

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: P459133

Luminaire Tested: **GALN-SA6B-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30767 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

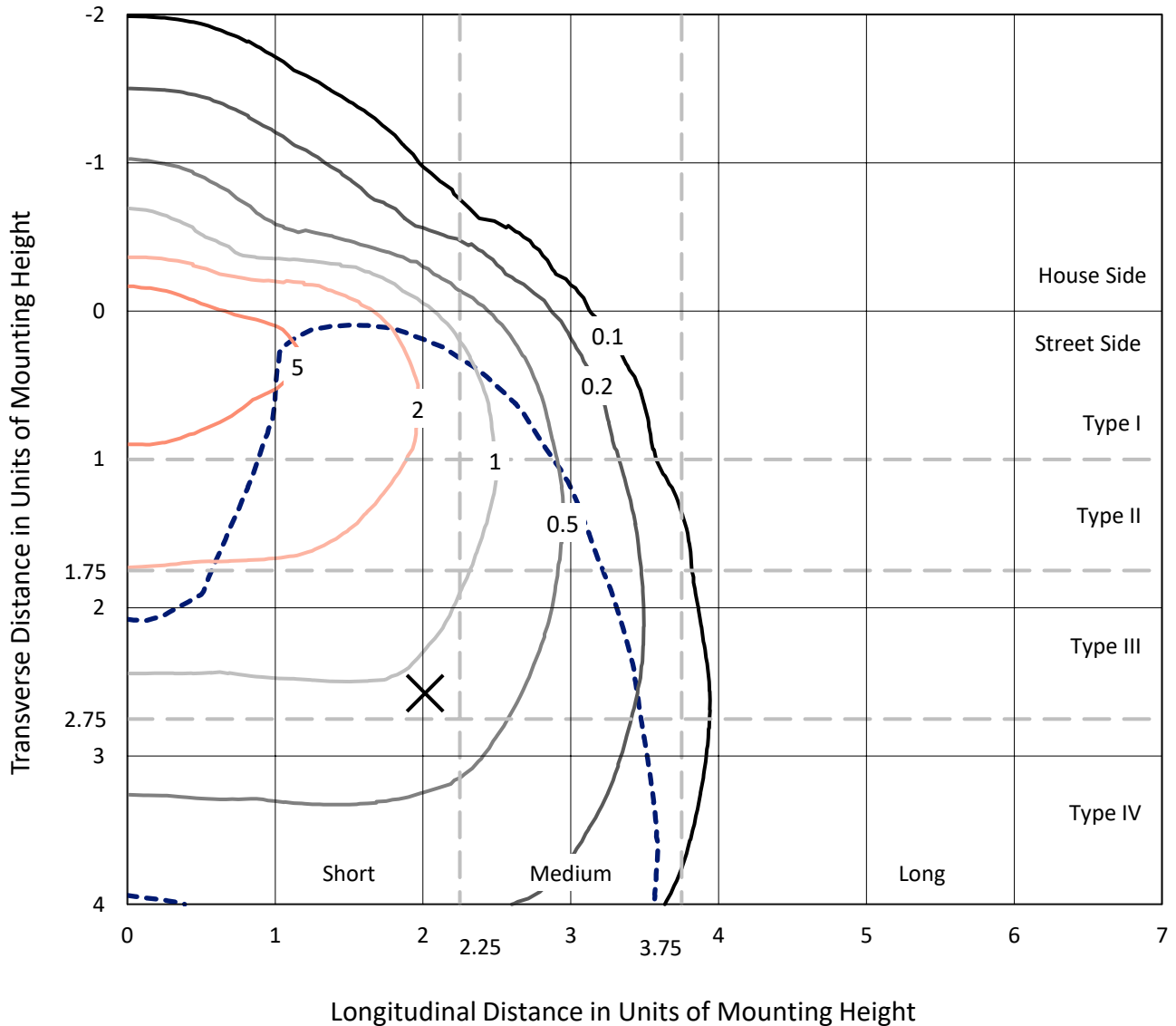
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459133
 CATALOG NUMBER: GALN-SA6B-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

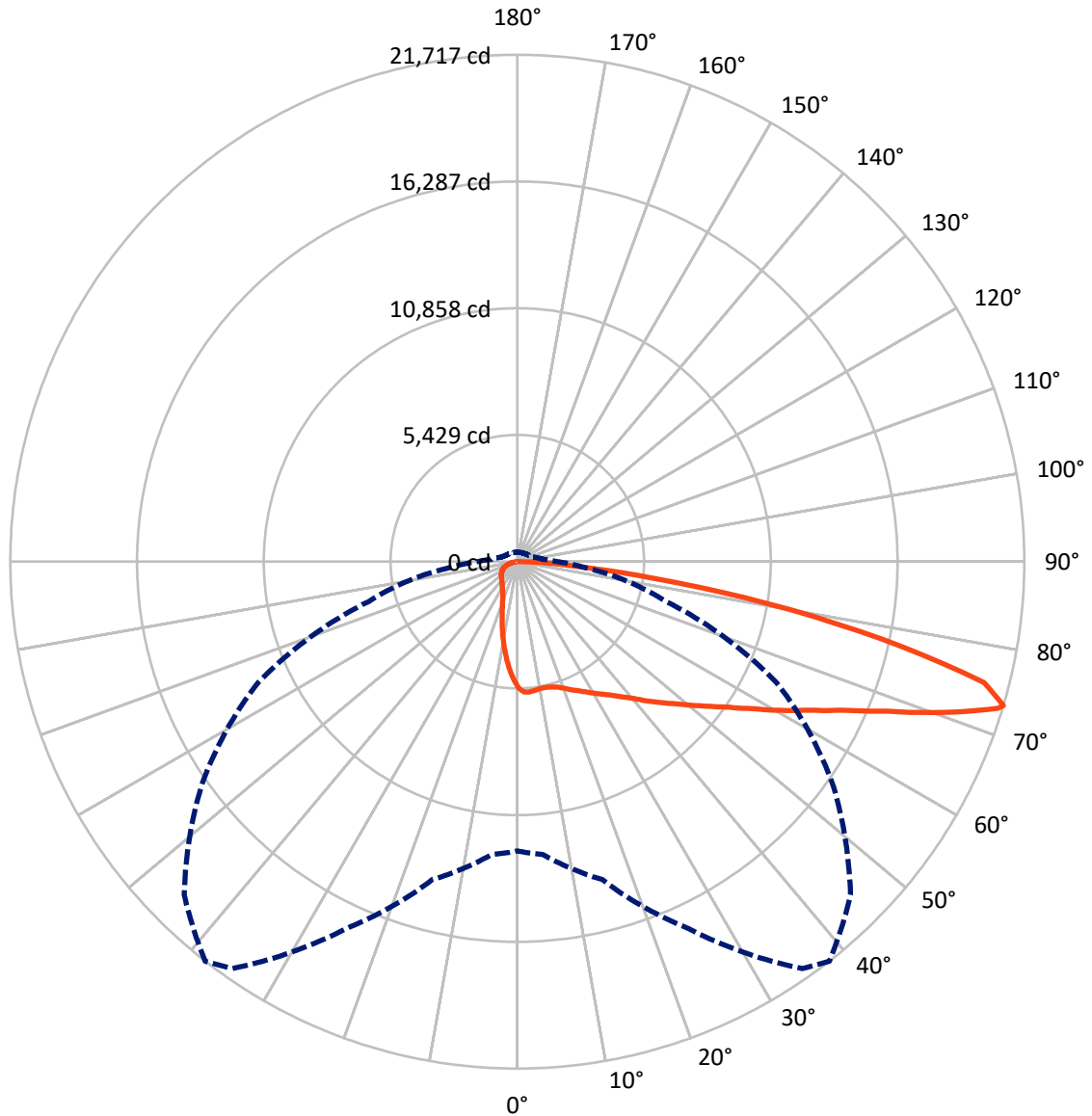
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P459133
CATALOG NUMBER: GALN-SA6B-735-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P459133

CATALOG NUMBER: GALN-SA6B-735-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4136.0	0.0	4136.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	26631.0	0.0	26631.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	30767.0	0.0	30767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.8	1.5
10°-20°	1209.9	3.9
20°-30°	1884.0	6.1
30°-40°	2763.5	9.0
40°-50°	4099.3	13.3
50°-60°	5807.9	18.9
60°-70°	7367.4	23.9
70°-80°	6132.8	19.9
80°-90°	1030.4	3.3
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°	30767.0	100.0
0°-180°	30767.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459133

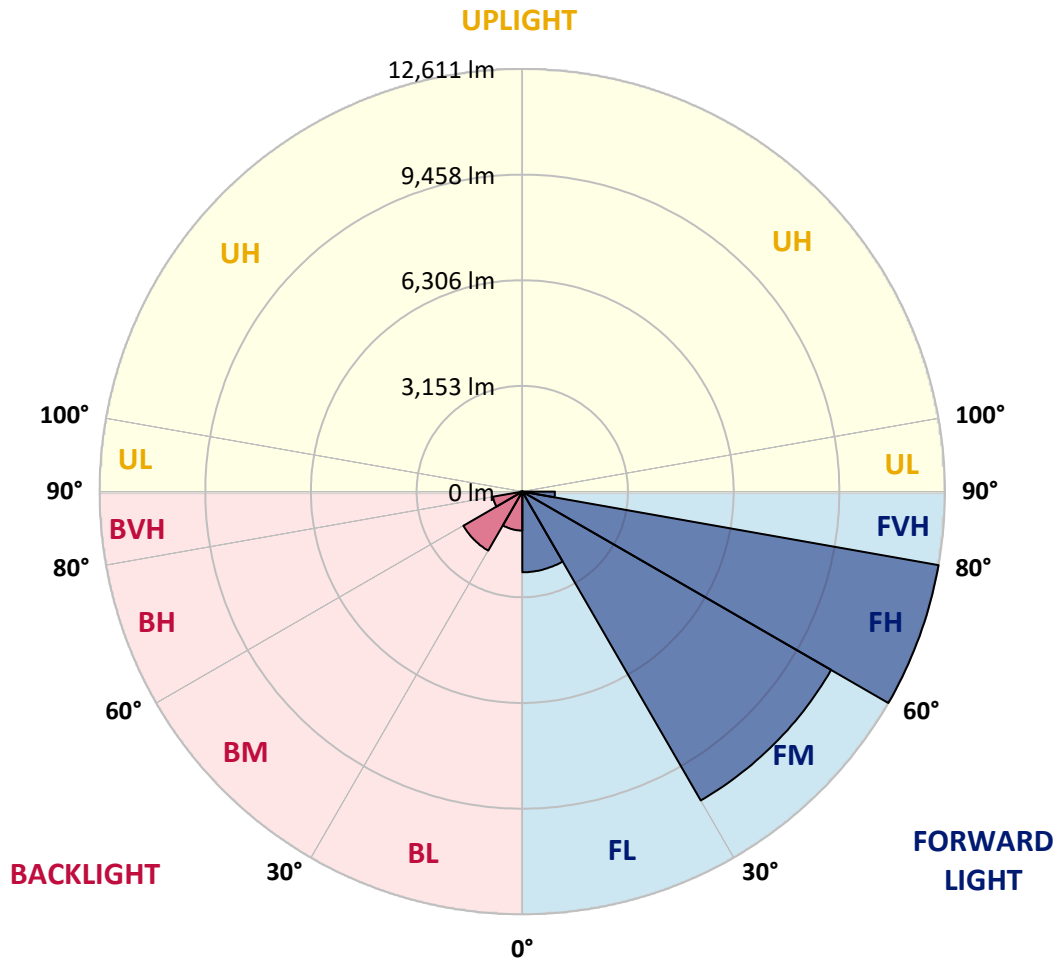
CATALOG NUMBER: GALN-SA6B-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2405.1	7.8			
FM (30°-60°)	10640.1	34.6			
FH (60°-80°)	12611.3	41.0			G5
FVH (80°-90°)	974.5	3.2			G5
BL (0°-30°)	1160.6	3.8	B3/2500		
BM (30°-60°)	2030.5	6.6	B2/2500		
