

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: P456693

Luminaire Tested: **GALN-SA8A-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456693
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-SA8A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 30827 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

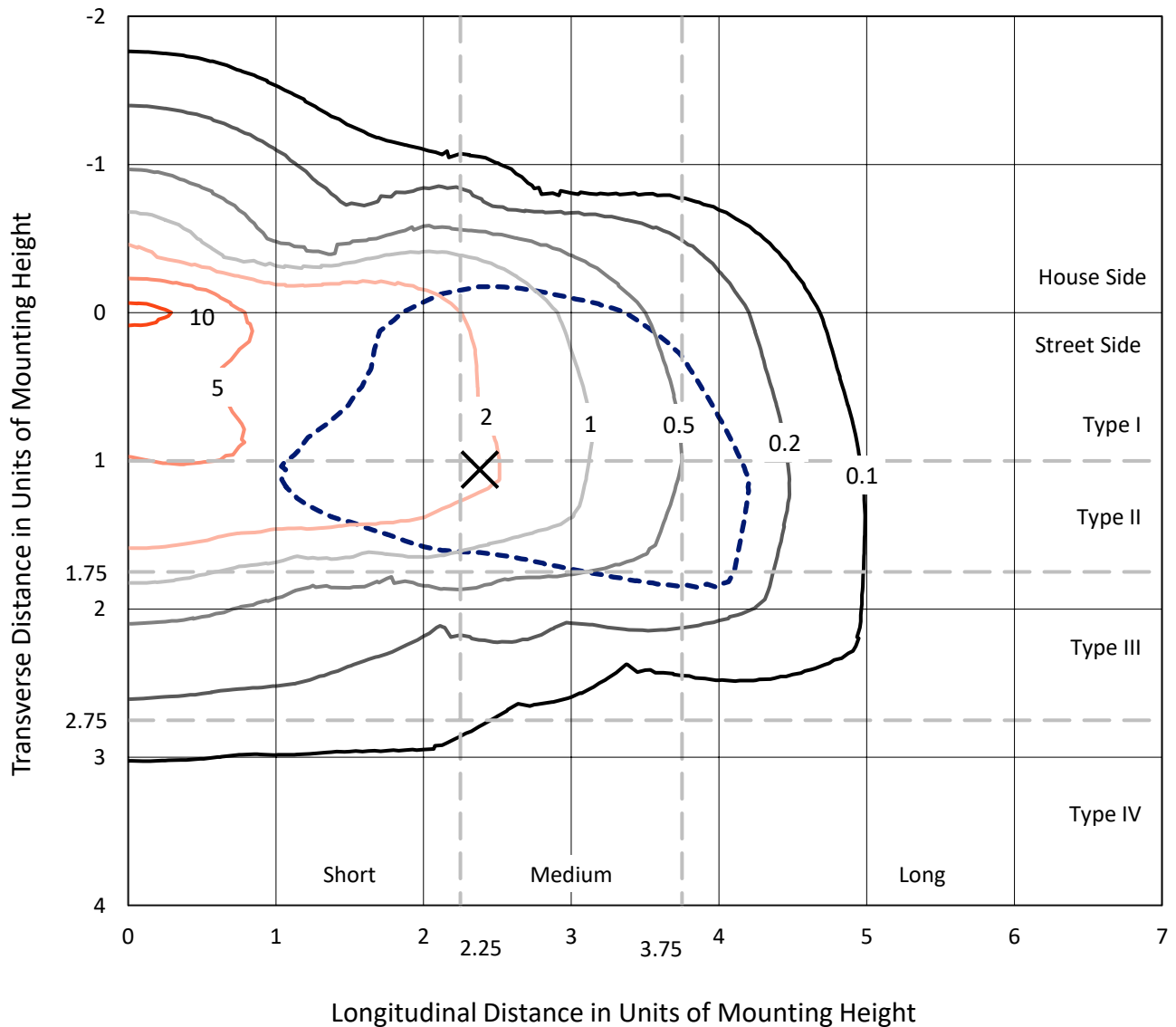
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456693
 CATALOG NUMBER: GALN-SA8A-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

