

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: P458959

Luminaire Tested: **GALN-SA4D-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458959
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-SA4D-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA 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: 27905 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

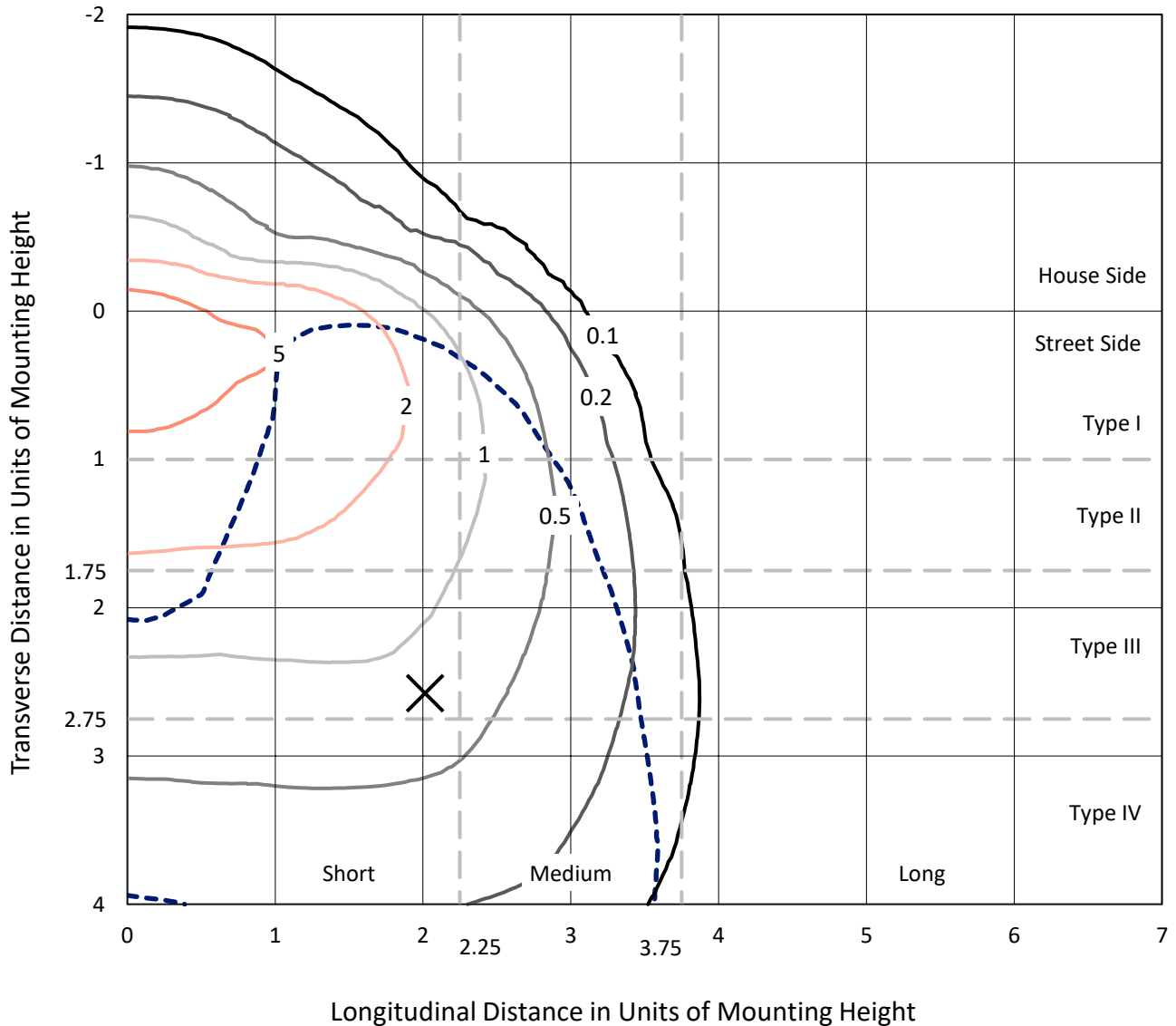
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458959
 CATALOG NUMBER: GALN-SA4D-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

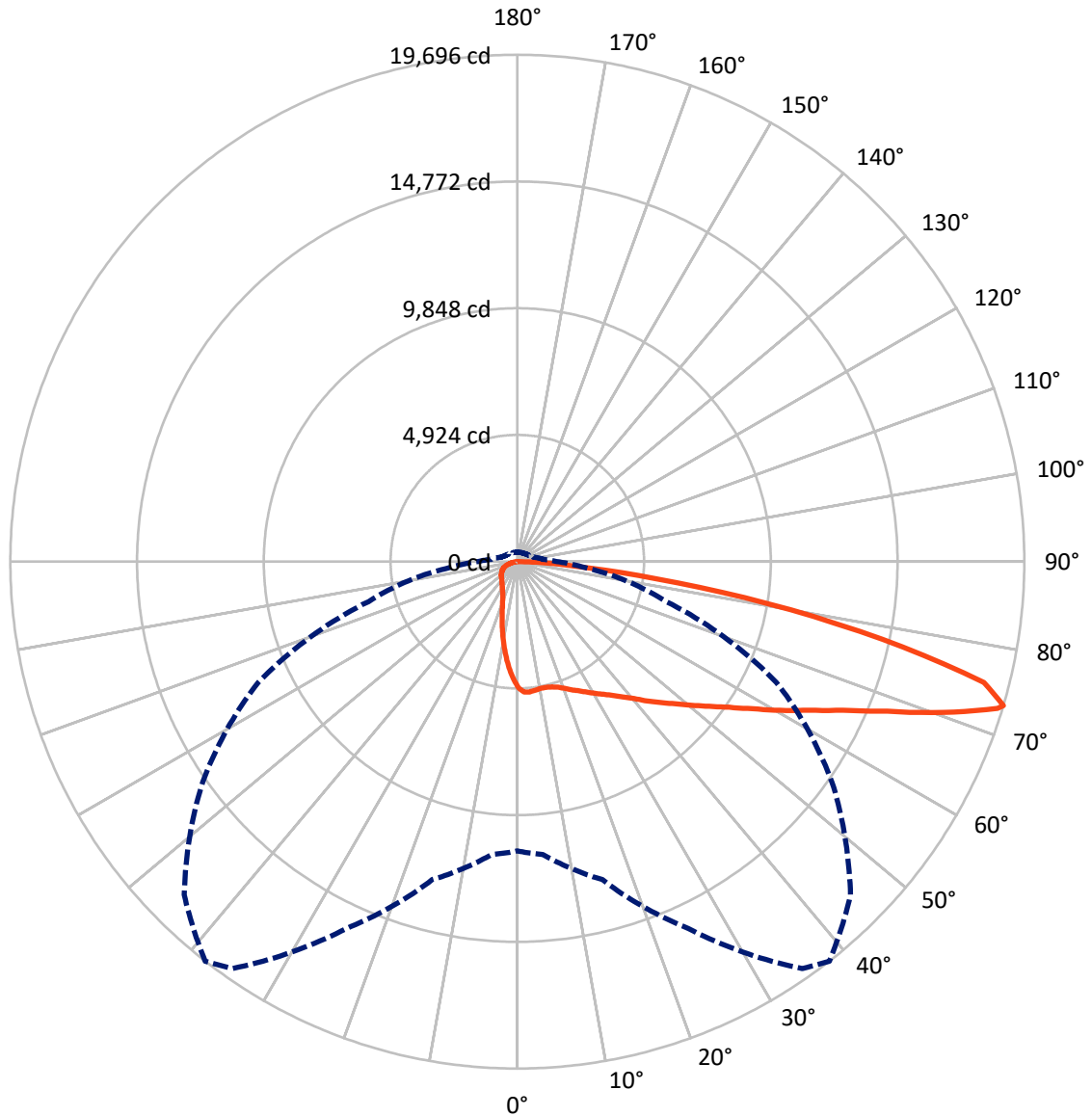
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

REPORT NUMBER: P458959
CATALOG NUMBER: GALN-SA4D-735-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458959

CATALOG NUMBER: GALN-SA4D-735-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3751.3	0.0	3751.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	24153.7	0.0	24153.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	27905.0	0.0	27905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.9	1.5
10°-20°	1097.4	3.9
20°-30°	1708.8	6.1
30°-40°	2506.4	9.0
40°-50°	3717.9	13.3
50°-60°	5267.6	18.9
60°-70°	6682.1	23.9
70°-80°	5562.3	19.9
80°-90°	934.6	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°	27905.0	100.0
0°-180°	27905.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458959

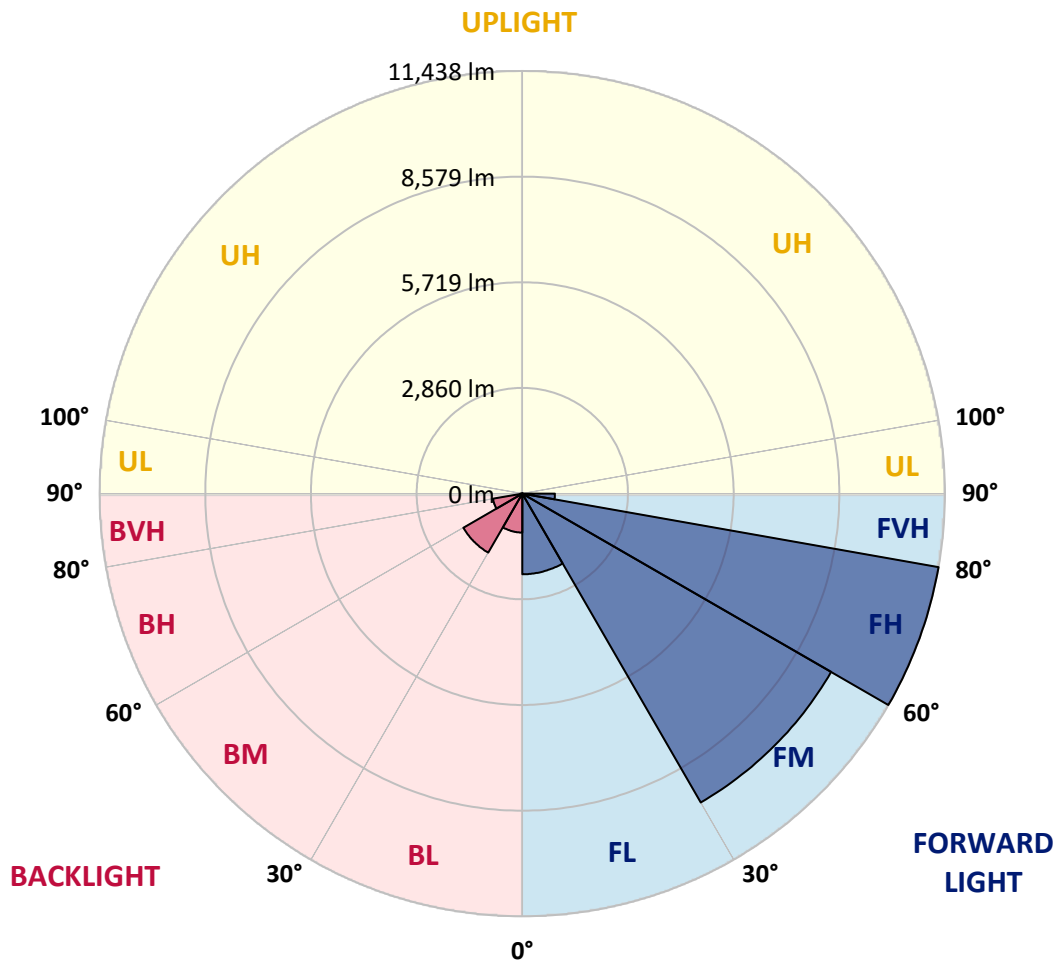
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2181.4	7.8			
FM (30°-60°)	9650.3	34.6			
FH (60°-80°)	11438.1	41.0			G4/12000
FVH (80°-90°)	883.9	3.2			G5