BH (60°-80°)	889.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	55.9	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 IV Short





REPORT NUMBER: P459133

CATALOG NUMBER: GALN-SA6B-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2
2.5°	5622.4	5650.2	5636.3	5617.2	5605.0	5592.9	5575.5	5525.1	5485.2	5441.7	5374.0
5°	5664.1	5681.5	5669.3	5645.0	5617.2	5605.0	5572.0	5506.0	5441.7	5368.8	5268.0
7.5°	5639.8	5646.7	5632.8	5603.3	5579.0	5556.4	5518.2	5445.2	5367.0	5278.4	5146.4
10°	5552.9	5579.0	5579.0	5554.7	5530.3	5518.2	5480.0	5410.5	5339.2	5238.4	5082.1
12.5°	5481.7	5509.5	5532.1	5525.1	5523.4	5523.4	5493.9	5441.7	5358.3	5262.8	5076.9
15°	5433.0	5466.1	5514.7	5542.5	5559.9	5565.1	5552.9	5507.8	5422.6	5311.4	5097.7
17.5°	5422.6	5462.6	5551.2	5612.0	5657.2	5655.4	5652.0	5589.4	5495.6	5380.9	5123.8
20°	5469.5	5521.7	5645.0	5740.6	5806.6	5794.4	5775.3	5693.7	5584.2	5455.6	5148.1
22.5°	5610.3	5664.1	5799.6	5903.9	5968.2	5968.2	5910.8	5803.1	5686.7	5542.5	5181.1
25°	5811.8	5870.9	6015.1	6121.1	6150.6	6128.0	6070.7	5940.4	5806.6	5667.6	5250.6
27.5°	6058.5	6129.8	6263.5	6352.2	6343.5	6326.1	6267.0	6100.2	5966.4	5839.6	5368.8
30°	6366.1	6418.2	6557.2	6578.0	6546.8	6543.3	6459.9	6293.1	6168.0	6070.7	5537.3
32.5°	6656.2	6703.1	6814.3	6823.0	6767.4	6774.4	6696.2	6543.3	6472.0	6437.3	5820.5
35°	6963.7	6988.1	7083.6	7073.2	7036.7	7031.5	7000.2	6854.3	6876.9	6939.4	6221.8
37.5°	7220.9	7269.5	7323.4	7332.1	7330.3	7347.7	7368.6	7299.1	7429.4	7625.7	6748.3
40°	7457.2	7498.9	7578.8	7606.6	7674.4	7709.1	7780.3	7782.1	8082.7	8405.8	7396.4
42.5°	7617.0	7688.3	7837.7	7888.1	8053.1	8157.4	8263.4	8376.3	8812.4	9227.7	8160.9
