

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: P455533

Luminaire Tested: **GALN-SA6D-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455533
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-SA6D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA 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: 38295 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

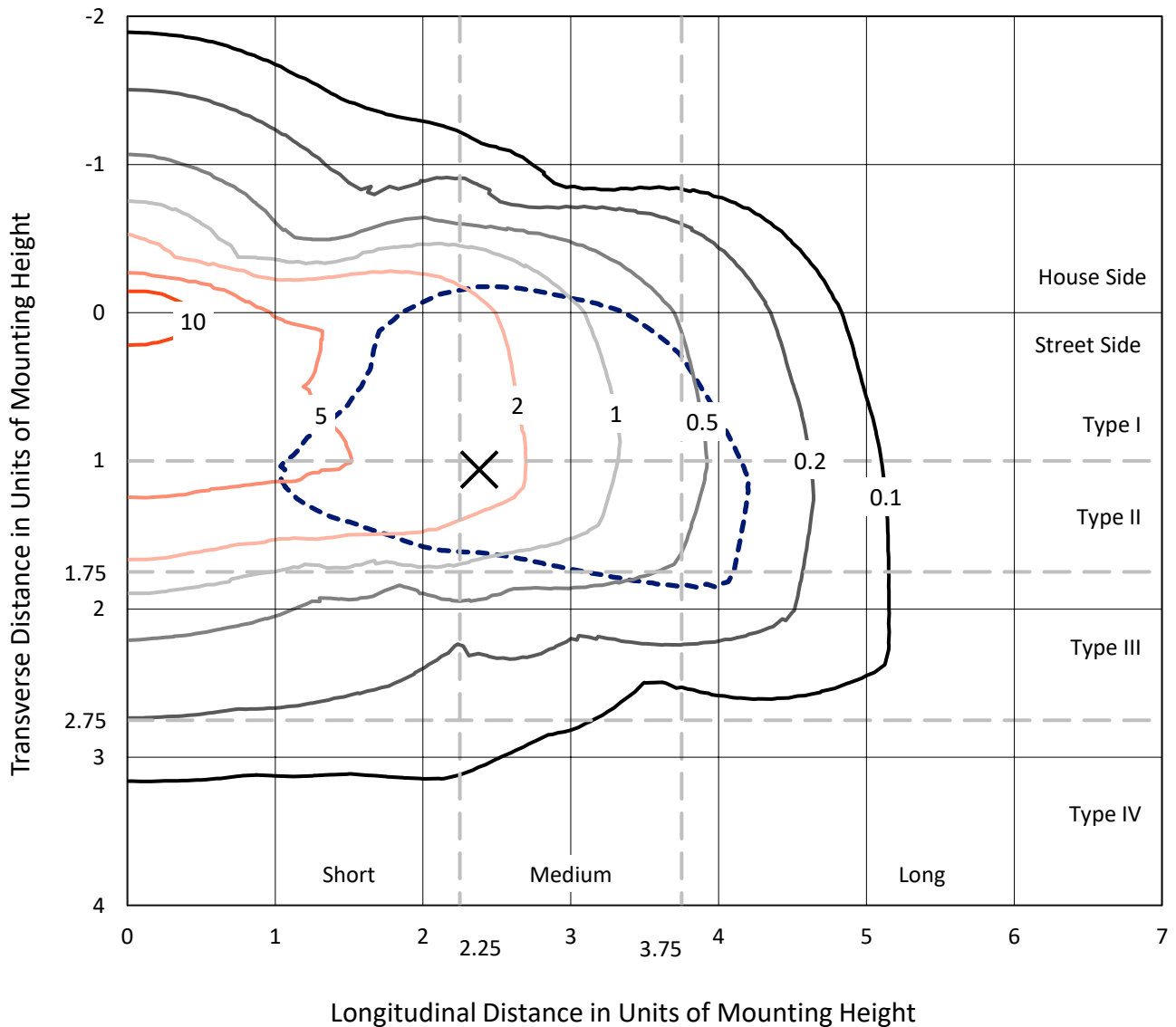
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455533
 CATALOG NUMBER: GALN-SA6D-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

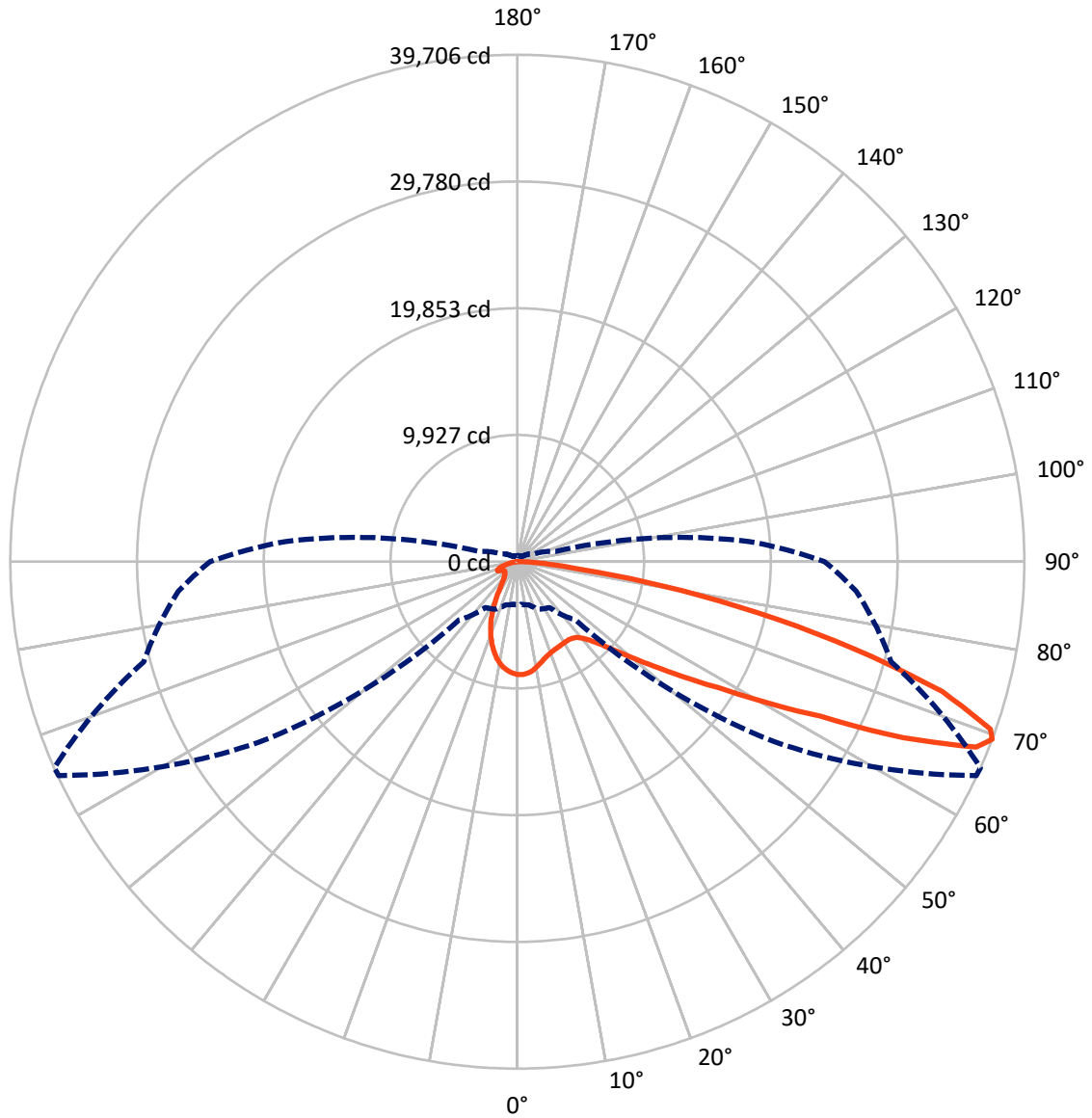
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P455533
CATALOG NUMBER: GALN-SA6D-727-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P455533

CATALOG NUMBER: GALN-SA6D-727-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7201.8	0.0	7201.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31093.2	0.0	31093.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	38295.0	0.0	38295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.0	2.0
10°-20°	1821.5	4.8
20°-30°	2479.8	6.5
30°-40°	3332.3	8.7
40°-50°	4975.6	13.0
50°-60°	7914.5	20.7
60°-70°	9734.4	25.4
70°-80°	6333.7	16.5
80°-90°	935.3	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°	38295.0	100.0
0°-180°	38295.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455533

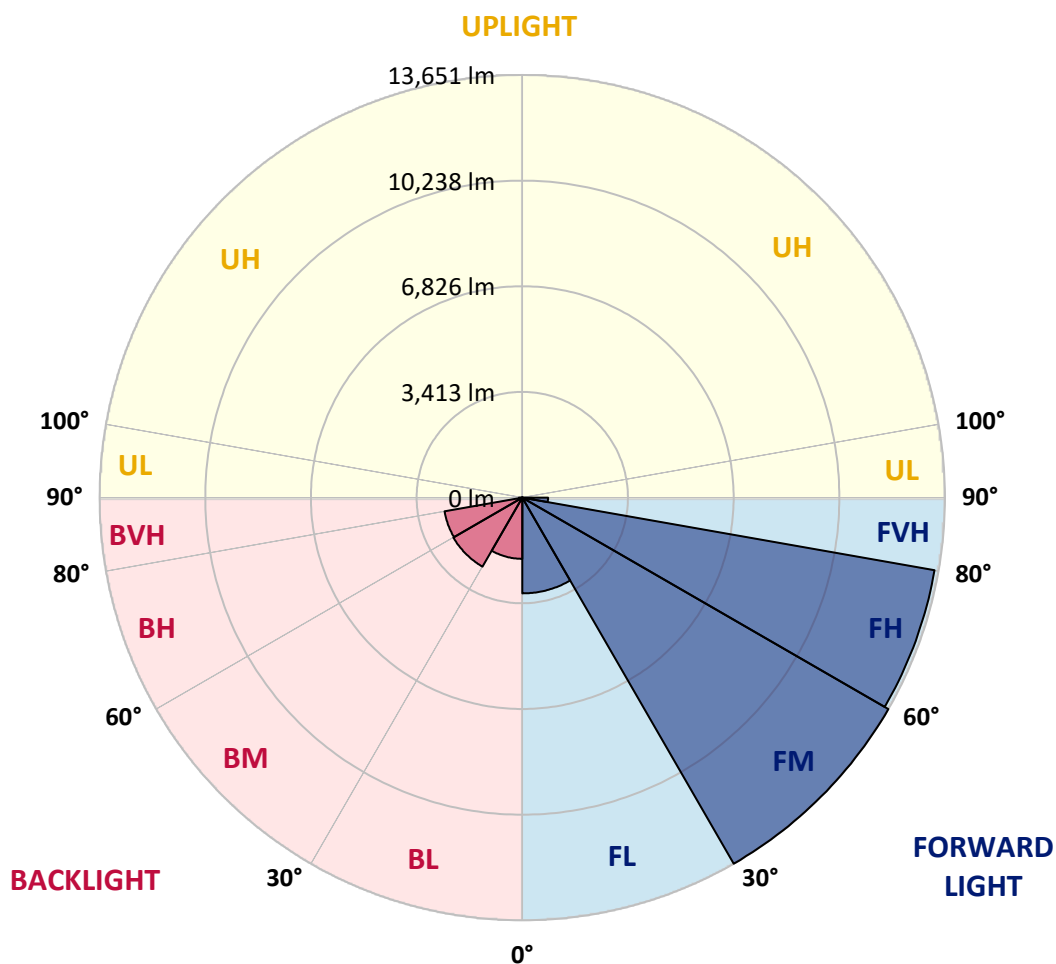
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3092.3	8.1			
FM	(30°-60°)	13651.0	35.6			
FH	(60°-80°)	13518.3	35.3			G5
FVH	(80°-90°)	831.5	2.2			G5
BL	(0°-30°)	1976.9	5.2	B3/2500		
BM	(30°-60°)	2571.4	6.7	B3/5000		
