

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: P647382

Luminaire Tested: **GALN-SA4D-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647382
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-SA4D-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 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: 23918.3 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

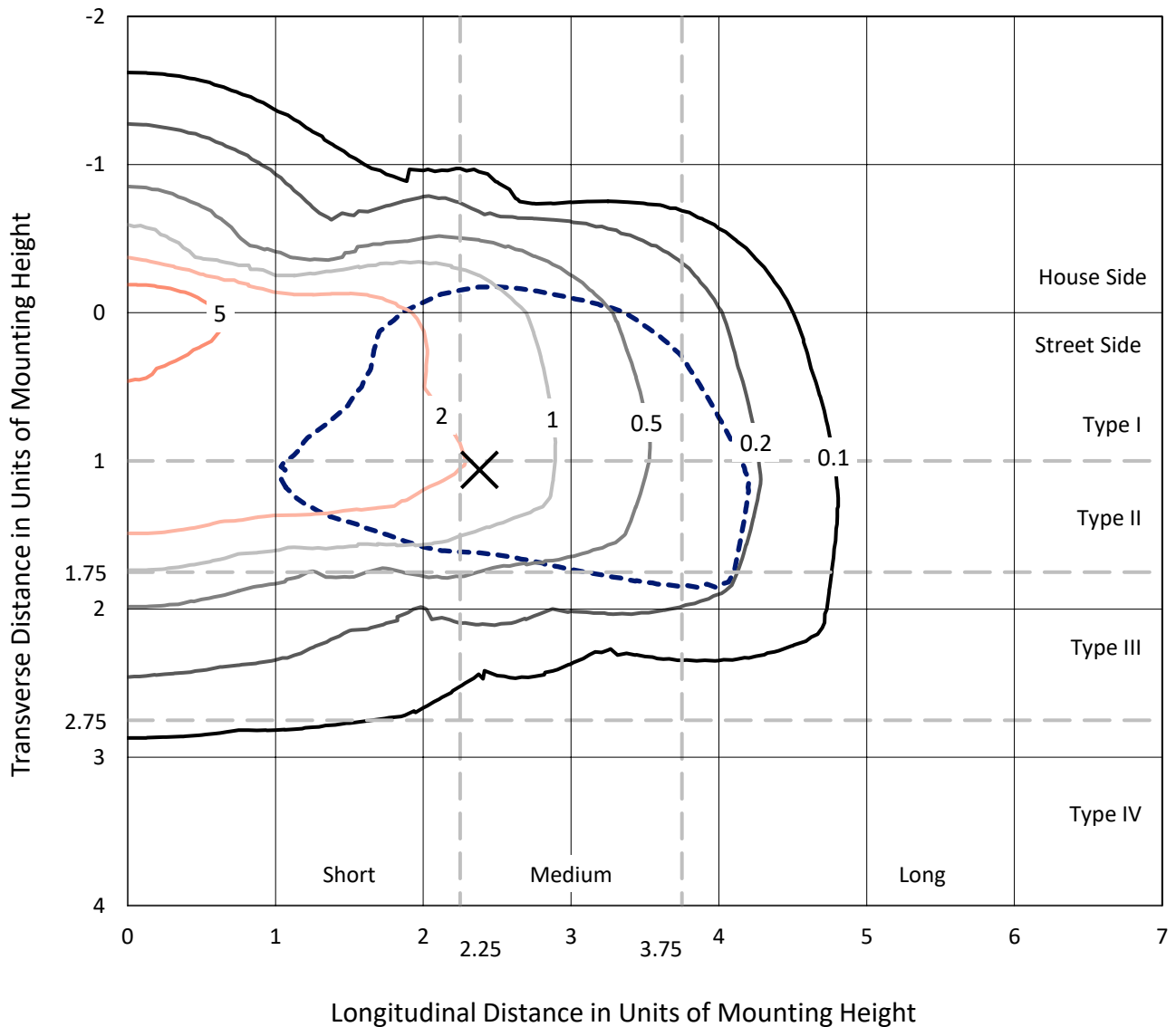
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

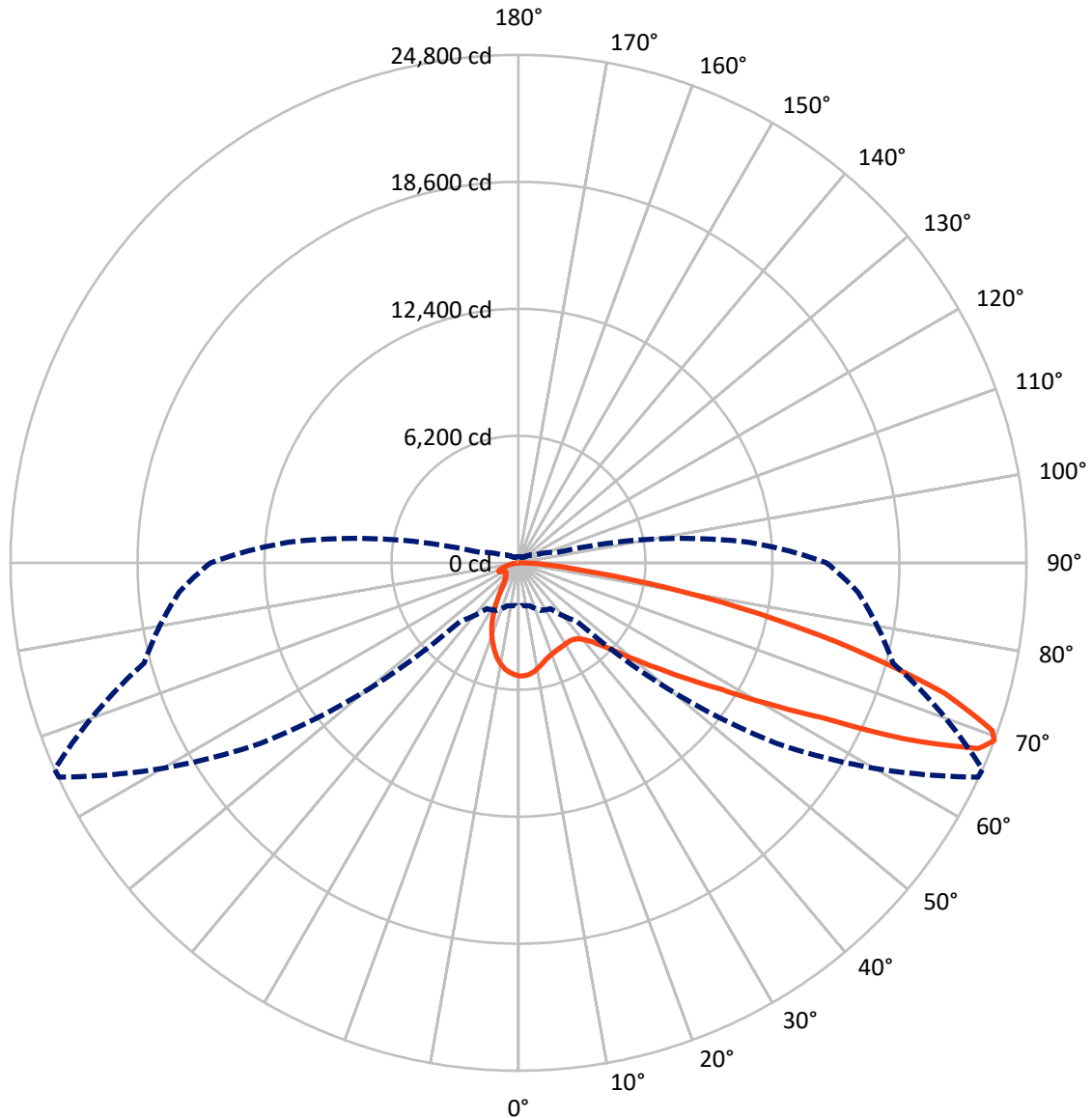
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	4498.1	0.0	4498.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19420.2	0.0	19420.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	23918.3	0.0	23918.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.6	2.0
10°-20°	1137.7	4.8
20°-30°	1548.8	6.5
30°-40°	2081.3	8.7
40°-50°	3107.7	13.0
50°-60°	4943.3	20.7
60°-70°	6079.9	25.4
70°-80°	3955.9	16.5
80°-90°	584.2	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°	23918.3	100.0
0°-180°	23918.3	100.0

Coefficient of Utilization

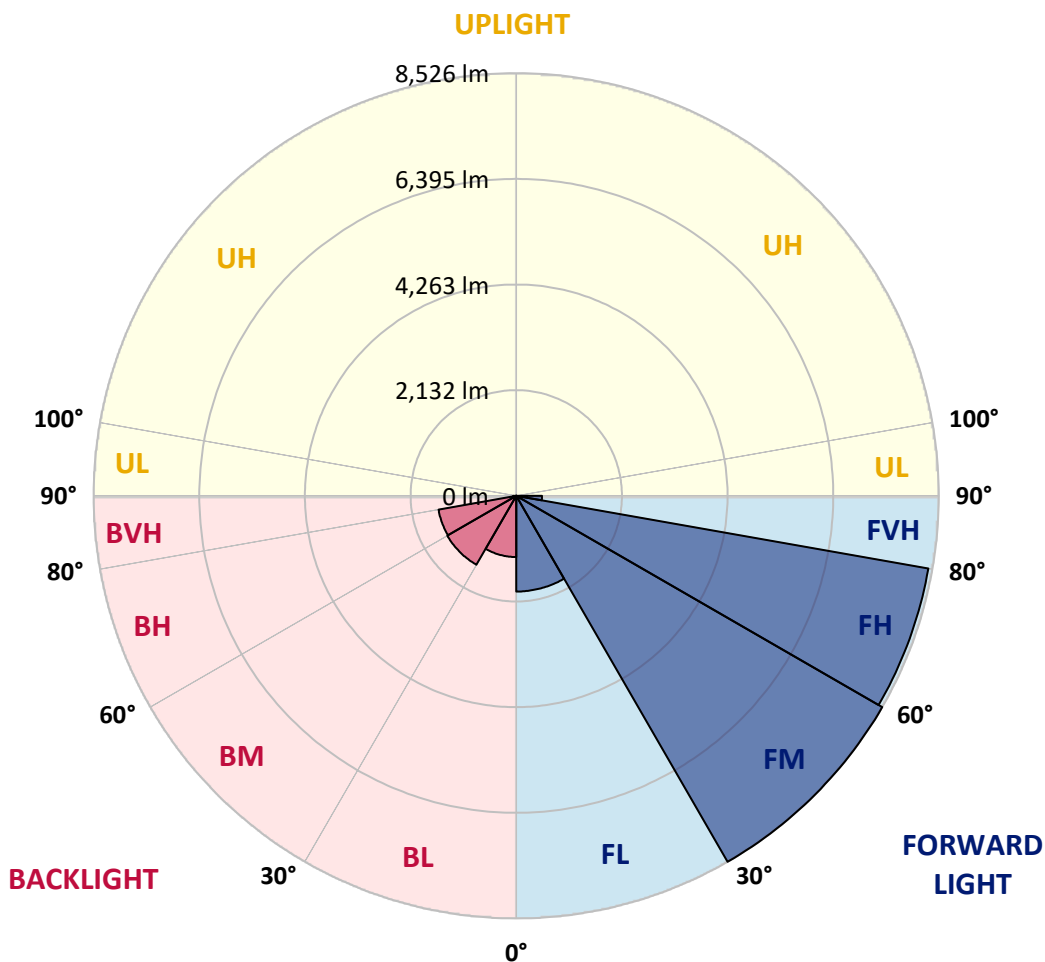


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1931.4	8.1			
FM (30°-60°)	8526.2	35.6			
FH (60°-80°)	8443.3	35.3			G4/12000
FVH (80°-90°)	519.4	2.2			G4/750
BL (0°-30°)	1234.8	5.2	B3/2500		
BM (30°-60°)	1606.0	6.7	B2/2500		
BH (60°-80°)	1592.5	6.7	B3/2500		G3/2500
BVH (80°-90°)	64.8	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°	5523.4	5523.4	5523.4	5523.4	5523.4	5523.4	5523.4	5523.4	5523.4	5523.4	5523.4