45°	7756.0	7849.8	8098.3	8254.7	8478.8	8605.6	8829.8	9066.1	9693.3	10237.1	8937.5
47.5°	7966.3	8049.7	8334.6	8610.9	8949.7	9095.6	9430.9	9783.6	10603.7	11199.7	9681.1
50°	8258.2	8308.5	8598.7	9048.7	9481.3	9669.0	10112.0	10621.1	11576.7	12150.1	10334.4
52.5°	8631.7	8652.6	8883.6	9483.1	10052.9	10285.8	10873.0	11467.2	12428.1	12975.4	10852.2
55°	9073.0	9038.3	9219.0	9943.5	10706.2	11010.3	11641.0	12323.8	13385.4	13642.5	11229.2
57.5°	9509.1	9455.3	9599.5	10503.0	11512.4	11879.0	12614.0	13206.4	14240.2	14266.3	11493.3
60°	9971.3	9931.3	10103.3	11159.7	12501.0	12935.4	13614.7	14122.1	15067.3	14700.7	11535.0
62.5°	10445.6	10381.3	10626.3	11898.1	13614.7	14009.1	14667.6	15095.1	15878.7	14862.2	11133.6
65°	10906.0	10876.5	11255.3	12775.5	14883.1	15331.4	15970.7	16260.9	16528.5	14619.0	10138.1
67.5°	11396.0	11455.1	12059.7	13946.6	16537.2	17100.1	17789.9	17517.1	16714.4	13467.1	8537.9
70°	12143.1	12181.3	13116.1	15480.8	18669.0	19348.4	19682.0	17963.6	15817.8	11279.6	6418.2
72.5°	12464.5	12633.1	14059.5	17091.4	21091.0	21506.3	20317.9	16968.0	13176.9	7662.2	3372.4
73°	12393.3	12594.9	14103.0	17336.4	21280.4	21716.5	20182.3	16455.5	12249.1	6598.9	2891.1
75°	11505.5	11753.9	13538.3	17131.4	20912.1	20651.5	18003.6	14024.8	8277.3	3000.6	1317.0
77.5°	9078.2	9149.5	10727.1	13833.7	16467.7	15984.6	13474.0	8765.5	3381.1	1115.4	747.1
80°	4553.9	4816.2	6046.4	7924.6	11012.0	10853.9	8504.9	4145.6	1409.1	655.0	495.2
82.5°	2190.9	2376.8	2945.0	3864.1	6084.6	5940.4	4211.6	2265.6	894.8	382.2	291.9
