

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: P459100

Luminaire Tested: **GALN-SA6A-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459100
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-SA6A-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 25216 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

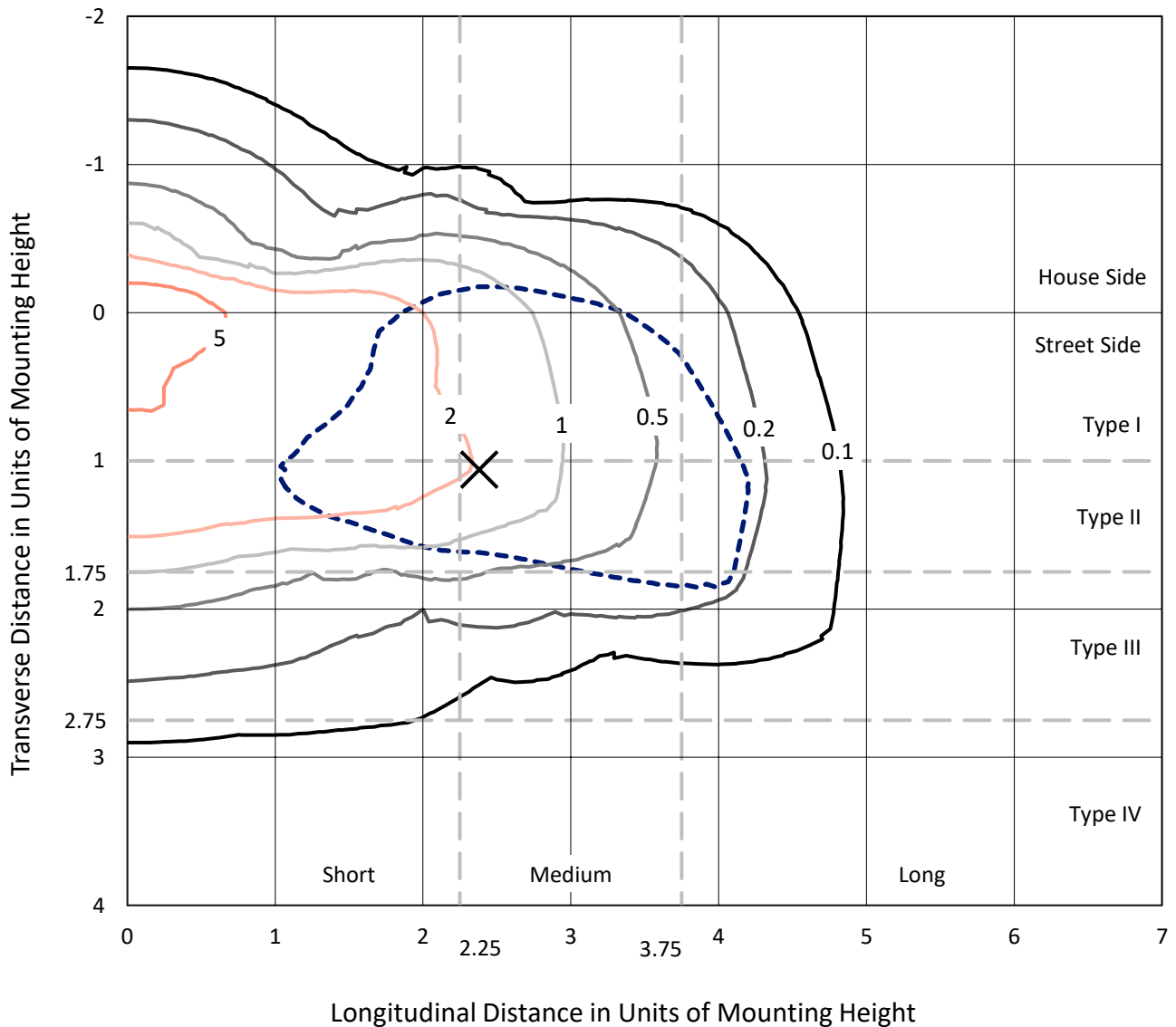
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

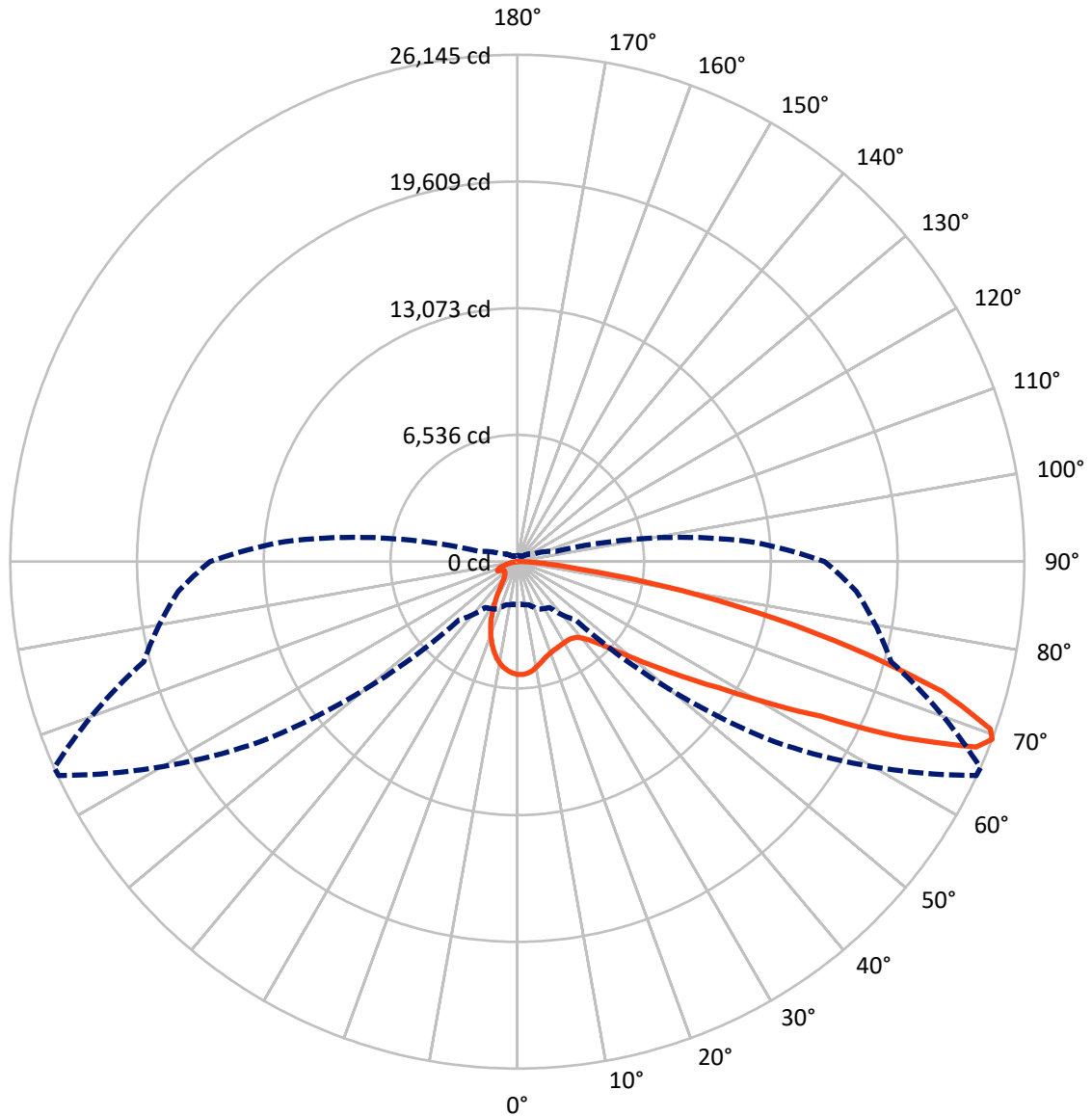
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4742.2	0.0	4742.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20473.8	0.0	20473.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	25216.0	0.0	25216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.7	2.0
10°-20°	1199.4	4.8
20°-30°	1632.8	6.5
30°-40°	2194.2	8.7
40°-50°	3276.3	13.0
50°-60°	5211.5	20.7
60°-70°	6409.8	25.4
70°-80°	4170.5	16.5
80°-90°	615.9	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°	25216.0	100.0
0°-180°	25216.0	100.0

Coefficient of Utilization



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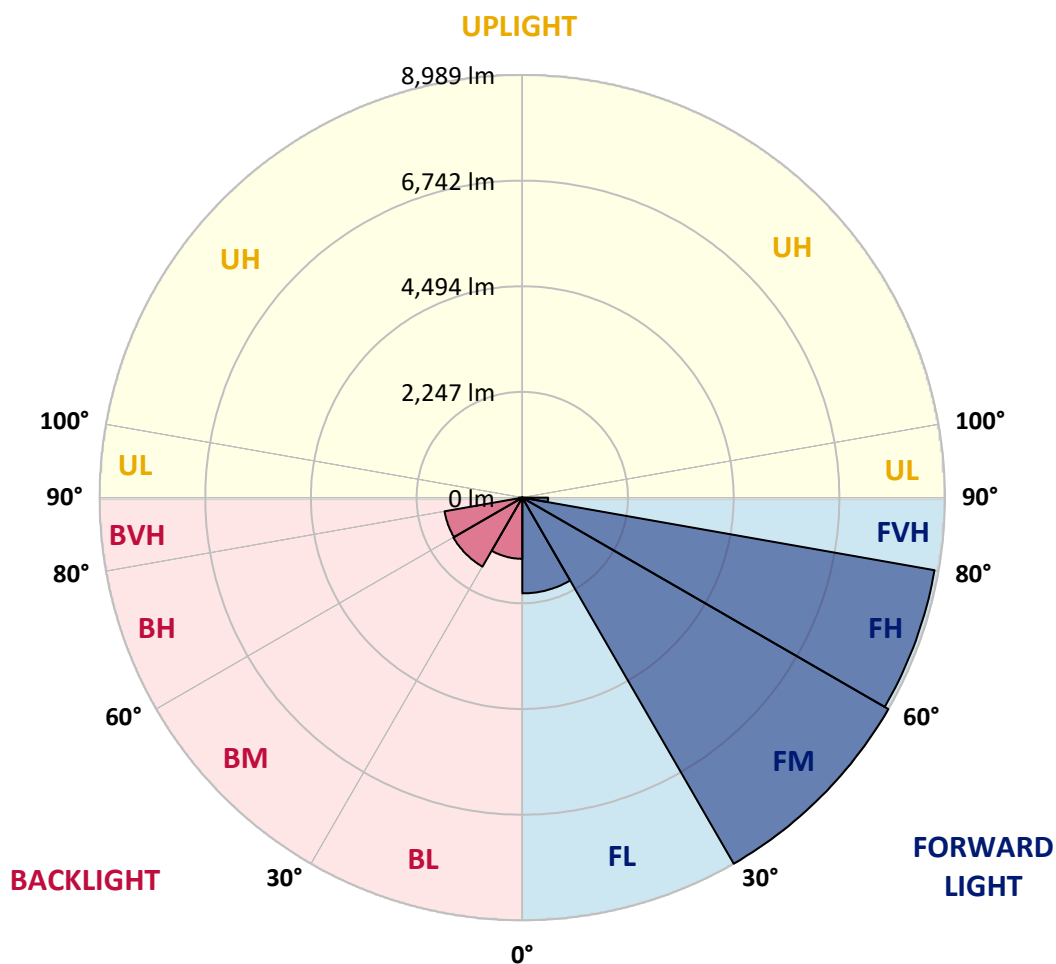
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2036.2	8.1			
FM	(30°-60°)	8988.7	35.6			
FH	(60°-80°)	8901.4	35.3			G4/12000
FVH	(80°-90°)	547.5	2.2			G4/750
BL	(0°-30°)	1301.7	5.2	B3/2500		
BM	(30°-60°)	1693.2	6.7	B2/2500		
BH	(60°-80°)	1678.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	68.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1