BH	(60°-80°)	2549.8	6.7	B4/5000		G4/5000
BVH	(80°-90°)	103.8	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: P455533

CATALOG NUMBER: GALN-SA6D-727-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8843.4	8843.4	8843.4	8843.4	8843.4	8843.4	8843.4	8843.4	8843.4	8843.4	8843.4
2.5°	8533.8	8567.7	8605.9	8648.3	8728.9	8773.4	8805.2	8841.3	8845.5	8864.6	8849.7
5°	7903.9	7944.2	8001.5	8082.0	8202.9	8391.7	8586.8	8745.8	8764.9	8854.0	8879.4
7.5°	7378.0	7401.3	7447.9	7577.3	7749.1	7959.0	8243.2	8565.6	8612.2	8824.3	8898.5
10°	6949.6	6972.9	7028.0	7161.7	7331.3	7594.3	7906.0	8330.2	8368.3	8733.1	8902.8
12.5°	6629.4	6650.6	6709.9	6841.4	7036.5	7282.5	7626.1	8075.7	8130.8	8612.2	8862.5
15°	6385.5	6425.8	6474.5	6582.7	6788.4	7025.9	7358.9	7842.4	7886.9	8485.0	8834.9
17.5°	6281.6	6300.6	6334.6	6434.2	6584.8	6818.1	7153.2	7660.0	7713.0	8395.9	8828.5
20°	6285.8	6304.9	6311.2	6366.4	6474.5	6676.0	7006.8	7515.8	7579.4	8317.4	8839.1
22.5°	6430.0	6432.1	6408.8	6389.7	6432.1	6599.7	6902.9	7407.7	7481.9	8283.5	8847.6
25°	6652.7	6690.9	6656.9	6567.9	6489.4	6570.0	6862.6	7348.3	7418.3	8234.7	8837.0
27.5°	7013.2	7019.6	6992.0	6871.1	6667.5	6608.1	6845.7	7303.7	7363.1	8198.7	8784.0
30°	7496.7	7477.6	7452.2	7318.6	6998.4	6754.5	6881.7	7263.4	7324.9	8145.7	8720.4
32.5°	7986.6	8046.0	8022.7	7865.7	7450.1	7038.7	6998.4	7259.2	7310.1	8105.4	8650.4
35°	8506.2	8533.8	8644.0	8563.4	8137.2	7498.8	7216.8	7324.9	7365.2	8107.5	8601.6
37.5°	8913.4	8987.6	9246.3	9316.3	8915.5	8107.5	7571.0	7511.6	7528.5	8211.4	8620.7
40°	9405.4	9532.6	9865.6	10151.9	9888.9	8898.5	8173.2	7857.2	7878.5	8461.7	8745.8
