	5201.5	8539.3	30452.2	31667.5	31430.9	23510.3
77.5°	1195.6	1227.7	1395.3	2011.6	3895.0	5162.1	5566.3	21604.7	22393.6	21020.5	13906.0
80°	843.1	840.6	934.3	1373.1	2889.2	4959.9	4558.1	13617.6	13417.9	8260.8	4124.2
82.5°	483.2	517.7	626.2	966.3	1932.7	4365.8	4193.3	6513.0	5946.0	2354.2	1392.8
85°	268.7	281.0	372.2	584.2	1129.0	3288.5	3660.8	2963.1	2795.5	983.6	599.0
87.5°	86.3	93.7	155.3	295.8	512.8	1553.1	2073.2	1368.2	1262.2	355.0	241.6
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: P456258
 CATALOG NUMBER: GALN-SA7C-730-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10279.8	10279.8	10279.8	10279.8	10279.8	10279.8	10279.8	10279.8	10279.8	10279.8	10279.8
2.5°	10294.5	10324.1	10245.2	10168.8	10099.8	10003.7	9917.4	9845.9	9796.6	9789.2	9764.5
5°	10329.1	10331.5	10181.1	9979.0	9781.8	9564.9	9340.5	9180.3	9029.9	8946.1	8904.2
7.5°	10353.7	10331.5	10060.4	9732.5	9352.8	8958.4	8564.0	8248.5	8004.4	7908.3	7945.2
10°	10343.8	10274.8	9877.9	9352.8	8800.6	8211.5	7644.5	7200.8	6794.0	6584.5	6589.4
12.5°	10289.6	10176.2	9606.8	8926.4	8115.3	7326.5	6458.7	5859.7	5388.9	5110.3	5024.0
15°	10242.8	10045.6	9288.8	8347.1	7338.8	6212.2	5154.7	4415.1	4020.7	3801.3	3798.8
17.5°	10193.5	9919.8	8941.2	7733.2	6446.4	4996.9	3887.6	3323.0	3138.2	3160.3	3123.4
20°	10141.7	9771.9	8578.8	7050.4	5359.3	3727.3	2911.4	2682.1	2733.9	2834.9	2849.7
22.5°	10082.5	9614.2	8189.3	6298.5	4215.4	2805.4	2361.6	2327.1	2460.2	2618.0	2640.2
25°	9991.3	9416.9	7698.7	5512.1	3251.6	2260.6	2068.3	2092.9	2223.6	2356.7	2371.5
27.5°	9863.1	9172.9	7203.2	4531.0	2443.0	1940.1	1890.8	1922.8	1986.9	2068.3	2088.0
30°	9690.6	8896.8	6633.8	3683.0	1957.3	1779.9	1760.1	1777.4	1814.4	1848.9	1858.7
32.5°	9518.0	8630.6	6059.4	2820.2	1745.3	1673.8	1654.1	1654.1	1654.1	1659.1	1661.5
35°	9357.8	8379.1	5443.1	2196.5	1634.4	1590.0	1562.9	1533.3	1528.4	1511.1	1511.1
37.5°	9269.0	8149.8	4787.4	1839.0	1553.1	1521.0	1484.0	1434.7	1407.6	1410.1	1405.1
40°	9286.3	7999.5	4190.8	1636.9	1486.5	1452.0	1395.3	1338.6	1321.3	1321.3	1316.4
42.5°	9481.0	7950.2	3618.9	1530.9	1422.4	1383.0	1311.5	1259.7	1249.8	1247.4	1252.3
45°	9929.7	8071.0	3106.1	1461.8	1368.2	1309.0	1237.5	1190.7	1180.8	1180.8	1178.4
47.5°	10804.8	8462.9	2738.8	1417.5	1328.7	1252.3	1178.4	1131.5	1114.3	1109.3	1109.3
50°	12165.6	9313.4	2465.2	1378.0	1279.4	1200.5	1124.1	1069.9	1042.8	1040.3	1037.8
52.5°	14056.4	10639.7	2359.2	1348.4	1225.2	1146.3	1062.5	1010.7	976.2	968.8	963.9
55°	16267.6	12491.0	2504.6	1326.3	1168.5	1084.7	998.4	944.2	912.1	897.3	894.9
57.5°	18829.0	14714.6	3056.8	1296.7	1116.7	1018.1	934.3	880.1	845.6	828.3	823.4
60°	21129.0	16999.8	4020.7	1279.4	1072.3	946.6	860.3	811.0	779.0	761.7	759.3
62.5°	23655.8	19179.0	5171.9	1326.3	1052.6	877.6	791.3	746.9	719.8	702.6	702.6
65°	26355.1	21360.7	5933.7	1484.0	1082.2	823.4	717.4	680.4	655.7	643.4	640.9
67.5°	28174.4	22115.0	4888.4	1646.7	1156.2	764.2	645.9	616.3	601.5	589.2	589.2
69°	27977.2	21161.0	3606.5	1688.6	1178.4	734.6	606.4	584.2	564.5	559.6	554.7
70°	27353.5	20073.9	3022.3	1661.5	1161.1	707.5	581.8	554.7	537.4	532.5	530.0
72.5°	24363.3	17409.0	2250.7	1444.6	988.5	613.8	515.2	490.6	475.8	468.4	468.4
75°	20241.5	14228.9	1757.7	1148.8	774.1	517.7	441.3	421.5	409.2	404.3	401.8
77.5°	11344.7	7945.2	1262.2	899.8	586.7	419.1	369.8	352.5	340.2	335.3	335.3
80°	3160.3	2270.4	742.0	594.1	399.4	318.0	293.4	281.0	263.8	251.4	258.8
82.5°	1190.7	983.6	424.0	357.4	253.9	212.0	204.6	194.7	187.4	170.1	170.1
85°	579.3	478.2	271.2	189.8	140.5	110.9	106.0	101.1	96.1	83.8	86.3
87.5°	199.7	212.0	118.3	69.0	41.9	27.1	22.2	12.3	12.3	12.3	12.3
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)