BL (0°-30°)	1052.6	3.8	B3/2500		
BM (30°-60°)	1841.6	6.6	B2/2500		
BH (60°-80°)	806.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	50.7	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: P458959

CATALOG NUMBER: GALN-SA4D-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4902.4	4902.4	4902.4	4902.4	4902.4	4902.4	4902.4	4902.4	4902.4	4902.4	4902.4
2.5°	5099.4	5124.6	5112.0	5094.7	5083.7	5072.6	5056.9	5011.2	4974.9	4935.5	4874.1
5°	5137.2	5153.0	5142.0	5119.9	5094.7	5083.7	5053.7	4993.8	4935.5	4869.3	4777.9
7.5°	5115.2	5121.5	5108.9	5082.1	5060.0	5039.5	5004.9	4938.7	4867.8	4787.4	4667.6
10°	5036.4	5060.0	5060.0	5038.0	5015.9	5004.9	4970.2	4907.2	4842.6	4751.2	4609.3
12.5°	4971.8	4997.0	5017.5	5011.2	5009.6	5009.6	4982.8	4935.5	4859.9	4773.2	4604.6
15°	4927.6	4957.6	5001.7	5026.9	5042.7	5047.4	5036.4	4995.4	4918.2	4817.3	4623.5
17.5°	4918.2	4954.4	5034.8	5090.0	5130.9	5129.4	5126.2	5069.5	4984.4	4880.4	4647.1
20°	4960.7	5008.0	5119.9	5206.6	5266.5	5255.4	5238.1	5164.0	5064.7	4948.1	4669.2
22.5°	5088.4	5137.2	5260.2	5354.7	5413.0	5413.0	5361.0	5263.3	5157.7	5026.9	4699.2
25°	5271.2	5324.8	5455.6	5551.7	5578.5	5558.0	5506.0	5387.8	5266.5	5140.4	4762.2
27.5°	5495.0	5559.6	5680.9	5761.3	5753.4	5737.6	5684.1	5532.8	5411.4	5296.4	4869.3
30°	5773.9	5821.1	5947.2	5966.1	5937.8	5934.6	5859.0	5707.7	5594.2	5506.0	5022.2
32.5°	6037.0	6079.6	6180.4	6188.3	6137.9	6144.2	6073.3	5934.6	5870.0	5838.5	5279.1
35°	6316.0	6338.0	6424.7	6415.2	6382.1	6377.4	6349.1	6216.7	6237.2	6293.9	5643.1
37.5°	6549.2	6593.3	6642.2	6650.0	6648.5	6664.2	6683.1	6620.1	6738.3	6916.4	6120.6