42.5°	10028.9	10117.9	10565.4	10953.5	10911.1	9944.0	8902.8	8423.5	8434.1	8960.0	9095.7
45°	10758.4	10885.6	11388.2	11971.4	12071.1	11127.4	9956.8	9280.2	9273.9	9734.1	9748.9
47.5°	11691.5	11770.0	12268.3	12904.5	13307.5	12614.0	11235.5	10510.3	10442.4	10862.3	10741.4
50°	12550.4	12673.4	13050.9	13746.5	14749.6	14355.1	12917.3	12105.0	11946.0	12338.3	12134.7
52.5°	12910.9	13040.3	13358.4	14221.5	15985.9	16607.3	15052.8	14007.3	13742.2	14043.4	13969.1
55°	12285.3	12452.8	12749.7	13799.5	16528.8	19205.2	17932.8	16206.5	16013.5	15884.2	15905.4
57.5°	10603.6	10762.6	11163.4	12321.4	15879.9	21090.5	22044.8	19033.4	18619.9	18024.0	18125.7
60°	8071.4	8171.1	8378.9	9662.0	13956.4	21580.4	26714.6	22606.8	22343.8	20155.3	20227.4
62.5°	5732.3	5844.7	5988.9	6629.4	10217.6	20199.8	30370.8	27596.9	26657.4	22362.9	22293.0
65°	4655.0	4578.6	4752.5	5051.5	5995.3	15655.1	31193.6	34523.1	33229.5	25270.4	24299.1
67.5°	3827.9	3747.3	3919.1	4451.4	4559.5	9087.3	28228.8	39019.0	38760.3	28432.4	26337.2
69°	3388.9	3346.5	3497.1	4103.6	4377.2	6453.3	24591.8	39644.6	39706.1	30296.5	26651.0
70°	3053.8	3070.8	3217.1	3927.6	4294.4	5320.9	21018.4	38781.5	39303.2	31227.5	26311.7
72.5°	2248.0	2284.0	2487.6	3253.2	4216.0	4515.0	12508.0	33874.2	34796.7	31282.7	24070.1
75°	1571.4	1554.5	1734.7	2449.4	3982.7	4474.7	7346.2	26197.2	27242.7	27039.1	20225.3
77.5°	1028.5	1056.1	1200.3	1730.5	3350.7	4440.8	4788.6	18585.9	19264.6	18083.3	11963.0
80°	725.3	723.2	803.8	1181.2	2485.5	4266.9	3921.2	11714.8	11543.0	7106.5	3548.0
82.5°	415.7	445.4	538.7	831.3	1662.6	3755.8	3607.3	5602.9	5115.2	2025.3	1198.2
