

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: P453940

Luminaire Tested: **GALN-SA5A-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453940
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-SA5A-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 20673 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

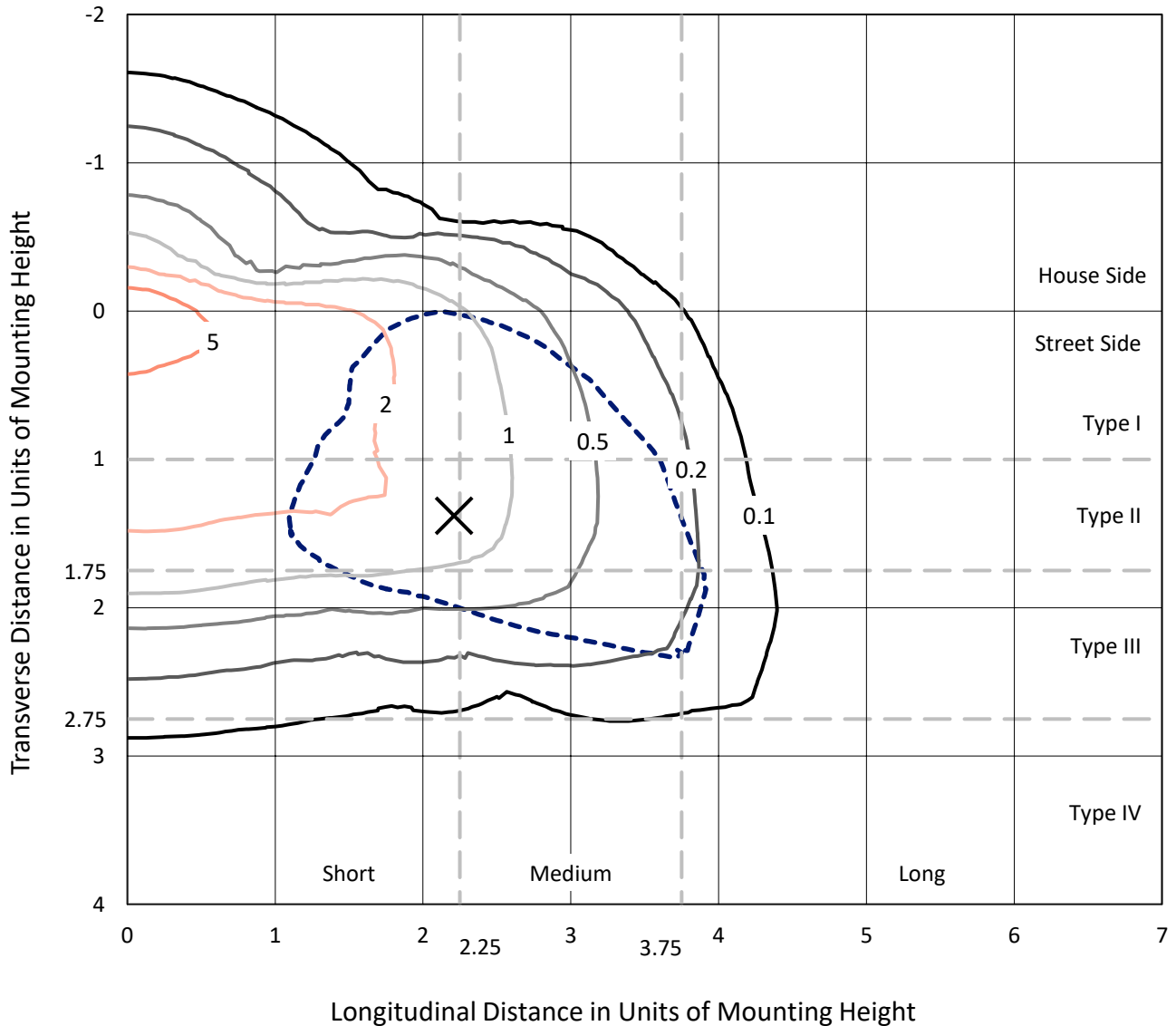
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

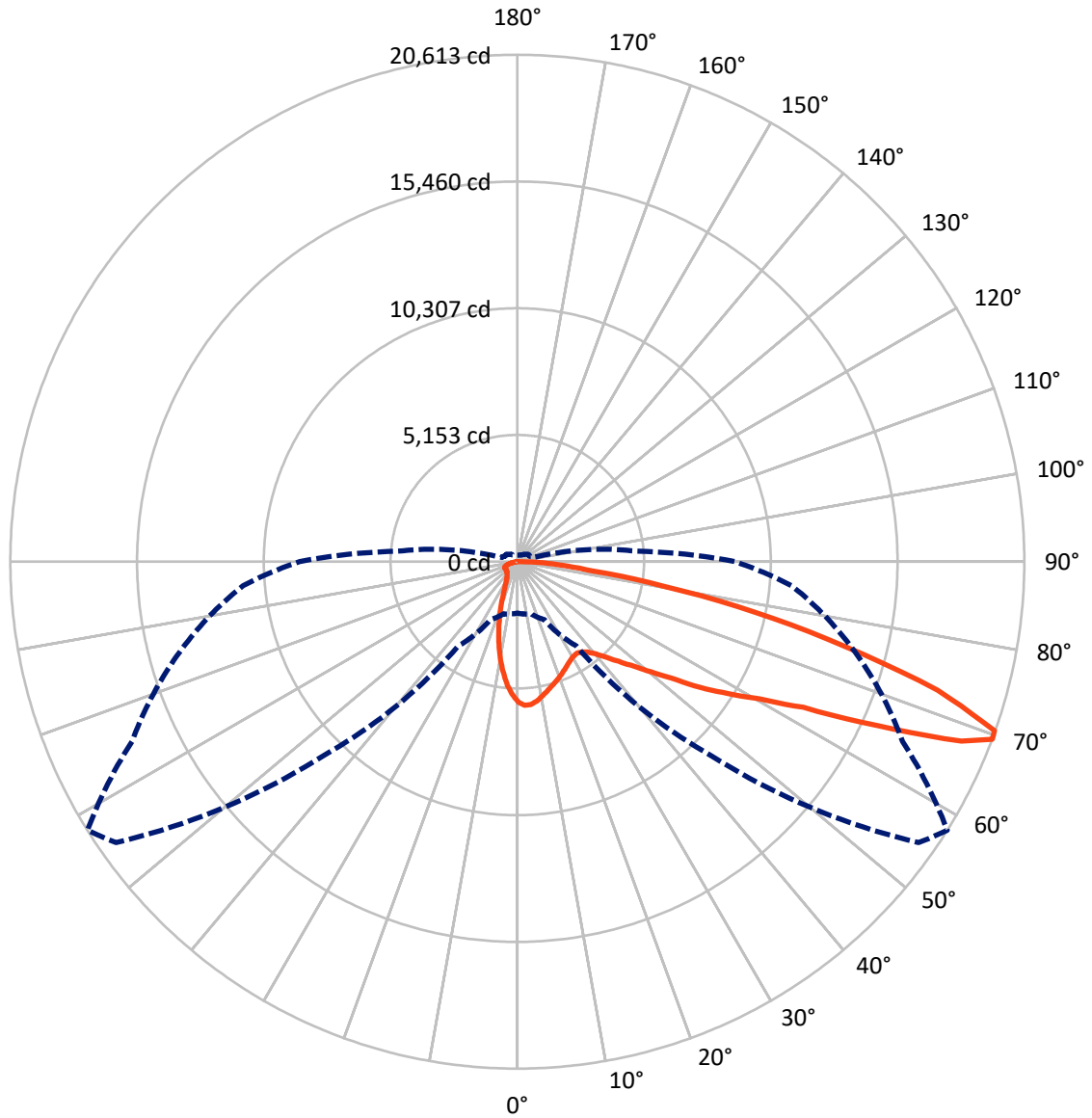
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	3029.6	0.0	3029.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	17643.4	0.0	17643.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	20673.0	0.0	20673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.2	2.3
10°-20°	1065.3	5.2
20°-30°	1376.4	6.7
30°-40°	1787.7	8.6
40°-50°	2599.0	12.6
50°-60°	4147.2	20.1
60°-70°	5540.2	26.8
70°-80°	3193.7	15.4
80°-90°	478.3	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°	20673.0	100.0
0°-180°	20673.0	100.0

Coefficient of Utilization



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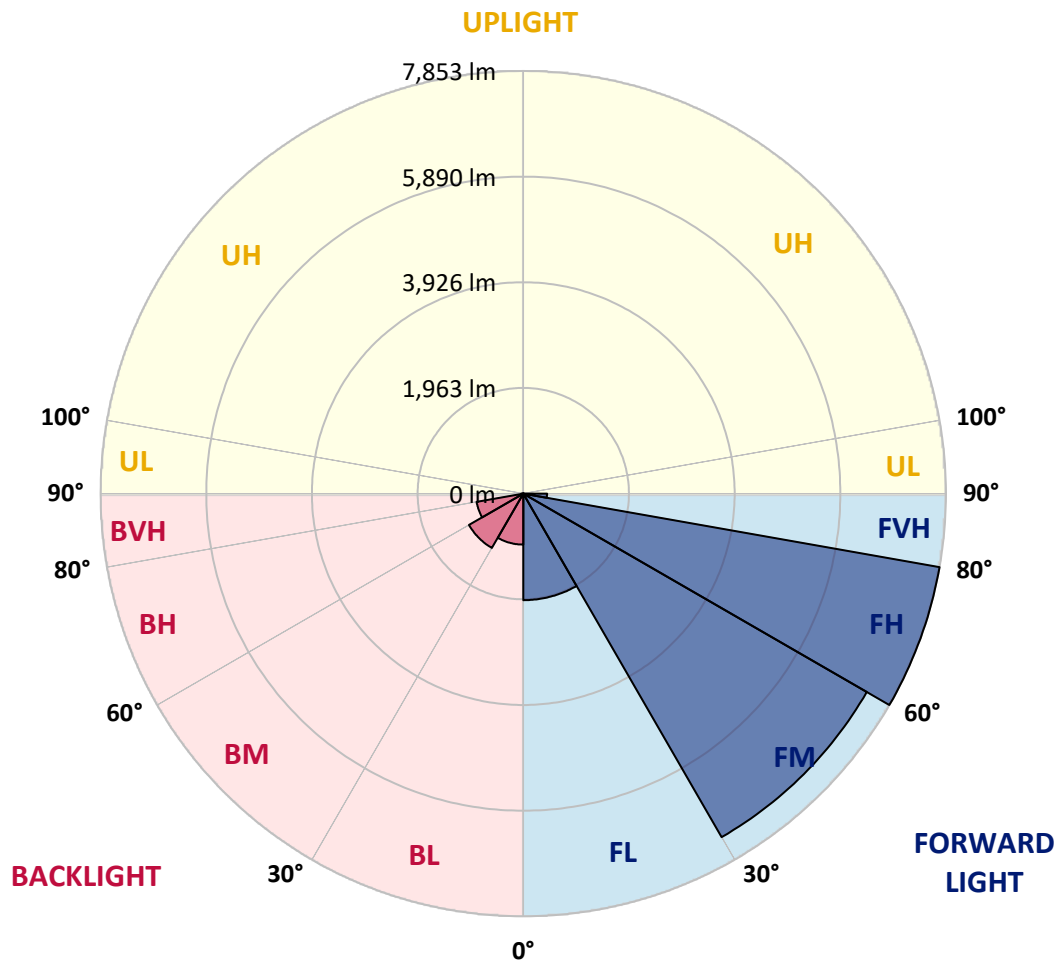
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1979.9	9.6			
FM	(30°-60°)	7368.8	35.6			
FH	(60°-80°)	7852.9	38.0			G4/12000
FVH	(80°-90°)	441.7	2.1			G3/500
BL	(0°-30°)	946.9	4.6	B2/1000		
BM	(30°-60°)	1165.1	5.6	B2/2500		
BH	(60°-80°)	881.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	36.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5712.8	5712.8	5712.8	5712.8	5712.8	5712.8	5712.8	5712.8	5712.8	5712.8	5712.8