2.5°	5330.0	5351.2	5375.1	5401.5	5451.9	5479.7	5499.6	5522.1	5524.7	5536.7	5527.4
5°	4936.7	4961.8	4997.6	5047.9	5123.4	5241.2	5363.2	5462.4	5474.4	5530.0	5545.9
7.5°	4608.1	4622.7	4651.8	4732.6	4840.0	4971.0	5148.5	5349.8	5379.1	5511.5	5557.8
10°	4340.6	4355.1	4389.6	4473.0	4579.0	4743.3	4937.9	5202.9	5226.7	5454.5	5560.5
12.5°	4140.6	4153.8	4190.9	4273.0	4394.9	4548.5	4763.1	5043.9	5078.4	5379.1	5535.3
15°	3988.2	4013.4	4043.9	4111.5	4239.9	4388.2	4596.2	4898.2	4926.0	5299.6	5518.1
17.5°	3923.3	3935.3	3956.4	4018.7	4112.8	4258.4	4467.7	4784.3	4817.4	5243.9	5514.1
20°	3926.0	3937.9	3941.9	3976.3	4043.9	4169.7	4376.3	4694.2	4733.9	5194.9	5520.8
22.5°	4016.1	4017.4	4002.8	3990.9	4017.4	4122.0	4311.4	4626.7	4673.0	5173.8	5526.0
25°	4155.1	4178.9	4157.8	4102.1	4053.1	4103.5	4286.3	4589.6	4633.3	5143.2	5519.4
27.5°	4380.3	4384.3	4367.0	4291.5	4164.4	4127.3	4275.6	4561.8	4598.9	5120.7	5486.3
30°	4682.3	4670.4	4654.5	4571.1	4371.0	4218.7	4298.2	4536.6	4575.0	5087.6	5446.5
32.5°	4988.3	5025.4	5010.8	4912.8	4653.1	4396.2	4371.0	4534.0	4565.8	5062.5	5402.9
35°	5312.8	5330.0	5398.9	5348.6	5082.3	4683.6	4507.5	4575.0	4600.2	5063.8	5372.4
37.5°	5567.1	5613.5	5775.1	5818.8	5568.5	5063.8	4728.7	4691.6	4702.1	5128.7	5384.3
40°	5874.4	5953.9	6161.8	6340.7	6176.4	5557.8	5104.8	4907.5	4920.8	5285.0	5462.4
42.5°	6263.8	6319.4	6599.0	6841.3	6814.8	6210.8	5560.5	5261.1	5267.8	5596.3	5681.1
45°	6719.5	6798.9	7112.9	7477.1	7539.4	6950.0	6218.8	5796.2	5792.3	6079.7	6089.0