85°	231.2	241.8	320.2	502.6	971.3	2829.0	3149.3	2549.1	2404.9	846.2	515.3
87.5°	74.2	80.6	133.6	254.5	441.1	1336.1	1783.5	1177.0	1085.8	305.4	207.8
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: P455533

CATALOG NUMBER: GALN-SA6D-727-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8843.4	8843.4	8843.4	8843.4	8843.4	8843.4	8843.4	8843.4	8843.4	8843.4	8843.4
2.5°	8856.1	8881.6	8813.7	8747.9	8688.6	8605.9	8531.6	8470.1	8427.7	8421.4	8400.2
5°	8885.8	8887.9	8758.6	8584.7	8415.0	8228.4	8035.4	7897.5	7768.2	7696.1	7660.0
7.5°	8907.0	8887.9	8654.6	8372.6	8046.0	7706.7	7367.4	7095.9	6886.0	6803.3	6835.1
10°	8898.5	8839.1	8497.7	8046.0	7571.0	7064.1	6576.3	6194.6	5844.7	5664.4	5668.7
12.5°	8851.9	8754.3	8264.4	7679.1	6981.4	6302.8	5556.3	5040.9	4635.9	4396.2	4322.0
15°	8811.6	8641.9	7990.9	7180.7	6313.4	5344.2	4434.4	3798.2	3458.9	3270.1	3268.0
17.5°	8769.2	8533.8	7691.8	6652.7	5545.7	4298.7	3344.4	2858.7	2699.7	2718.8	2686.9
20°	8724.6	8406.5	7380.1	6065.2	4610.4	3206.5	2504.6	2307.3	2351.9	2438.8	2451.5
22.5°	8673.7	8270.8	7045.0	5418.4	3626.4	2413.4	2031.6	2002.0	2116.5	2252.2	2271.3
25°	8595.3	8101.1	6623.0	4741.9	2797.2	1944.7	1779.3	1800.5	1912.9	2027.4	2040.1
27.5°	8485.0	7891.2	6196.7	3897.9	2101.6	1669.0	1626.6	1654.2	1709.3	1779.3	1796.2
30°	8336.5	7653.7	5706.8	3168.3	1683.8	1531.2	1514.2	1529.0	1560.8	1590.5	1599.0
32.5°	8188.1	7424.6	5212.7	2426.1	1501.5	1440.0	1423.0	1423.0	1423.0	1427.2	1429.4
35°	8050.2	7208.3	4682.5	1889.6	1406.0	1367.9	1344.5	1319.1	1314.8	1300.0	1300.0
37.5°	7973.9	7011.1	4118.4	1582.1	1336.1	1308.5	1276.7	1234.3	1210.9	1213.0	1208.8
