

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: P453911

Luminaire Tested: **GALN-SA5A-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453911
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-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 18984 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

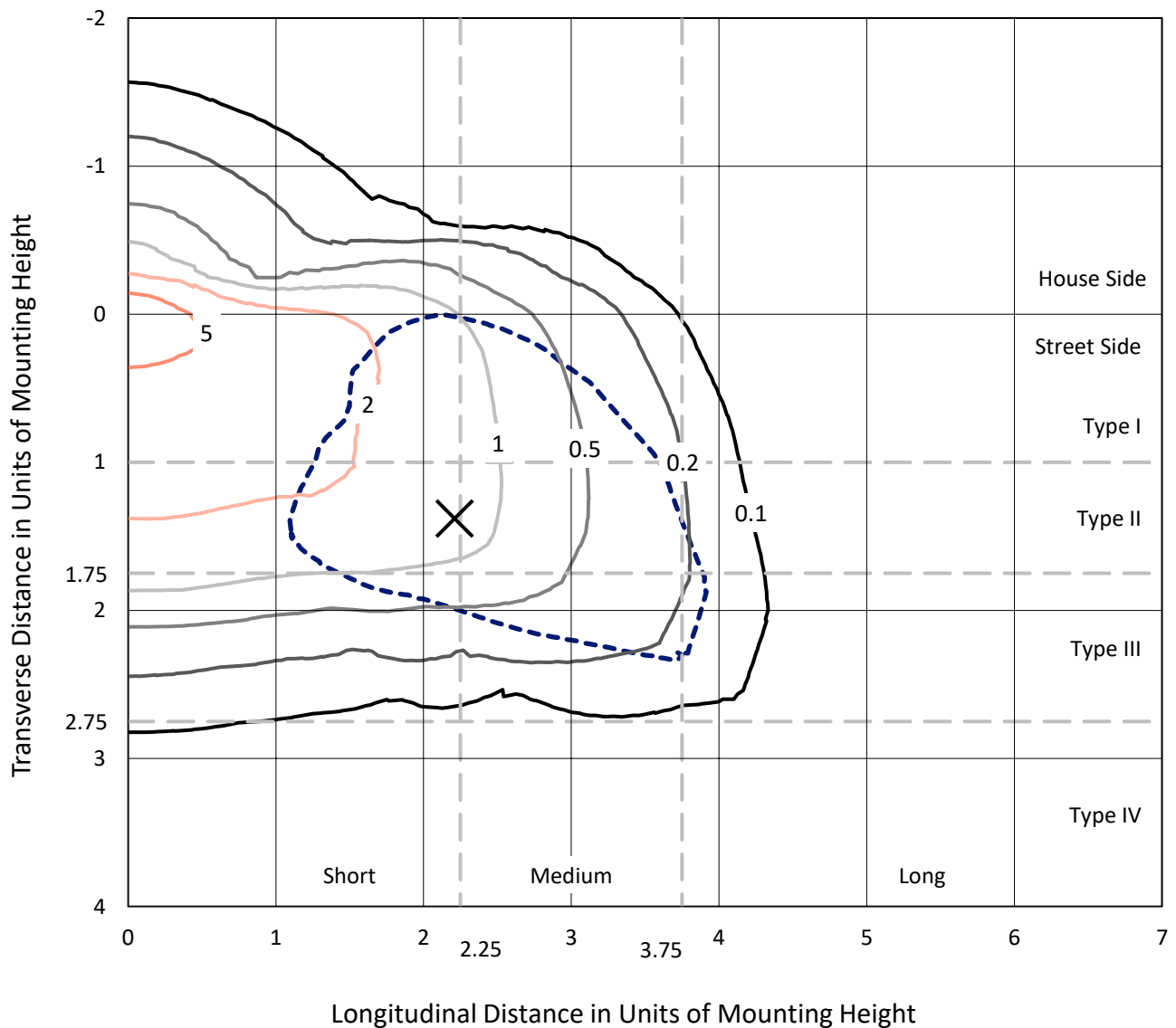
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

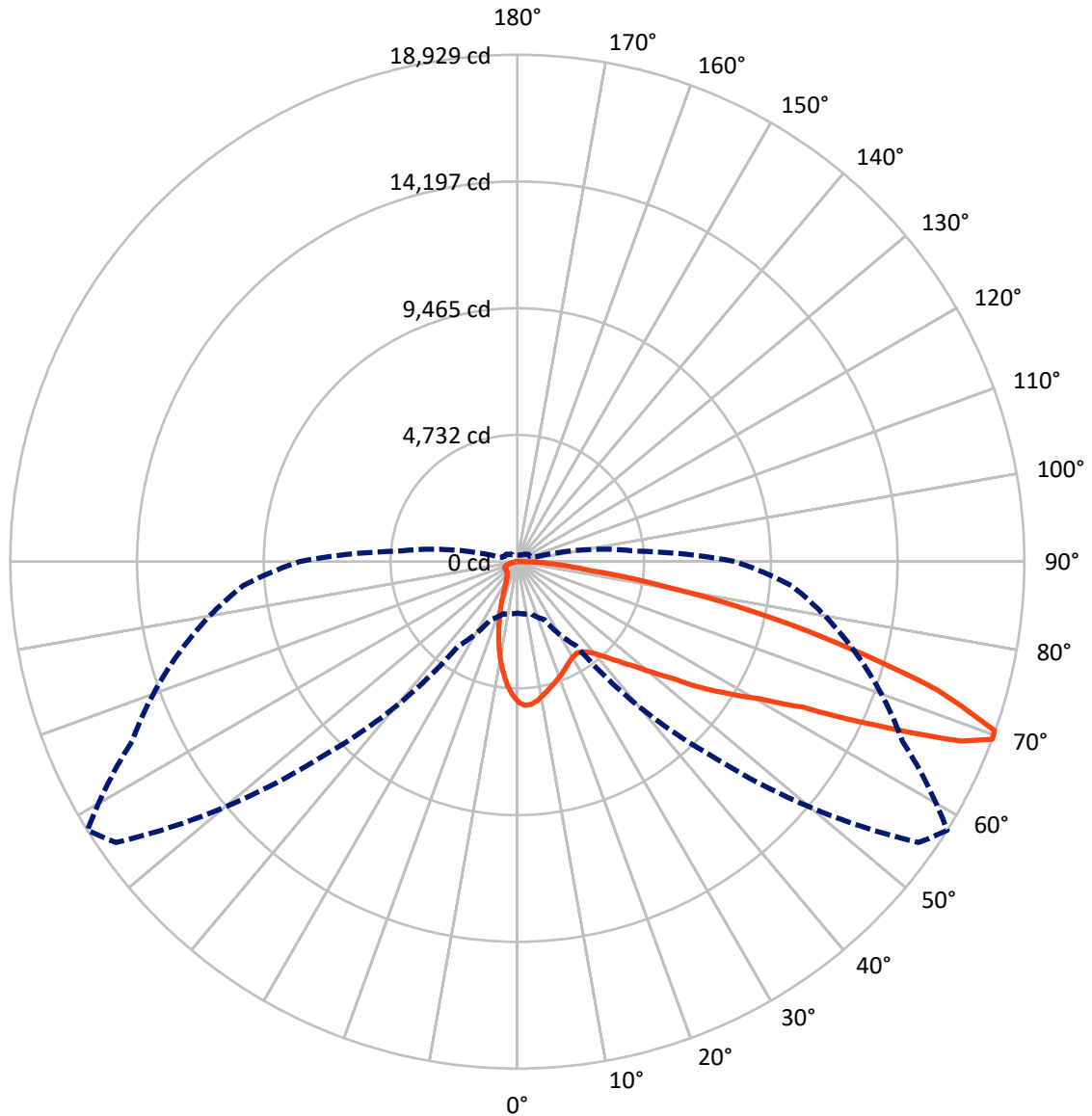
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	2782.1	0.0	2782.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16201.9	0.0	16201.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	18984.0	0.0	18984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.5	2.3
10°-20°	978.3	5.2
20°-30°	1264.0	6.7
30°-40°	1641.6	8.6
40°-50°	2386.7	12.6
50°-60°	3808.4	20.1
60°-70°	5087.5	26.8