2.5°	5619.2	5641.5	5666.7	5694.6	5747.7	5777.0	5797.9	5821.7	5824.5	5837.0	5827.3
5°	5204.5	5231.0	5268.7	5321.8	5401.4	5525.6	5654.1	5758.8	5771.4	5830.1	5846.8
7.5°	4858.1	4873.5	4904.2	4989.4	5102.5	5240.8	5427.9	5640.1	5670.9	5810.5	5859.4
10°	4576.1	4591.4	4627.7	4715.7	4827.4	5000.6	5205.9	5485.1	5510.3	5750.5	5862.2
12.5°	4365.2	4379.2	4418.3	4504.9	4633.3	4795.3	5021.5	5317.6	5353.9	5670.9	5835.6
15°	4204.6	4231.2	4263.3	4334.5	4469.9	4626.3	4845.6	5164.0	5193.3	5587.1	5817.5
17.5°	4136.2	4148.8	4171.1	4236.7	4335.9	4489.5	4710.1	5043.9	5078.8	5528.4	5813.3
20°	4139.0	4151.6	4155.7	4192.1	4263.3	4395.9	4613.8	4948.9	4990.8	5476.8	5820.3
22.5°	4233.9	4235.3	4220.0	4207.4	4235.3	4345.7	4545.3	4877.7	4926.6	5454.4	5825.9
25°	4380.6	4405.7	4383.4	4324.7	4273.0	4326.1	4518.8	4838.6	4884.7	5422.3	5818.9
27.5°	4618.0	4622.2	4604.0	4524.4	4390.3	4351.2	4507.6	4809.3	4848.4	5398.6	5784.0
30°	4936.3	4923.8	4907.0	4819.0	4608.2	4447.6	4531.4	4782.7	4823.2	5363.7	5742.1
32.5°	5258.9	5298.0	5282.7	5179.3	4905.6	4634.7	4608.2	4779.9	4813.5	5337.1	5696.0
35°	5601.0	5619.2	5691.8	5638.7	5358.1	4937.7	4752.0	4823.2	4849.8	5338.5	5663.9
37.5°	5869.2	5918.0	6088.4	6134.5	5870.6	5338.5	4985.2	4946.1	4957.3	5406.9	5676.5
40°	6193.1	6276.9	6496.1	6684.7	6511.5	5859.4	5381.8	5173.7	5187.7	5571.7	5758.8
42.5°	6603.7	6662.3	6957.0	7212.5	7184.6	6547.8	5862.2	5546.6	5553.6	5899.9	5989.2
45°	7084.0	7167.8	7498.8	7882.8	7948.4	7327.0	6556.2	6110.7	6106.5	6409.6	6419.3