2.5°	5924.9	5941.1	5936.5	5930.7	5921.5	5896.1	5854.6	5847.7	5821.2	5764.7	5694.4
5°	5833.9	5847.7	5848.9	5856.9	5868.5	5863.8	5833.9	5830.4	5791.2	5715.1	5597.5
7.5°	5521.4	5539.9	5580.2	5625.2	5665.5	5703.6	5712.8	5718.6	5694.4	5606.7	5449.9
10°	5169.8	5188.2	5206.7	5273.5	5372.7	5467.2	5545.6	5556.0	5561.8	5481.1	5289.7
12.5°	4780.1	4818.1	4857.3	4956.5	5089.1	5237.8	5376.1	5398.1	5437.3	5376.1	5151.3
15°	4449.2	4488.4	4544.9	4633.7	4793.9	5008.4	5203.2	5238.9	5316.2	5285.1	5022.2
17.5°	4219.8	4233.6	4272.8	4374.2	4547.2	4773.2	5033.7	5105.2	5228.6	5220.5	4911.5
20°	4038.7	4056.0	4080.2	4142.5	4322.4	4561.0	4875.8	4968.0	5135.2	5162.9	4802.0
22.5°	3962.6	3975.3	3971.9	4005.3	4127.5	4367.3	4715.5	4825.0	5052.2	5123.7	4700.5
25°	3967.3	3978.8	3961.5	3953.4	4026.1	4196.7	4548.3	4687.8	4985.3	5097.1	4608.3
27.5°	4044.5	4052.6	4020.3	3988.0	3993.8	4090.6	4410.0	4564.5	4928.8	5108.7	4531.0
30°	4148.3	4163.3	4142.5	4103.3	4060.6	4065.3	4321.2	4473.4	4902.3	5149.0	4494.2
32.5°	4282.0	4295.8	4286.6	4255.5	4200.2	4139.0	4299.3	4440.0	4904.6	5230.9	4486.1
35°	4422.7	4450.3	4465.3	4463.0	4418.1	4312.0	4385.8	4502.2	4959.9	5368.1	4533.4
37.5°	4581.8	4604.8	4669.4	4710.9	4669.4	4546.0	4580.6	4661.3	5082.1	5566.4	4637.1
40°	4736.3	4770.9	4865.4	4994.5	4978.4	4870.0	4878.1	4931.1	5297.7	5861.5	4840.0
42.5°	4897.7	4939.2	5104.1	5295.4	5333.5	5249.3	5271.2	5318.5	5604.4	6270.8	5188.2