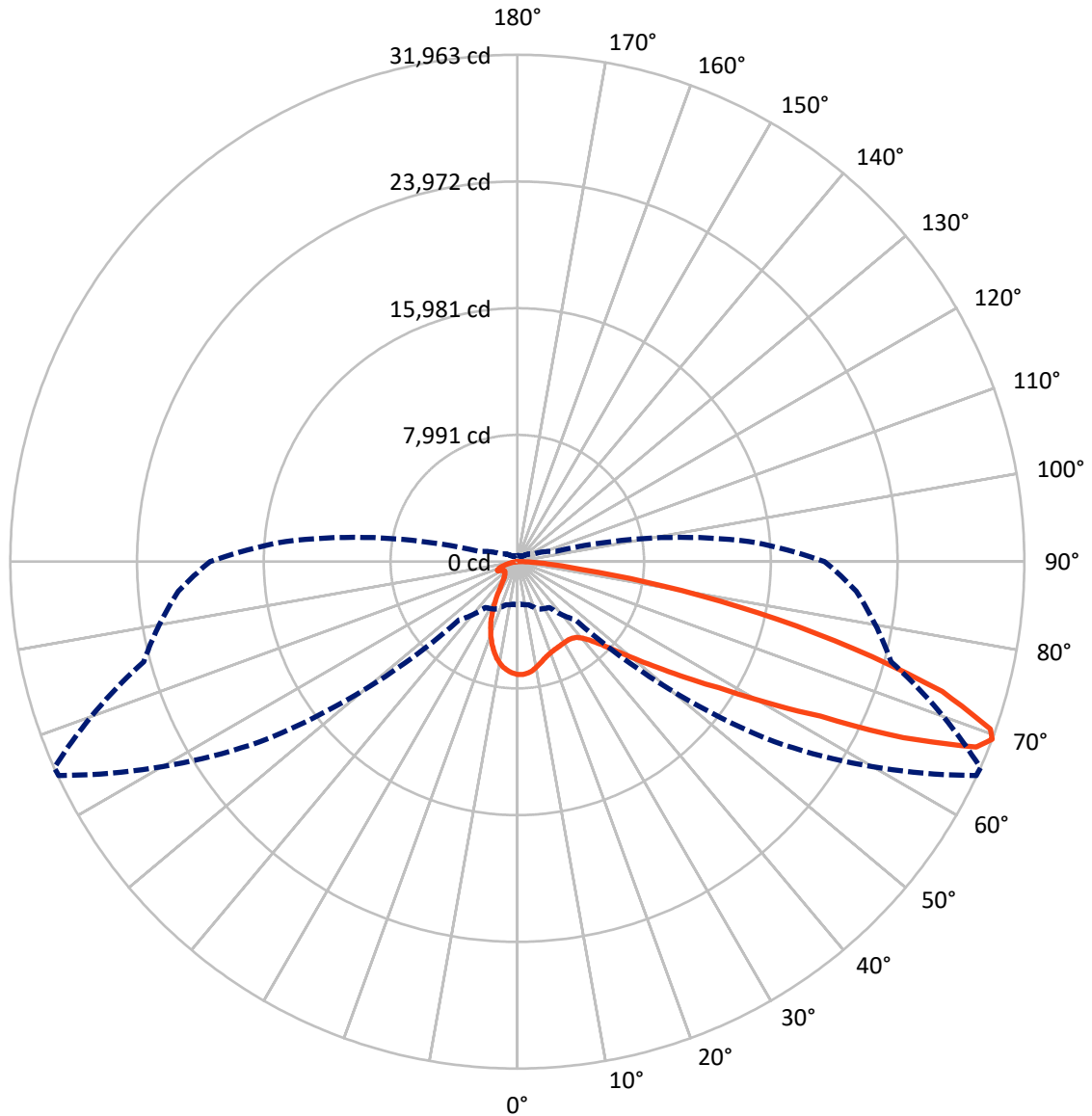
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P456693
CATALOG NUMBER: GALN-SA8A-727-U-SL2