47.5°	7302.3	7351.3	7662.6	8059.9	8311.6	7878.5	7017.5	6564.5	6522.1	6784.4	6708.9
50°	7838.7	7915.6	8151.3	8585.8	9212.3	8965.9	8067.9	7560.6	7461.2	7706.3	7579.1
52.5°	8063.9	8144.7	8343.4	8882.5	9984.5	10372.6	9401.7	8748.7	8583.1	8771.2	8724.9
55°	7673.2	7777.8	7963.3	8618.9	10323.6	11995.2	11200.4	10122.2	10001.7	9920.9	9934.2
57.5°	6622.8	6722.1	6972.5	7695.6	9918.3	13172.7	13768.7	11887.9	11629.6	11257.4	11321.0
60°	5041.3	5103.5	5233.3	6034.7	8716.9	13478.7	16685.4	14119.8	13955.5	12588.6	12633.6
62.5°	3580.3	3650.5	3740.5	4140.6	6381.7	12616.4	18969.0	17236.4	16649.7	13967.5	13923.8
65°	2907.4	2859.8	2968.4	3155.1	3744.5	9777.9	19482.9	21562.5	20754.5	15783.4	15176.7
67.5°	2390.8	2340.5	2447.8	2780.3	2847.8	5675.7	17631.2	24370.5	24209.0	17758.4	16449.7
69°	2116.6	2090.1	2184.2	2563.0	2733.9	4030.6	15359.6	24761.3	24799.6	18922.6	16645.7
70°	1907.4	1918.0	2009.3	2453.1	2682.2	3323.3	13127.7	24222.2	24548.0	19504.1	16433.8
72.5°	1404.0	1426.5	1553.7	2031.9	2633.2	2820.0	7812.2	21157.1	21733.3	19538.5	15033.7
75°	981.5	970.9	1083.5	1529.8	2487.5	2794.8	4588.3	16362.3	17015.2	16888.1	12632.3
77.5°	642.4	659.6	749.7	1080.9	2092.8	2773.6	2990.8	11608.4	12032.3	11294.5	7471.9
80°	453.0	451.7	502.0	737.7	1552.4	2665.0	2449.1	7316.8	7209.6	4438.6	2216.0
82.5°	259.6	278.1	336.5	519.2	1038.4	2345.8	2253.1	3499.5	3194.8	1264.9	748.4
85°	144.4	151.0	200.0	313.9	606.7	1767.0	1967.0	1592.2	1502.0	528.5	321.9