40°	6763.5	6801.3	6873.8	6899.0	6960.5	6992.0	7056.6	7058.2	7330.8	7623.9	6708.3
42.5°	6908.5	6973.1	7108.6	7154.3	7304.0	7398.6	7494.7	7597.1	7992.7	8369.3	7401.7
45°	7034.5	7119.6	7345.0	7486.8	7690.1	7805.1	8008.4	8222.7	8791.6	9284.8	8106.1
47.5°	7225.2	7300.9	7559.3	7809.9	8117.1	8249.5	8553.7	8873.6	9617.3	10157.9	8780.6
50°	7490.0	7535.7	7798.8	8207.0	8599.4	8769.5	9171.4	9633.1	10499.8	11019.8	9373.1
52.5°	7828.8	7847.7	8057.3	8600.9	9117.8	9329.0	9861.6	10400.5	11272.0	11768.4	9842.7
55°	8229.0	8197.5	8361.4	9018.5	9710.3	9986.1	10558.1	11177.4	12140.3	12373.5	10184.6
57.5°	8624.6	8575.7	8706.5	9525.9	10441.5	10774.0	11440.6	11978.0	12915.6	12939.2	10424.2
60°	9043.7	9007.5	9163.5	10121.6	11338.2	11732.1	12348.3	12808.4	13665.7	13333.2	10462.0
62.5°	9473.9	9415.6	9637.8	10791.3	12348.3	12706.0	13303.2	13690.9	14401.6	13479.7	10098.0
65°	9891.5	9864.8	10208.3	11587.1	13498.6	13905.2	14485.1	14748.3	14991.0	13259.1	9195.0
67.5°	10335.9	10389.5	10937.9	12649.3	14998.8	15509.4	16135.0	15887.6	15159.6	12214.3	7743.7
70°	11013.5	11048.2	11896.0	14040.7	16932.4	17548.5	17851.1	16292.6	14346.4	10230.3	5821.1
72.5°	11305.1	11457.9	12751.7	15501.5	19129.1	19505.7	18427.9	15389.6	11951.2	6949.5	3058.7
73°	11240.5	11423.3	12791.1	15723.7	19300.9	19696.4	18304.9	14924.8	11109.7	5985.0	2622.2
75°	10435.2	10660.6	12278.9	15537.8	18966.8	18730.4	16328.8	12720.2	7507.3	2721.5	1194.5
77.5°	8233.8	8298.4	9729.2	12546.8	14935.8	14497.7	12220.6	7950.1	3066.6	1011.7	677.6
80°	4130.3	4368.2	5483.9	7187.4	9987.7	9844.3	7713.7	3760.0	1278.0	594.1	449.1
82.5°	1987.1	2155.7	2671.0	3504.7	5518.6	5387.8	3819.8	2054.9	811.6	346.7	264.7