Luminous Intensity Polar Plot



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



REPORT NUMBER: P456693

CATALOG NUMBER: GALN-SA8A-727-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5797.4	0.0	5797.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	25029.6	0.0	25029.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	30827.0	0.0	30827.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.2	2.0
10°-20°	1466.3	4.8
20°-30°	1996.2	6.5
30°-40°	2682.4	8.7
40°-50°	4005.3	13.0
50°-60°	6371.1	20.7
60°-70°	7836.1	25.4
70°-80°	5098.5	16.5
80°-90°	752.9	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°	30827.0	100.0
0°-180°	30827.0	100.0



REPORT NUMBER: P456693

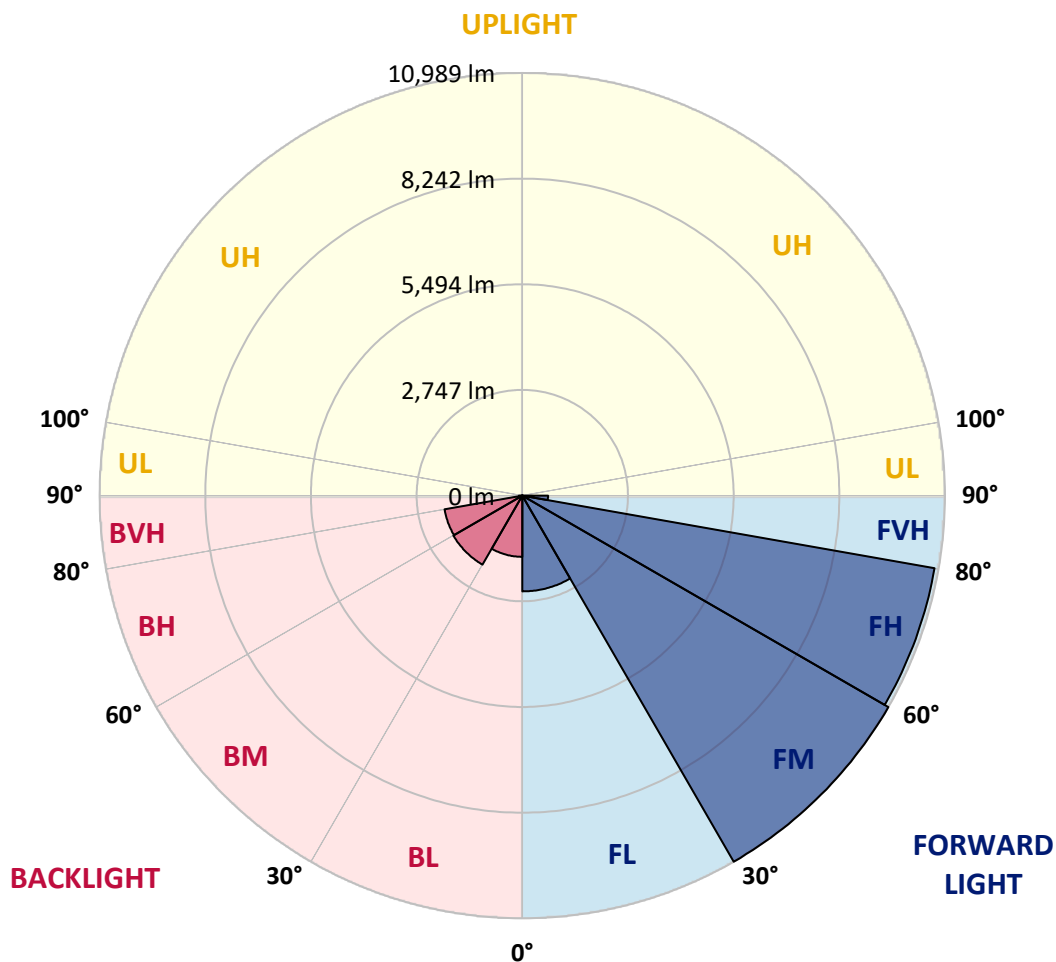
CATALOG NUMBER: GALN-SA8A-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2489.2	8.1			
FM	(30°-60°)	10988.9	35.6			
FH	(60°-80°)	10882.1	35.3			G4/12000
FVH	(80°-90°)	669.4	2.2			G4/750
BL	(0°-30°)	1591.4	5.2	B3/2500		
BM	(30°-60°)	2069.9	6.7	B2/2500		
BH	(60°-80°)	2052.5	6.7	B3/2500		G3/2500
BVH	(80°-90°)	83.5	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-G4