47.5°	7698.5	7750.1	8078.3	8497.2	8762.5	8305.9	7398.2	6920.7	6876.0	7152.5	7072.9
50°	8264.0	8345.0	8593.6	9051.6	9712.1	9452.4	8505.6	7970.8	7866.0	8124.4	7990.3
52.5°	8501.4	8586.6	8796.1	9364.4	10526.2	10935.4	9911.8	9223.4	9048.8	9247.1	9198.2
55°	8089.5	8199.8	8395.3	9086.5	10883.7	12646.0	11808.1	10671.4	10544.4	10459.2	10473.2
57.5°	6982.1	7086.8	7350.8	8113.2	10456.4	13887.4	14515.8	12532.9	12260.6	11868.2	11935.2
60°	5314.8	5380.4	5517.3	6362.1	9189.8	14210.0	17590.7	14885.8	14712.7	13271.6	13319.1
62.5°	3774.5	3848.5	3943.5	4365.2	6728.0	13300.9	19998.1	18171.6	17553.0	14725.3	14679.2
65°	3065.1	3014.9	3129.4	3326.3	3947.7	10308.4	20540.0	22732.3	21880.5	16639.8	16000.2
67.5°	2520.5	2467.5	2580.6	2931.1	3002.3	5983.7	18587.8	25692.7	25522.4	18721.8	17342.2
69°	2231.5	2203.6	2302.7	2702.1	2882.2	4249.3	16192.9	26104.7	26145.2	19949.3	17548.8
70°	2010.8	2022.0	2118.4	2586.2	2827.8	3503.6	13839.9	25536.3	25879.9	20562.3	17325.4
72.5°	1480.2	1503.9	1638.0	2142.1	2776.1	2973.0	8236.1	22305.0	22912.5	20598.6	15849.4
75°	1034.7	1023.6	1142.3	1612.9	2622.5	2946.4	4837.2	17250.0	17938.4	17804.4	13317.7
77.5°	677.3	695.4	790.4	1139.5	2206.3	2924.1	3153.1	12238.2	12685.1	11907.3	7877.2
80°	477.6	476.2	529.2	777.8	1636.6	2809.6	2582.0	7713.8	7600.7	4679.4	2336.2
82.5°	273.7	293.2	354.7	547.4	1094.8	2473.1	2375.3	3689.3	3368.2	1333.6	789.0
85°	152.2	159.2	210.9	331.0	639.6	1862.8	2073.7	1678.5	1583.5	557.2	339.3
