

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: P453679

Luminaire Tested: **GALN-SA4D-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25367 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

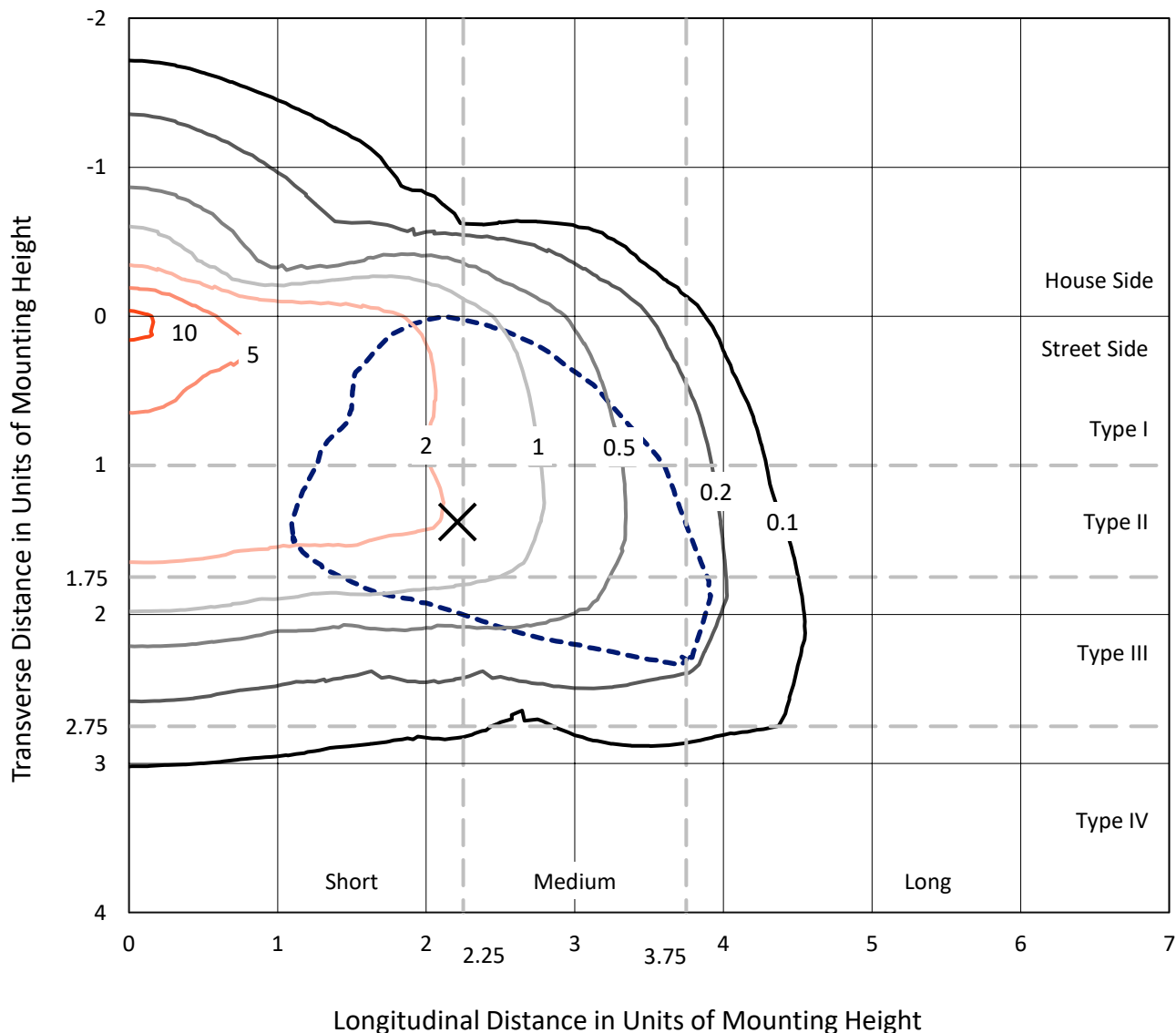
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

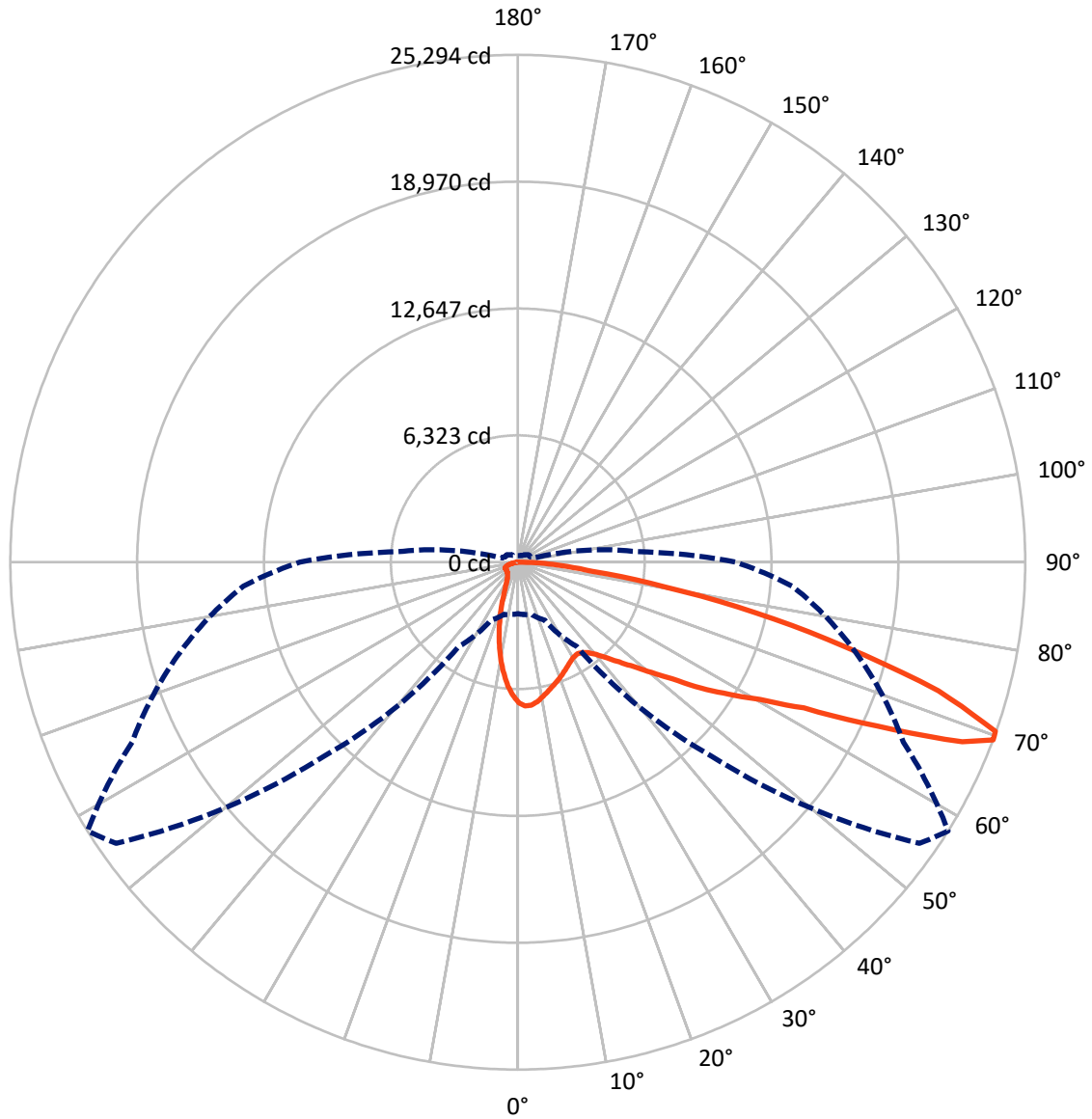
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3717.5	0.0	3717.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	21649.5	0.0	21649.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	25367.0	0.0	25367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.3	2.3
10°-20°	1307.2	5.2
20°-30°	1688.9	6.7
30°-40°	2193.6	8.6
40°-50°	3189.2	12.6
50°-60°	5088.9	20.1
60°-70°	6798.1	26.8
70°-80°	3918.8	15.4
80°-90°	587.0	2.3
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°	25367.0	100.0
0°-180°	25367.0	100.0

Coefficient of Utilization



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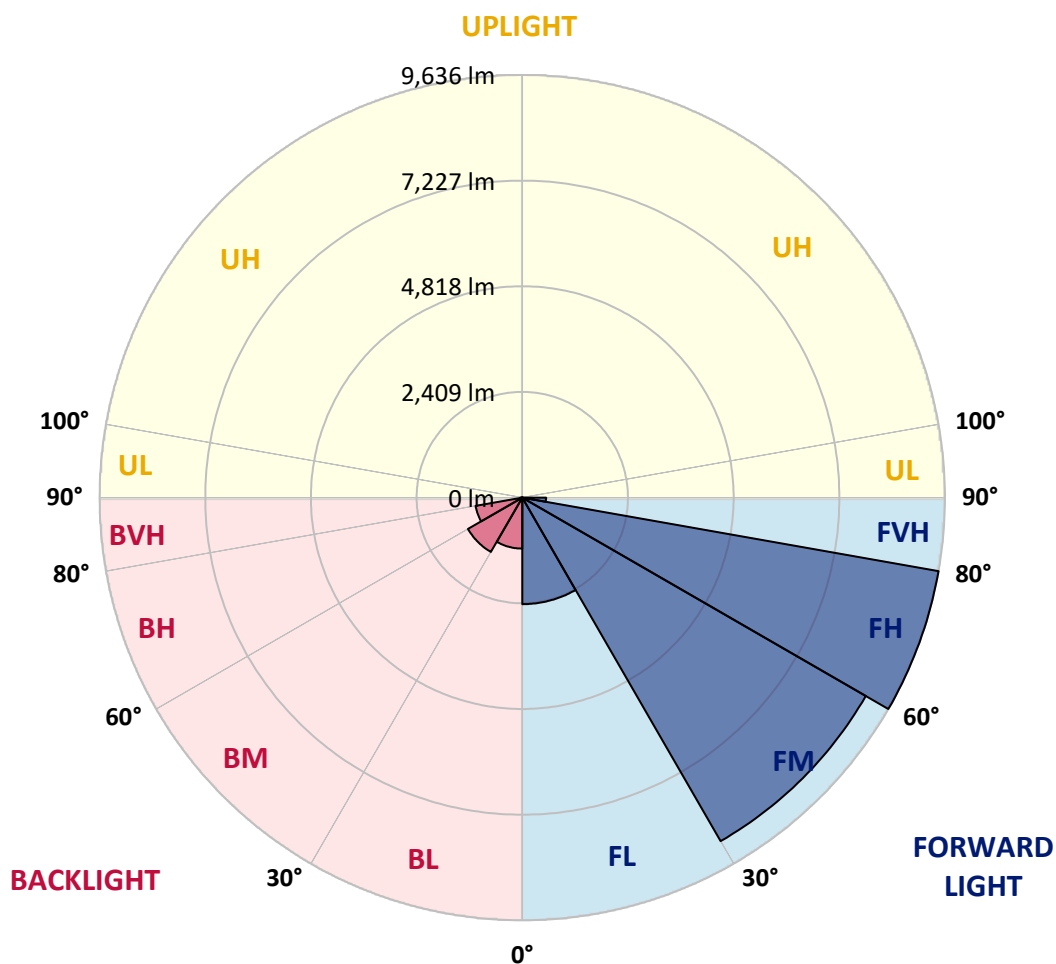
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2429.5	9.6			
FM	(30°-60°)	9042.0	35.6			
FH	(60°-80°)	9635.9	38.0			G4/12000
FVH	(80°-90°)	542.0	2.1			G4/750
BL	(0°-30°)	1161.9	4.6	B3/2500		
BM	(30°-60°)	1429.6	5.6	B2/2500		
BH	(60°-80°)	1081.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	45.0	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7010.0	7010.0	7010.0	7010.0	7010.0	7010.0	7010.0	7010.0	7010.0	7010.0	7010.0