45°	5105.2	5154.8	5357.7	5596.4	5746.2	5694.4	5756.6	5779.7	6014.9	6803.5	5647.1
47.5°	5372.7	5430.3	5680.5	5978.0	6190.1	6237.4	6345.8	6331.9	6523.3	7434.1	6242.0
50°	5823.5	5855.8	6092.1	6395.3	6687.0	6900.3	7017.9	7039.8	7154.0	8047.5	6907.3
52.5°	6359.6	6388.4	6559.1	6824.2	7189.7	7641.7	7932.2	7860.7	7888.4	8794.6	7685.5
55°	6962.6	7011.0	7119.4	7295.8	7769.6	8434.9	9018.3	9035.6	8728.9	9509.4	8431.4
57.5°	7429.5	7511.4	7697.0	7948.4	8549.0	9316.9	10100.9	10112.4	9720.4	10272.7	9254.6
60°	7194.3	7291.2	7715.5	8327.7	9571.7	10856.1	11394.5	11328.8	10685.4	11142.0	10258.8
62.5°	6179.7	6197.0	6813.9	7770.8	9886.4	12915.2	13319.9	13042.0	11973.3	12244.2	11279.2
65°	3999.5	4112.5	4601.4	5942.2	8852.3	14057.8	16693.4	16051.2	13778.8	13495.1	12133.5
67.5°	2524.9	2496.1	2699.0	3393.1	6088.7	13051.3	19572.3	19470.8	16140.0	14284.9	11929.4
69°	2093.7	2126.0	2195.2	2601.0	4189.8	11143.1	19912.4	20613.4	17284.8	14222.6	11188.1
70°	1898.9	1913.9	1986.5	2305.9	3232.8	9333.0	19354.4	20582.2	17734.5	13962.1	10650.8
72.5°	1506.9	1505.7	1630.3	1918.5	2416.6	5327.7	15892.1	17869.4	17231.8	12749.2	8800.4
75°	1144.9	1163.3	1300.5	1623.3	2226.3	2911.2	11090.1	13761.5	13762.6	10069.8	5491.4
77.5°	825.5	837.0	997.3	1362.8	2097.2	2360.1	7386.9	9870.3	9278.8	4614.1	1725.9
80°	540.7	547.6	669.9	1079.1	1890.8	2226.3	4380.0	6041.4	4376.6	1224.4	570.7
82.5°	296.3	330.9	409.3	698.7	1517.3	2056.8	2662.1	3057.6	1641.8	545.3	297.5
85°	148.7	158.0	230.6	408.1	991.5	1701.7	1853.9	1753.6	847.4	270.9	154.5