87.5°	48.9	53.1	88.0	167.6	290.5	879.7	1174.4	775.0	715.0	201.1	136.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1	5823.1
2.5°	5831.5	5848.2	5803.5	5760.2	5721.1	5666.7	5617.8	5577.3	5549.4	5545.2	5531.2
5°	5851.0	5852.4	5767.2	5652.7	5541.0	5418.1	5291.0	5200.3	5115.1	5067.6	5043.9
7.5°	5865.0	5852.4	5698.8	5513.1	5298.0	5074.6	4851.2	4672.4	4534.2	4479.7	4500.7
10°	5859.4	5820.3	5595.5	5298.0	4985.2	4651.5	4330.3	4078.9	3848.5	3729.8	3732.6
12.5°	5828.7	5764.4	5441.9	5056.4	4597.0	4150.2	3658.6	3319.3	3052.6	2894.8	2845.9
15°	5802.1	5690.4	5261.7	4728.3	4157.1	3519.0	2919.9	2501.0	2277.6	2153.3	2151.9
17.5°	5774.2	5619.2	5064.8	4380.6	3651.6	2830.5	2202.2	1882.4	1777.6	1790.2	1769.3
20°	5744.9	5535.4	4859.5	3993.8	3035.8	2111.4	1649.2	1519.3	1548.6	1605.9	1614.3
22.5°	5711.4	5446.0	4638.9	3567.9	2387.9	1589.1	1337.8	1318.2	1393.6	1483.0	1495.6
25°	5659.7	5334.3	4361.0	3122.4	1841.9	1280.5	1171.6	1185.6	1259.6	1335.0	1343.4
27.5°	5587.1	5196.1	4080.3	2566.6	1383.9	1099.0	1071.1	1089.2	1125.5	1171.6	1182.8
30°	5489.3	5039.7	3757.8	2086.3	1108.8	1008.2	997.0	1006.8	1027.8	1047.3	1052.9
32.5°	5391.6	4888.9	3432.4	1597.5	988.7	948.2	937.0	937.0	937.0	939.8	941.2
35°	5300.8	4746.4	3083.3	1244.2	925.8	900.7	885.3	868.6	865.8	856.0	856.0
37.5°	5250.5	4616.6	2711.8	1041.7	879.7	861.6	840.6	812.7	797.4	798.8	796.0
40°	5260.3	4531.4	2373.9	927.2	842.0	822.5	790.4	758.3	748.5	748.5	745.7
42.5°	5370.6	4503.5	2049.9	867.2	805.7	783.4	742.9	713.6	708.0	706.6	709.4