87.5°	46.4	50.3	83.5	158.9	275.5	834.4	1114.0	735.2	678.2	190.7	129.8
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°	5523.4	5523.4	5523.4	5523.4	5523.4	5523.4	5523.4	5523.4	5523.4	5523.4	5523.4
2.5°	5531.3	5547.2	5504.9	5463.8	5426.7	5375.1	5328.7	5290.3	5263.8	5259.8	5246.6
5°	5549.9	5551.2	5470.4	5361.8	5255.8	5139.3	5018.7	4932.7	4851.9	4806.8	4784.3
7.5°	5563.1	5551.2	5405.5	5229.3	5025.4	4813.4	4601.5	4431.9	4300.9	4249.2	4269.1
10°	5557.8	5520.8	5307.5	5025.4	4728.7	4412.1	4107.5	3869.0	3650.5	3537.9	3540.6
12.5°	5528.7	5467.8	5161.8	4796.2	4360.4	3936.6	3470.3	3148.4	2895.5	2745.8	2699.5
15°	5503.6	5397.5	4990.9	4484.9	3943.2	3337.9	2769.6	2372.3	2160.4	2042.5	2041.1
17.5°	5477.0	5330.0	4804.2	4155.1	3463.7	2684.9	2088.8	1785.5	1686.2	1698.1	1678.2
20°	5449.2	5250.6	4609.4	3788.2	2879.6	2002.8	1564.3	1441.1	1468.9	1523.2	1531.2
22.5°	5417.4	5165.8	4400.1	3384.2	2265.0	1507.4	1268.9	1250.4	1321.9	1406.7	1418.6
25°	5368.4	5059.8	4136.6	2961.7	1747.1	1214.6	1111.3	1124.5	1194.8	1266.3	1274.3
27.5°	5299.6	4928.7	3870.4	2434.5	1312.6	1042.4	1015.9	1033.2	1067.6	1111.3	1121.9
30°	5206.8	4780.3	3564.4	1978.9	1051.7	956.4	945.7	955.0	974.8	993.4	998.7
32.5°	5114.1	4637.2	3255.8	1515.3	937.8	899.4	888.8	888.8	888.8	891.4	892.8
35°	5028.0	4502.2	2924.6	1180.2	878.2	854.3	839.8	823.9	821.2	812.0	812.0
37.5°	4980.3	4379.0	2572.3	988.1	834.4	817.2	797.4	770.9	756.3	757.6	755.0
40°	4989.6	4298.2	2251.8	879.5	798.7	780.2	749.7	719.3	709.9	709.9	707.3