85°	1279.6	1405.6	1700.3	1672.0	2269.2	2166.8	1716.1	1555.4	480.6	181.2	184.4
87.5°	844.6	925.0	1109.4	887.2	825.7	746.9	758.0	876.2	94.6	69.3	25.2
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: P458959
 CATALOG NUMBER: GALN-SA4D-735-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4902.4	4902.4	4902.4	4902.4	4902.4	4902.4	4902.4	4902.4	4902.4	4902.4	4902.4
2.5°	4848.9	4828.4	4760.6	4694.4	4631.4	4571.5	4532.1	4480.1	4445.4	4454.9	4469.1
5°	4727.5	4681.8	4562.1	4445.4	4335.1	4204.3	4098.8	4013.7	3949.1	3925.4	3920.7
7.5°	4599.9	4522.7	4350.9	4150.8	3963.2	3800.9	3613.4	3520.4	3411.7	3373.9	3361.3
10°	4522.7	4418.7	4177.5	3898.6	3616.6	3347.1	3143.8	2978.3	2828.6	2800.3	2786.1
12.5°	4500.6	4363.5	4038.9	3679.6	3304.5	2973.6	2672.6	2455.2	2310.2	2277.1	2228.2
15°	4488.0	4317.8	3909.7	3459.0	2983.1	2579.6	2262.9	2009.2	1876.8	1788.6	1790.2
17.5°	4477.0	4265.8	3764.7	3217.9	2705.7	2240.8	1891.0	1662.5	1541.2	1493.9	1489.2
20°	4461.2	4204.3	3597.6	2964.2	2389.0	1932.0	1615.2	1445.0	1363.1	1323.7	1322.1
22.5°	4454.9	4144.5	3433.8	2705.7	2108.5	1694.0	1432.4	1312.7	1260.7	1233.9	1233.9
25°	4470.7	4101.9	3262.0	2459.9	1859.5	1490.7	1306.4	1224.4	1194.5	1180.3	1175.6
27.5°	4519.5	4083.0	3091.8	2214.1	1631.0	1352.1	1221.3	1164.5	1142.5	1131.5	1133.0
30°	4612.5	4081.4	2924.8	1971.4	1460.8	1246.5	1153.5	1114.1	1096.8	1090.5	1088.9
32.5°	4762.2	4116.1	2760.9	1771.2	1317.4	1158.2	1090.5	1062.1	1054.2	1049.5	1047.9
35°	5015.9	4213.8	2598.6	1588.4	1207.1	1079.4	1030.6	1016.4	1005.4	1010.1	1011.7