45°	5624.8	4571.9	1759.5	828.1	775.0	741.5	701.0	674.5	668.9	668.9	667.5
47.5°	6120.5	4793.9	1551.4	802.9	752.7	709.4	667.5	641.0	631.2	628.4	628.4
50°	6891.3	5275.7	1396.4	780.6	724.7	680.1	636.8	606.0	590.7	589.3	587.9
52.5°	7962.4	6027.0	1336.4	763.8	694.0	649.3	601.9	572.5	553.0	548.8	546.0
55°	9215.0	7075.7	1418.8	751.3	661.9	614.4	565.6	534.8	516.7	508.3	506.9
57.5°	10665.9	8335.2	1731.6	734.5	632.6	576.7	529.2	498.5	479.0	469.2	466.4
60°	11968.7	9629.7	2277.6	724.7	607.4	536.2	487.4	459.4	441.3	431.5	430.1
62.5°	13400.1	10864.2	2929.7	751.3	596.3	497.1	448.3	423.1	407.8	398.0	398.0
65°	14929.1	12100.0	3361.2	840.6	613.0	466.4	406.4	385.4	371.4	364.5	363.1
67.5°	15959.7	12527.3	2769.1	932.8	654.9	432.9	365.9	349.1	340.7	333.7	333.7
69°	15848.0	11986.9	2043.0	956.5	667.5	416.1	343.5	331.0	319.8	317.0	314.2
70°	15494.7	11371.1	1712.0	941.2	657.7	400.8	329.6	314.2	304.4	301.6	300.2
72.5°	13800.8	9861.5	1274.9	818.3	560.0	347.7	291.9	277.9	269.5	265.3	265.3
75°	11466.0	8060.1	995.6	650.7	438.5	293.2	250.0	238.8	231.8	229.0	227.6
77.5°	6426.3	4500.7	715.0	509.7	332.3	237.4	209.5	199.7	192.7	189.9	189.9
80°	1790.2	1286.1	420.3	336.5	226.2	180.1	166.2	159.2	149.4	142.4	146.6
82.5°	674.5	557.2	240.2	202.5	143.8	120.1	115.9	110.3	106.1	96.4	96.4
85°	328.2	270.9	153.6	107.5	79.6	62.8	60.0	57.3	54.5	47.5	48.9
87.5°	113.1	120.1	67.0	39.1	23.7	15.4	12.6	7.0	7.0	7.0	7.0
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)