42.5°	5094.3	4271.7	1944.4	822.5	764.3	743.1	704.7	676.8	671.6	670.2	672.9
45°	5335.3	4336.6	1669.0	785.4	735.2	703.4	664.9	639.8	634.5	634.5	633.1
47.5°	5805.6	4547.2	1471.6	761.6	713.9	672.9	633.1	608.0	598.7	596.0	596.0
50°	6536.7	5004.2	1324.5	740.4	687.5	645.0	604.0	574.9	560.3	559.0	557.7
52.5°	7552.6	5716.8	1267.6	724.5	658.3	615.9	570.9	543.1	524.5	520.5	517.9
55°	8740.8	6711.6	1345.7	712.6	627.8	582.8	536.4	507.3	490.1	482.2	480.8
57.5°	10117.0	7906.3	1642.4	696.7	600.0	547.0	502.0	472.9	454.3	445.1	442.4
60°	11352.8	9134.2	2160.4	687.5	576.2	508.6	462.3	435.8	418.6	409.3	407.9
62.5°	12710.4	10305.1	2778.9	712.6	565.6	471.5	425.2	401.4	386.8	377.5	377.5
65°	14160.9	11477.3	3188.2	797.4	581.5	442.4	385.5	365.6	352.4	345.7	344.4
67.5°	15138.4	11882.6	2626.6	884.8	621.2	410.6	347.0	331.1	323.2	316.6	316.6
69°	15032.4	11370.0	1937.8	907.3	633.1	394.7	325.8	313.9	303.3	300.7	298.0
70°	14697.3	10785.8	1623.9	892.8	623.9	380.1	312.6	298.0	288.8	286.1	284.8
72.5°	13090.6	9354.0	1209.3	776.2	531.1	329.8	276.9	263.6	255.6	251.7	251.7
75°	10875.9	7645.4	944.4	617.2	415.9	278.1	237.1	226.5	219.9	217.2	215.9
77.5°	6095.6	4269.1	678.2	483.4	315.2	225.2	198.6	189.4	182.8	180.2	180.2
80°	1698.1	1219.9	398.7	319.2	214.5	170.9	157.6	151.0	141.7	135.1	139.1
82.5°	639.8	528.5	227.9	192.1	136.4	113.9	109.9	104.6	100.7	91.4	91.4
85°	311.2	257.0	145.7	102.0	75.5	59.6	56.9	54.3	51.7	45.0	46.4
87.5°	107.3	113.9	63.6	37.1	22.6	14.6	11.9	6.7	6.7	6.7	6.7
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)