2.5°	7270.3	7290.1	7284.4	7277.3	7266.0	7234.9	7184.0	7175.5	7142.9	7073.6	6987.3
5°	7158.5	7175.5	7176.9	7186.8	7200.9	7195.3	7158.5	7154.3	7106.2	7012.8	6868.5
7.5°	6775.1	6797.7	6847.3	6902.4	6952.0	6998.6	7010.0	7017.0	6987.3	6879.8	6687.4
10°	6343.6	6366.3	6388.9	6470.9	6592.6	6708.6	6804.8	6817.6	6824.6	6725.6	6490.8
12.5°	5865.4	5912.1	5960.2	6081.9	6244.6	6427.1	6596.9	6623.7	6671.8	6596.9	6321.0
15°	5459.4	5507.5	5576.8	5685.8	5882.4	6145.6	6384.6	6428.5	6523.3	6485.1	6162.5
17.5°	5177.9	5194.9	5243.0	5367.5	5579.7	5857.0	6176.7	6264.4	6415.8	6405.9	6026.7
20°	4955.8	4977.0	5006.7	5083.1	5303.8	5596.6	5982.9	6096.0	6301.2	6335.1	5892.3
22.5°	4862.4	4878.0	4873.7	4914.7	5064.7	5359.0	5786.2	5920.6	6199.3	6287.0	5767.8
25°	4868.1	4882.2	4861.0	4851.1	4940.2	5149.6	5581.1	5752.3	6117.3	6254.5	5654.6
27.5°	4962.8	4972.8	4933.1	4893.5	4900.6	5019.4	5411.3	5600.9	6047.9	6268.6	5559.9
30°	5090.2	5108.6	5083.1	5035.0	4982.7	4988.3	5302.4	5489.1	6015.4	6318.2	5514.6
32.5°	5254.3	5271.3	5259.9	5221.7	5153.8	5078.9	5275.5	5448.1	6018.2	6418.6	5504.7
35°	5426.9	5460.8	5479.2	5476.4	5421.2	5291.1	5381.6	5524.5	6086.1	6587.0	5562.7
37.5°	5622.1	5650.4	5729.6	5780.6	5729.6	5578.3	5620.7	5719.7	6236.1	6830.3	5690.0
40°	5811.7	5854.1	5970.1	6128.6	6108.8	5975.8	5985.7	6050.8	6500.7	7192.5	5939.0
42.5°	6009.7	6060.7	6263.0	6497.8	6544.5	6441.2	6468.1	6526.1	6877.0	7694.7	6366.3
45°	6264.4	6325.2	6574.2	6867.1	7051.0	6987.3	7063.7	7092.0	7380.6	8348.3	6929.3