70°-80°	2932.7	15.4
80°-90°	439.3	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°	18984.0	100.0
0°-180°	18984.0	100.0

Coefficient of Utilization



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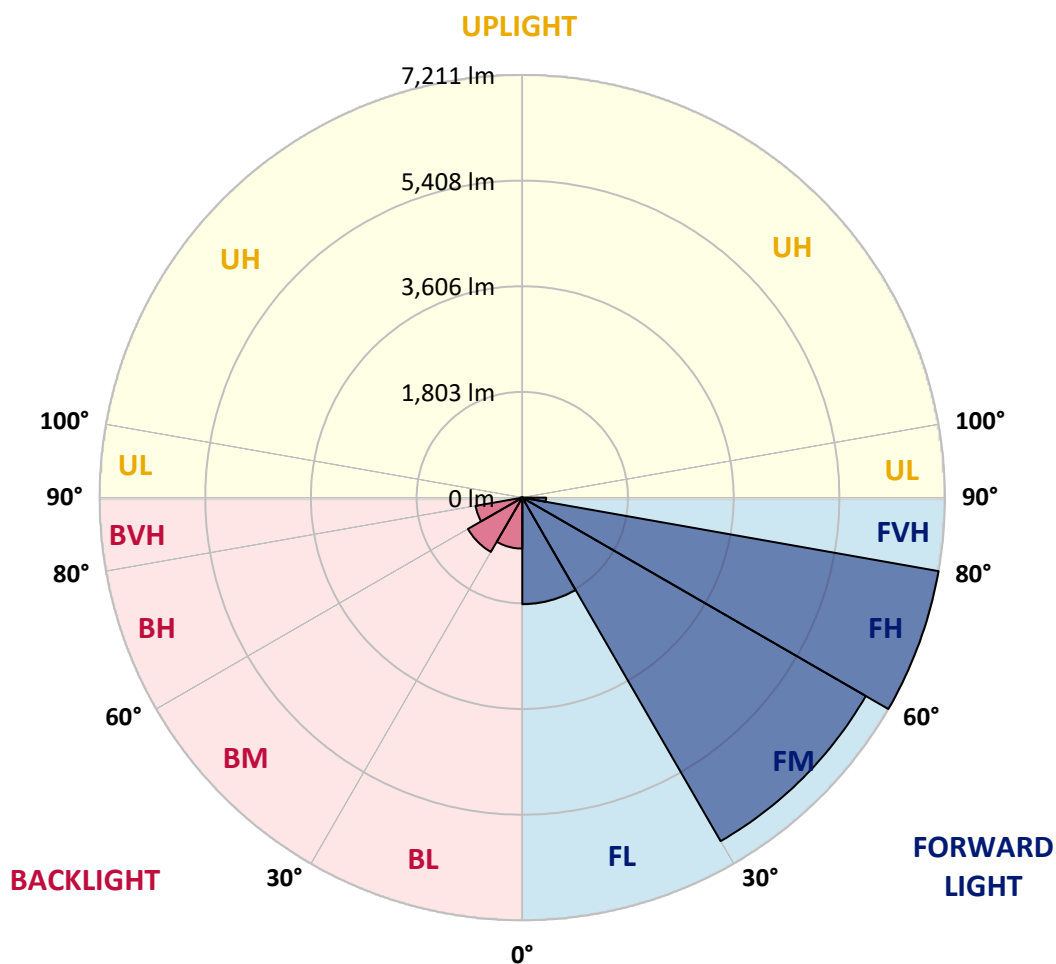
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1818.2	9.6			
FM	(30°-60°)	6766.8	35.6			
FH	(60°-80°)	7211.3	38.0			G3/7500
FVH	(80°-90°)	405.6	2.1			G3/500
BL	(0°-30°)	869.6	4.6	B2/1000		
BM	(30°-60°)	1069.9	5.6	B2/2500		
BH	(60°-80°)	809.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	33.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5246.1	5246.1	5246.1	5246.1	5246.1	5246.1	5246.1	5246.1	5246.1	5246.1	5246.1
2.5°	5440.9	5455.7	5451.5	5446.2	5437.7	5414.4	5376.3	5369.9	5345.6	5293.7	5229.1
5°	5357.2	5369.9	5371.0	5378.4	5389.0	5384.8	5357.2	5354.1	5318.1	5248.2	5140.2