Type III Medium





REPORT NUMBER: P456693

CATALOG NUMBER: GALN-SA8A-727-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7118.8	7118.8	7118.8	7118.8	7118.8	7118.8	7118.8	7118.8	7118.8	7118.8	7118.8
2.5°	6869.6	6896.9	6927.6	6961.8	7026.6	7062.5	7088.1	7117.1	7120.5	7135.9	7123.9
5°	6362.5	6395.0	6441.1	6505.9	6603.3	6755.2	6912.2	7040.3	7055.6	7127.3	7147.8
7.5°	5939.2	5957.9	5995.5	6099.6	6237.9	6406.9	6635.7	6895.2	6932.7	7103.4	7163.2
10°	5594.3	5613.1	5657.5	5765.0	5901.6	6113.3	6364.3	6705.7	6736.4	7030.0	7166.6
12.5°	5336.5	5353.6	5401.4	5507.3	5664.3	5862.3	6138.9	6500.8	6545.2	6932.7	7134.2
15°	5140.2	5172.7	5211.9	5299.0	5464.6	5655.8	5923.8	6313.0	6348.9	6830.3	7112.0
17.5°	5056.6	5071.9	5099.3	5179.5	5300.7	5488.5	5758.2	6166.2	6208.9	6758.6	7106.9
20°	5060.0	5075.4	5080.5	5124.9	5211.9	5374.1	5640.4	6050.1	6101.4	6695.4	7115.4
22.5°	5176.1	5177.8	5159.0	5143.6	5177.8	5312.6	5556.8	5963.1	6022.8	6668.1	7122.2
25°	5355.3	5386.1	5358.7	5287.0	5223.9	5288.7	5524.3	5915.3	5971.6	6628.9	7113.7
27.5°	5645.5	5650.7	5628.5	5531.2	5367.3	5319.5	5510.7	5879.4	5927.2	6599.8	7071.0
30°	6034.8	6019.4	5998.9	5891.4	5633.6	5437.3	5539.7	5847.0	5896.5	6557.2	7019.8
32.5°	6429.1	6476.9	6458.1	6331.8	5997.2	5666.0	5633.6	5843.6	5884.5	6524.7	6963.5
35°	6847.4	6869.6	6958.3	6893.5	6550.3	6036.5	5809.4	5896.5	5928.9	6526.4	6924.2
37.5°	7175.1	7234.9	7443.2	7499.5	7176.9	6526.4	6094.5	6046.7	6060.4	6610.1	6939.6
40°	7571.2	7673.6	7941.7	8172.1	7960.4	7163.2	6579.4	6325.0	6342.1	6811.5	7040.3
42.5°	8073.1	8144.8	8505.0	8817.4	8783.3	8004.8	7166.6	6780.8	6789.3	7212.7	7322.0
45°	8660.4	8762.8	9167.4	9636.9	9717.1	8957.4	8015.1	7470.5	7465.4	7835.8	7847.8
47.5°	9411.5	9474.7	9875.9	10388.0	10712.4	10154.1	9044.5	8460.6	8406.0	8744.0	8646.7
50°	10102.9	10201.9	10505.8	11065.7	11873.2	11555.7	10398.2	9744.4	9616.4	9932.2	9768.3
52.5°	10393.1	10497.3	10753.3	11448.1	12868.5	13368.7	12117.3	11275.7	11062.3	11304.7	11245.0
55°	9889.5	10024.4	10263.4	11108.4	13305.5	15459.9	14435.7	13046.0	12890.7	12786.5	12803.6
57.5°	8535.7	8663.8	8986.4	9918.5	12783.1	16977.6	17745.8	15321.7	14988.8	14509.1	14591.0