37.5°	5357.9	4382.4	2444.1	1445.0	1123.6	1021.1	980.2	967.6	961.3	966.0	970.7
40°	5816.4	4625.1	2314.9	1330.0	1063.7	972.3	936.0	925.0	918.7	926.6	928.2
42.5°	6322.3	4905.6	2207.8	1240.2	1014.8	931.3	896.7	884.0	879.3	884.0	885.6
45°	6842.3	5231.8	2152.6	1175.6	973.9	901.4	865.1	851.0	839.9	836.8	841.5
47.5°	7354.4	5515.4	2151.0	1136.2	940.8	874.6	835.2	819.4	805.3	797.4	795.8
50°	7772.0	5740.8	2188.8	1118.8	912.4	844.6	805.3	789.5	770.6	754.8	758.0
52.5°	8087.2	5887.3	2206.2	1111.0	896.7	813.1	773.7	759.6	737.5	717.0	717.0
55°	8290.5	5922.0	2163.6	1103.1	884.0	780.0	737.5	724.9	702.8	682.3	682.3
57.5°	8359.8	5814.8	2010.8	1084.2	871.4	751.7	701.2	690.2	672.9	652.4	649.2
60°	8199.1	5452.4	1742.9	1027.4	846.2	721.7	661.9	657.1	650.8	633.5	631.9
62.5°	7579.8	4683.4	1451.3	953.4	803.7	690.2	625.6	633.5	638.2	628.8	627.2
65°	6549.2	3802.5	1240.2	851.0	746.9	646.1	586.2	606.7	619.3	619.3	616.2
67.5°	5312.2	2920.0	1044.8	762.7	676.0	586.2	542.1	557.8	567.3	564.2	572.0
70°	3775.7	1977.7	851.0	661.9	586.2	518.5	485.4	485.4	479.1	475.9	475.9
72.5°	1831.1	1129.9	690.2	553.1	499.5	442.8	416.0	405.0	392.4	390.8	382.9
73°	1530.1	1013.3	658.7	532.6	479.1	431.8	401.8	384.5	376.6	370.3	368.7
75°	931.3	769.0	550.0	449.1	408.1	371.9	345.1	329.4	321.5	316.7	315.2
77.5°	613.0	573.6	427.1	343.5	312.0	290.0	278.9	263.2	258.4	252.1	252.1
80°	457.0	438.1	305.7	242.7	223.8	204.9	201.7	198.6	185.9	178.1	174.9
82.5°	294.7	312.0	208.0	162.3	141.8	126.1	127.6	132.4	119.8	108.7	105.6
85°	209.6	225.3	126.1	74.1	59.9	52.0	58.3	52.0	53.6	42.5	34.7
87.5°	34.7	59.9	22.1	9.5	4.7	3.2	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)