47.5°	6592.6	6663.3	6970.3	7335.3	7595.6	7653.7	7786.6	7769.7	8004.5	9122.1	7659.3
50°	7145.8	7185.4	7475.4	7847.5	8205.4	8467.1	8611.4	8638.3	8778.4	9874.8	8475.6
52.5°	7803.6	7839.0	8048.4	8373.7	8822.2	9376.8	9733.3	9645.6	9679.5	10791.5	9430.5
55°	8543.5	8602.9	8735.9	8952.4	9533.8	10350.1	11066.0	11087.2	10710.9	11668.6	10345.9
57.5°	9116.5	9216.9	9444.7	9753.1	10490.2	11432.4	12394.4	12408.5	11927.5	12605.2	11356.0
60°	8827.9	8946.7	9467.3	10218.5	11745.0	13321.0	13981.7	13901.1	13111.7	13671.9	12588.2
62.5°	7582.9	7604.1	8361.0	9535.2	12131.3	15847.7	16344.3	16003.3	14691.9	15024.4	13840.2
65°	4907.7	5046.3	5646.2	7291.5	10862.2	17249.7	20483.8	19695.8	16907.4	16559.3	14888.5
67.5°	3098.2	3062.9	3311.9	4163.5	7471.2	16014.7	24016.3	23891.8	19804.7	17528.4	14638.1
69°	2569.1	2608.7	2693.6	3191.6	5141.1	13673.3	24433.7	25293.8	21209.5	17452.0	13728.5
70°	2330.0	2348.4	2437.6	2829.4	3966.9	11452.2	23749.0	25255.6	21761.3	17132.3	13069.2
72.5°	1849.0	1847.6	2000.4	2354.1	2965.3	6537.4	19500.5	21926.8	21144.5	15644.0	10798.6
75°	1404.8	1427.5	1595.8	1991.9	2731.8	3572.2	13608.2	16886.1	16887.6	12356.2	6738.3
77.5°	1012.9	1027.1	1223.7	1672.2	2573.4	2895.9	9064.1	12111.4	11385.7	5661.7	2117.8
80°	663.5	672.0	822.0	1324.2	2320.1	2731.8	5374.5	7413.1	5370.3	1502.4	700.3
82.5°	363.6	406.0	502.2	857.3	1861.8	2523.9	3266.6	3751.8	2014.6	669.2	365.0
85°	182.5	193.8	282.9	500.8	1216.7	2088.1	2274.9	2151.8	1039.8	332.5	189.6