87.5°	43.8	55.3	95.7	158.0	402.4	886.6	1031.9	925.8	326.3	98.0	32.3
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°	5712.8	5712.8	5712.8	5712.8	5712.8	5712.8	5712.8	5712.8	5712.8	5712.8	5712.8
2.5°	5665.5	5644.8	5552.5	5469.5	5393.4	5312.7	5244.7	5184.8	5190.5	5191.7	5130.6
5°	5536.4	5489.1	5313.9	5150.2	5011.8	4836.6	4686.7	4589.8	4541.4	4476.9	4499.9
7.5°	5361.2	5270.1	5026.8	4754.7	4499.9	4272.8	4026.1	3856.6	3748.2	3643.3	3657.1
10°	5180.1	5033.7	4679.8	4320.1	3990.3	3627.1	3312.4	3042.6	2842.0	2767.1	2717.5
12.5°	4994.5	4802.0	4352.3	3873.9	3418.5	2983.8	2537.6	2248.2	2026.9	1909.3	1924.3
15°	4825.0	4591.0	4011.1	3427.7	2836.2	2318.6	1873.5	1598.0	1443.5	1411.2	1429.6
17.5°	4668.2	4361.6	3691.7	2994.2	2303.6	1738.6	1407.7	1252.1	1189.8	1172.5	1171.4
20°	4506.8	4166.7	3333.1	2530.7	1795.1	1347.8	1155.2	1082.6	1071.1	1078.0	1079.1
22.5°	4343.1	3925.8	2964.2	2070.7	1429.6	1102.2	1010.0	990.4	999.6	1015.7	1018.0
25°	4192.1	3713.6	2609.1	1667.1	1141.4	968.5	923.5	923.5	944.3	968.5	969.6
27.5°	4067.6	3508.4	2255.1	1323.6	955.8	871.6	856.6	864.7	893.5	912.0	913.1
30°	3965.0	3317.0	1920.8	1060.7	840.5	794.4	790.9	804.8	825.5	842.8	844.0
32.5°	3887.7	3148.7	1608.3	891.2	760.9	735.6	734.4	744.8	756.3	760.9	765.6
35°	3857.7	3009.2	1322.4	784.0	707.9	691.8	691.8	690.6	695.2	697.5	699.8
37.5°	3881.9	2901.9	1101.1	714.8	668.7	657.2	650.3	643.3	641.0	641.0	642.2
40°	3984.6	2845.5	936.2	669.9	641.0	623.7	611.1	603.0	594.9	597.2	599.5