85°	1410.8	1549.8	1874.7	1843.4	2501.9	2389.0	1892.1	1714.9	529.9	199.8	203.3
87.5°	931.3	1019.9	1223.2	978.2	910.4	823.6	835.7	966.0	104.2	76.4	27.8
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: P459133
 CATALOG NUMBER: GALN-SA6B-735-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2
2.5°	5346.2	5323.6	5248.9	5175.9	5106.4	5040.4	4996.9	4939.6	4901.4	4911.8	4927.4
5°	5212.4	5162.0	5029.9	4901.4	4779.8	4635.5	4519.1	4425.3	4354.1	4328.0	4322.8
7.5°	5071.6	4986.5	4797.1	4576.5	4369.7	4190.8	3984.0	3881.5	3761.6	3719.9	3706.0
10°	4986.5	4871.8	4606.0	4298.5	3987.5	3690.4	3466.2	3283.8	3118.7	3087.5	3071.8
12.5°	4962.2	4811.0	4453.1	4057.0	3643.5	3278.6	2946.7	2707.0	2547.1	2510.6	2456.8
15°	4948.3	4760.6	4310.6	3813.7	3289.0	2844.2	2495.0	2215.3	2069.3	1972.0	1973.8
17.5°	4936.1	4703.3	4150.8	3547.9	2983.2	2470.7	2085.0	1833.0	1699.2	1647.1	1641.9
20°	4918.8	4635.5	3966.6	3268.2	2634.0	2130.1	1780.9	1593.3	1502.9	1459.5	1457.7
22.5°	4911.8	4569.5	3785.9	2983.2	2324.7	1867.8	1579.4	1447.3	1390.0	1360.4	1360.4
25°	4929.2	4522.6	3596.5	2712.2	2050.2	1643.6	1440.4	1350.0	1317.0	1301.4	1296.1
27.5°	4983.0	4501.8	3408.9	2441.1	1798.3	1490.7	1346.5	1284.0	1259.7	1247.5	1249.2
30°	5085.5	4500.0	3224.7	2173.6	1610.6	1374.3	1271.8	1228.4	1209.3	1202.3	1200.6
32.5°	5250.6	4538.2	3044.0	1952.9	1452.5	1277.0	1202.3	1171.0	1162.4	1157.1	1155.4
35°	5530.3	4646.0	2865.1	1751.4	1330.9	1190.2	1136.3	1120.7	1108.5	1113.7	1115.4
37.5°	5907.4	4831.9	2694.8	1593.3	1238.8	1125.9	1080.7	1066.8	1059.9	1065.1	1070.3