60°	6497.4	6577.6	6744.9	7777.8	11234.7	17371.9	21505.0	18198.2	17986.5	16224.7	16282.8
62.5°	4614.4	4704.9	4821.0	5336.5	8225.0	16260.6	24448.1	22215.1	21458.9	18001.9	17945.5
65°	3747.2	3685.7	3825.7	4066.4	4826.1	12602.2	25110.5	27790.7	26749.3	20342.4	19560.5
67.5°	3081.4	3016.5	3154.8	3583.3	3670.4	7315.1	22723.9	31409.8	31201.6	22887.7	21201.1
69°	2728.0	2693.9	2815.1	3303.3	3523.6	5194.9	19796.1	31913.4	31962.9	24388.3	21453.7
70°	2458.3	2472.0	2589.7	3161.6	3457.0	4283.2	16919.6	31218.6	31638.6	25137.8	21180.6
72.5°	1809.6	1838.6	2002.5	2618.8	3393.8	3634.5	10068.8	27268.3	28010.9	25182.2	19376.1
75°	1265.0	1251.3	1396.4	1971.8	3206.0	3602.1	5913.6	21088.4	21930.0	21766.1	16281.1
77.5°	828.0	850.2	966.2	1393.0	2697.3	3574.8	3854.7	14961.5	15507.7	14556.9	9630.0
80°	583.8	582.1	647.0	950.9	2000.8	3434.8	3156.5	9430.3	9292.0	5720.7	2856.1
82.5°	334.6	358.5	433.6	669.2	1338.4	3023.4	2903.9	4510.3	4117.6	1630.3	964.5
85°	186.1	194.6	257.8	404.6	781.9	2277.3	2535.1	2052.0	1935.9	681.2	414.8
87.5°	59.8	64.9	107.6	204.9	355.1	1075.5	1435.7	947.5	874.1	245.8	167.3
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: P456693
 CATALOG NUMBER: GALN-SA8A-727-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7118.8	7118.8	7118.8	7118.8	7118.8	7118.8	7118.8	7118.8	7118.8	7118.8	7118.8
2.5°	7129.1	7149.5	7094.9	7042.0	6994.2	6927.6	6867.9	6818.4	6784.2	6779.1	6762.0
5°	7153.0	7154.7	7050.5	6910.5	6774.0	6623.7	6468.4	6357.4	6253.3	6195.2	6166.2
7.5°	7170.0	7154.7	6966.9	6739.8	6476.9	6203.8	5930.6	5712.1	5543.1	5476.5	5502.1
10°	7163.2	7115.4	6840.5	6476.9	6094.5	5686.5	5293.9	4986.6	4704.9	4559.8	4563.2
12.5°	7125.6	7047.1	6652.8	6181.6	5619.9	5073.6	4472.7	4057.9	3731.8	3538.9	3479.2
15°	7093.2	6956.6	6432.5	5780.4	5082.2	4302.0	3569.6	3057.5	2784.4	2632.4	2630.7
17.5°	7059.1	6869.6	6191.8	5355.3	4464.2	3460.4	2692.2	2301.2	2173.2	2188.6	2163.0
20°	7023.2	6767.1	5940.9	4882.4	3711.3	2581.2	2016.1	1857.4	1893.2	1963.2	1973.5
22.5°	6982.2	6657.9	5671.1	4361.8	2919.2	1942.7	1635.4	1611.5	1703.7	1813.0	1828.4