7.5°	5070.3	5087.3	5124.3	5165.6	5202.7	5237.6	5246.1	5251.4	5229.1	5148.7	5004.7
10°	4747.4	4764.3	4781.3	4842.7	4933.7	5020.6	5092.5	5102.1	5107.4	5033.3	4857.5
12.5°	4389.5	4424.5	4460.5	4551.5	4673.3	4809.9	4936.9	4957.0	4993.0	4936.9	4730.5
15°	4085.7	4121.7	4173.6	4255.1	4402.2	4599.2	4778.1	4810.9	4881.9	4853.3	4611.9
17.5°	3875.0	3887.7	3923.7	4016.9	4175.7	4383.2	4622.5	4688.1	4801.4	4794.0	4510.2
20°	3708.8	3724.7	3746.9	3804.1	3969.2	4188.4	4477.4	4562.1	4715.6	4741.0	4409.7
22.5°	3638.9	3650.5	3647.4	3678.1	3790.3	4010.5	4330.3	4430.8	4639.4	4705.0	4316.5
25°	3643.1	3653.7	3637.8	3630.4	3697.1	3853.8	4176.7	4304.8	4578.0	4680.7	4231.8
27.5°	3714.1	3721.5	3691.8	3662.2	3667.5	3756.4	4049.7	4191.6	4526.1	4691.3	4160.9
30°	3809.4	3823.1	3804.1	3768.1	3728.9	3733.1	3968.2	4107.9	4501.8	4728.3	4127.0