40°	6413.0	5099.4	2552.3	1466.4	1172.8	1072.0	1032.1	1019.9	1012.9	1021.6	1023.4
42.5°	6970.7	5408.7	2434.2	1367.4	1118.9	1026.8	988.6	974.7	969.5	974.7	976.5
45°	7544.1	5768.4	2373.4	1296.1	1073.8	993.8	953.9	938.2	926.1	922.6	927.8
47.5°	8108.7	6081.1	2371.6	1252.7	1037.3	964.3	920.9	903.5	887.8	879.2	877.4
50°	8569.2	6329.6	2413.3	1233.6	1006.0	931.3	887.8	870.5	849.6	832.2	835.7
52.5°	8916.6	6491.2	2432.4	1224.9	988.6	896.5	853.1	837.5	813.1	790.5	790.5
55°	9140.8	6529.4	2385.5	1216.2	974.7	860.0	813.1	799.2	774.9	752.3	752.3
57.5°	9217.2	6411.2	2217.0	1195.4	960.8	828.8	773.2	761.0	741.9	719.3	715.8
60°	9040.0	6011.6	1921.6	1132.8	933.0	795.8	729.7	724.5	717.6	698.5	696.7
62.5°	8357.2	5163.7	1600.2	1051.2	886.1	761.0	689.8	698.5	703.7	693.2	691.5
65°	7220.9	4192.5	1367.4	938.2	823.6	712.4	646.3	668.9	682.8	682.8	679.3
67.5°	5857.0	3219.5	1151.9	840.9	745.4	646.3	597.7	615.1	625.5	622.0	630.7
70°	4163.0	2180.5	938.2	729.7	646.3	571.6	535.1	535.1	528.2	524.7	524.7
72.5°	2018.9	1245.8	761.0	609.8	550.8	488.2	458.7	446.5	432.6	430.9	422.2
73°	1687.1	1117.2	726.3	587.3	528.2	476.1	443.1	423.9	415.3	408.3	406.6
75°	1026.8	847.9	606.4	495.2	450.0	410.0	380.5	363.1	354.4	349.2	347.5
77.5°	675.9	632.4	470.9	378.8	344.0	319.7	307.5	290.2	284.9	278.0	278.0
80°	503.9	483.0	337.1	267.6	246.7	225.9	222.4	218.9	205.0	196.3	192.9
82.5°	324.9	344.0	229.3	179.0	156.4	139.0	140.7	145.9	132.0	119.9	116.4
85°	231.1	248.5	139.0	81.7	66.0	57.3	64.3	57.3	59.1	46.9	38.2
87.5°	38.2	66.0	24.3	10.4	5.2	3.5	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)