87.5°	53.8	67.9	117.4	193.8	493.7	1087.9	1266.2	1136.0	400.4	120.3	39.6
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°	7010.0	7010.0	7010.0	7010.0	7010.0	7010.0	7010.0	7010.0	7010.0	7010.0	7010.0
2.5°	6952.0	6926.5	6813.3	6711.4	6618.1	6519.0	6435.6	6362.0	6369.1	6370.5	6295.5
5°	6793.5	6735.5	6520.5	6319.6	6149.8	5934.8	5750.9	5632.0	5572.6	5493.4	5521.7
7.5°	6578.5	6466.7	6168.2	5834.3	5521.7	5243.0	4940.2	4732.2	4599.3	4470.5	4487.5
10°	6356.4	6176.7	5742.4	5301.0	4896.4	4450.7	4064.5	3733.5	3487.3	3395.3	3334.5
12.5°	6128.6	5892.3	5340.6	4753.5	4194.7	3661.3	3113.8	2758.7	2487.1	2342.8	2361.2
15°	5920.6	5633.4	4921.8	4206.0	3480.2	2845.0	2298.9	1960.8	1771.2	1731.6	1754.3
17.5°	5728.2	5351.9	4529.9	3674.0	2826.6	2133.4	1727.4	1536.4	1460.0	1438.8	1437.4
20°	5530.2	5112.8	4090.0	3105.3	2202.7	1653.8	1417.6	1328.4	1314.3	1322.8	1324.2
22.5°	5329.3	4817.1	3637.3	2540.8	1754.3	1352.5	1239.3	1215.2	1226.6	1246.4	1249.2
25°	5143.9	4556.8	3201.5	2045.7	1400.6	1188.4	1133.2	1133.2	1158.7	1188.4	1189.8
27.5°	4991.1	4305.0	2767.2	1624.1	1172.8	1069.5	1051.1	1061.0	1096.4	1119.0	1120.5
30°	4865.2	4070.2	2356.9	1301.5	1031.3	974.7	970.5	987.5	1012.9	1034.2	1035.6
32.5°	4770.4	3863.6	1973.5	1093.6	933.7	902.6	901.2	913.9	928.1	933.7	939.4
35°	4733.7	3692.4	1622.7	962.0	868.6	848.8	848.8	847.4	853.1	855.9	858.7
37.5°	4763.4	3560.9	1351.1	877.1	820.5	806.4	797.9	789.4	786.6	786.6	788.0
40°	4889.3	3491.5	1148.8	822.0	786.6	765.4	749.8	739.9	730.0	732.8	735.7