42.5°	4202.5	2855.8	824.4	639.9	616.8	592.6	574.2	564.9	559.2	566.1	564.9
45°	4549.5	2959.6	752.9	619.1	592.6	561.5	544.2	535.0	535.0	545.3	548.8
47.5°	5034.9	3157.9	714.8	603.0	574.2	537.3	520.0	513.1	515.4	532.7	533.8
50°	5627.5	3502.6	707.9	594.9	564.9	520.0	500.4	493.5	499.2	517.7	520.0
52.5°	6281.2	3946.5	741.3	596.1	556.9	509.6	484.2	473.9	479.6	494.6	499.2
55°	7056.0	4502.2	827.8	600.7	545.3	503.8	472.7	449.6	456.6	466.9	468.1
57.5°	7846.9	5203.2	980.0	601.8	536.1	493.5	453.1	423.1	423.1	430.0	433.5
60°	8813.1	5966.5	1180.6	603.0	537.3	478.5	426.6	393.2	388.5	392.0	393.2
62.5°	9772.3	6605.2	1214.0	599.5	548.8	463.5	397.8	363.2	355.1	354.0	351.6
65°	10195.4	6486.4	995.0	583.4	561.5	454.3	374.7	334.4	320.5	315.9	315.9
67.5°	9506.0	5486.8	748.3	561.5	553.4	445.0	352.8	310.1	294.0	284.8	284.8
69°	8858.0	4880.4	672.2	546.5	532.7	430.0	339.0	297.5	277.9	267.5	264.0
70°	8357.6	4463.0	639.9	533.8	513.1	412.8	328.6	288.2	266.3	254.8	252.5
72.5°	6669.7	3501.5	560.3	485.4	437.0	347.0	291.7	259.4	238.7	226.0	222.5
75°	3843.9	1897.7	464.6	422.0	351.6	269.8	246.7	226.0	209.8	198.3	194.8
77.5°	1182.9	733.3	336.7	333.2	258.3	208.7	197.2	189.1	177.6	164.9	162.6
80°	498.1	373.6	228.3	224.8	171.8	145.3	141.8	140.7	136.0	125.7	122.2
82.5°	273.2	211.0	159.1	138.4	103.8	84.2	87.6	88.8	85.3	74.9	68.0
85°	133.7	115.3	77.2	62.3	47.3	30.0	28.8	34.6	32.3	23.1	25.4
87.5°	26.5	32.3	20.8	9.2	4.6	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)