40°	7988.7	6881.7	3605.2	1408.2	1278.8	1249.1	1200.3	1151.5	1136.7	1136.7	1132.5
42.5°	8156.3	6839.3	3113.2	1317.0	1223.7	1189.7	1128.2	1083.7	1075.2	1073.1	1077.3
45°	8542.2	6943.2	2672.1	1257.6	1177.0	1126.1	1064.6	1024.3	1015.8	1015.8	1013.7
47.5°	9295.1	7280.4	2356.1	1219.4	1143.1	1077.3	1013.7	973.4	958.6	954.3	954.3
50°	10465.7	8012.1	2120.7	1185.5	1100.7	1032.8	967.0	920.4	897.1	894.9	892.8
52.5°	12092.3	9153.0	2029.5	1160.0	1054.0	986.1	914.0	869.5	839.8	833.4	829.2
55°	13994.6	10745.7	2154.6	1140.9	1005.2	933.1	858.9	812.2	784.7	771.9	769.8
57.5°	16198.0	12658.5	2629.7	1115.5	960.7	875.9	803.8	757.1	727.4	712.6	708.3
60°	18176.6	14624.4	3458.9	1100.7	922.5	814.4	740.1	697.7	670.1	655.3	653.2
62.5°	20350.4	16499.2	4449.3	1140.9	905.5	755.0	680.7	642.6	619.2	604.4	604.4
65°	22672.6	18376.0	5104.6	1276.7	931.0	708.3	617.1	585.3	564.1	553.5	551.4
67.5°	24237.6	19024.9	4205.4	1416.6	994.6	657.4	555.6	530.2	517.5	506.9	506.9
69°	24068.0	18204.2	3102.6	1452.7	1013.7	632.0	521.7	502.6	485.6	481.4	477.2
70°	23531.4	17269.0	2600.0	1429.4	998.9	608.6	500.5	477.2	462.3	458.1	456.0
72.5°	20959.0	14976.5	1936.2	1242.7	850.4	528.1	443.2	422.0	409.3	402.9	402.9
75°	17413.2	12240.8	1512.1	988.3	665.9	445.4	379.6	362.6	352.0	347.8	345.7
77.5°	9759.5	6835.1	1085.8	774.1	504.7	360.5	318.1	303.3	292.7	288.4	288.4
80°	2718.8	1953.2	638.3	511.1	343.6	273.6	252.4	241.8	226.9	216.3	222.7
82.5°	1024.3	846.2	364.8	307.5	218.4	182.4	176.0	167.5	161.2	146.3	146.3
85°	498.4	411.4	233.3	163.3	120.9	95.4	91.2	86.9	82.7	72.1	74.2
87.5°	171.8	182.4	101.8	59.4	36.1	23.3	19.1	10.6	10.6	10.6	10.6
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)