42.5°	5156.7	3504.3	1011.5	785.2	756.9	727.2	704.5	693.2	686.1	694.6	693.2
45°	5582.5	3631.6	923.8	759.7	727.2	689.0	667.7	656.4	656.4	669.2	673.4
47.5°	6178.1	3874.9	877.1	739.9	704.5	659.3	638.0	629.6	632.4	653.6	655.0
50°	6905.3	4297.9	868.6	730.0	693.2	638.0	614.0	605.5	612.6	635.2	638.0
52.5°	7707.4	4842.6	909.7	731.4	683.3	625.3	594.2	581.5	588.5	606.9	612.6
55°	8658.1	5524.5	1015.8	737.1	669.2	618.2	580.0	551.7	560.2	573.0	574.4
57.5°	9628.6	6384.6	1202.5	738.5	657.8	605.5	556.0	519.2	519.2	527.7	531.9
60°	10814.1	7321.2	1448.7	739.9	659.3	587.1	523.4	482.4	476.8	481.0	482.4
62.5°	11991.2	8104.9	1489.7	735.7	673.4	568.7	488.1	445.6	435.7	434.3	431.5
65°	12510.4	7959.2	1220.9	715.8	689.0	557.4	459.8	410.3	393.3	387.6	387.6
67.5°	11664.4	6732.7	918.2	689.0	679.1	546.1	432.9	380.6	360.8	349.4	349.4
69°	10869.3	5988.5	824.8	670.6	653.6	527.7	415.9	365.0	340.9	328.2	324.0
70°	10255.3	5476.4	785.2	655.0	629.6	506.5	403.2	353.7	326.8	312.7	309.8
72.5°	8184.2	4296.5	687.6	595.6	536.2	425.8	357.9	318.3	292.8	277.3	273.0
75°	4716.7	2328.6	570.1	517.8	431.5	331.0	302.8	277.3	257.5	243.3	239.1
77.5°	1451.5	899.8	413.1	408.9	316.9	256.1	241.9	232.0	217.9	202.3	199.5
80°	611.2	458.4	280.1	275.9	210.8	178.3	174.0	172.6	166.9	154.2	150.0
82.5°	335.3	258.9	195.2	169.8	127.3	103.3	107.5	108.9	104.7	92.0	83.5
85°	164.1	141.5	94.8	76.4	58.0	36.8	35.4	42.4	39.6	28.3	31.1
87.5°	32.5	39.6	25.5	11.3	5.7	0.0	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)