25°	6919.1	6521.3	5331.4	3817.2	2251.7	1565.5	1432.3	1449.4	1539.8	1632.0	1642.3
27.5°	6830.3	6352.3	4988.3	3137.7	1691.8	1343.5	1309.4	1331.6	1376.0	1432.3	1446.0
30°	6710.8	6161.1	4593.9	2550.5	1355.5	1232.6	1218.9	1230.9	1256.5	1280.4	1287.2
32.5°	6591.3	5976.7	4196.2	1953.0	1208.7	1159.2	1145.5	1145.5	1145.5	1148.9	1150.6
35°	6480.3	5802.6	3769.4	1521.1	1131.8	1101.1	1082.3	1061.8	1058.4	1046.5	1046.5
37.5°	6418.9	5643.8	3315.3	1273.5	1075.5	1053.3	1027.7	993.6	974.8	976.5	973.1
40°	6430.8	5539.7	2902.2	1133.5	1029.4	1005.5	966.2	927.0	915.0	915.0	911.6
42.5°	6565.7	5505.6	2506.1	1060.1	985.0	957.7	908.2	872.4	865.5	863.8	867.2
45°	6876.4	5589.2	2151.0	1012.3	947.5	906.5	857.0	824.6	817.7	817.7	816.0
47.5°	7482.4	5860.6	1896.6	981.6	920.2	867.2	816.0	783.6	771.6	768.2	768.2
50°	8424.8	6449.6	1707.1	954.3	886.0	831.4	778.5	740.9	722.1	720.4	718.7
52.5°	9734.2	7368.1	1633.7	933.8	848.5	793.8	735.8	699.9	676.0	670.9	667.5
55°	11265.5	8650.1	1734.5	918.4	809.2	751.1	691.4	653.8	631.6	621.4	619.7
57.5°	13039.2	10190.0	2116.9	898.0	773.3	705.1	647.0	609.5	585.6	573.6	570.2
60°	14632.0	11772.5	2784.4	886.0	742.6	655.5	595.8	561.7	539.5	527.5	525.8
62.5°	16381.8	13281.6	3581.6	918.4	729.0	607.7	548.0	517.3	498.5	486.5	486.5
65°	18251.1	14792.4	4109.1	1027.7	749.4	570.2	496.8	471.2	454.1	445.6	443.9
67.5°	19511.0	15314.8	3385.3	1140.4	800.7	529.2	447.3	426.8	416.5	408.0	408.0
69°	19374.4	14654.2	2497.6	1169.4	816.0	508.7	420.0	404.6	390.9	387.5	384.1
70°	18942.5	13901.3	2093.0	1150.6	804.1	490.0	402.9	384.1	372.2	368.7	367.0
72.5°	16871.8	12055.9	1558.6	1000.4	684.6	425.1	356.8	339.7	329.5	324.4	324.4
75°	14017.4	9853.7	1217.2	795.5	536.0	358.5	305.6	291.9	283.4	280.0	278.3
77.5°	7856.3	5502.1	874.1	623.1	406.3	290.2	256.1	244.1	235.6	232.2	232.2
80°	2188.6	1572.3	513.9	411.4	276.6	220.2	203.2	194.6	182.7	174.1	179.3
82.5°	824.6	681.2	293.6	247.5	175.8	146.8	141.7	134.9	129.7	117.8	117.8
85°	401.2	331.2	187.8	131.5	97.3	76.8	73.4	70.0	66.6	58.0	59.8
87.5°	138.3	146.8	81.9	47.8	29.0	18.8	15.4	8.5	8.5	8.5	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)