32.5°	3932.2	3944.9	3936.4	3907.8	3857.0	3800.9	3948.0	4077.2	4503.9	4803.5	4119.6
35°	4061.3	4086.7	4100.5	4098.4	4057.1	3959.7	4027.5	4134.4	4554.7	4929.5	4163.0
37.5°	4207.4	4228.6	4287.9	4326.0	4287.9	4174.6	4206.4	4280.5	4666.9	5111.6	4258.3
40°	4349.3	4381.1	4467.9	4586.5	4571.6	4472.1	4479.5	4528.2	4864.9	5382.6	4444.6
42.5°	4497.5	4535.7	4687.1	4862.8	4897.7	4820.5	4840.6	4884.0	5146.5	5758.5	4764.3
45°	4688.1	4733.6	4920.0	5139.1	5276.8	5229.1	5286.3	5307.5	5523.5	6247.6	5185.7
47.5°	4933.7	4986.7	5216.4	5489.6	5684.4	5727.8	5827.3	5814.6	5990.4	6826.8	5732.0
50°	5347.7	5377.4	5594.4	5872.8	6140.7	6336.6	6444.6	6464.7	6569.5	7390.0	6342.9
52.5°	5840.0	5866.5	6023.2	6266.7	6602.3	7017.3	7284.1	7218.5	7243.9	8076.1	7057.6
55°	6393.7	6438.2	6537.7	6699.7	7134.9	7745.8	8281.5	8297.4	8015.7	8732.5	7742.6
57.5°	6822.5	6897.7	7068.2	7299.0	7850.6	8555.7	9275.6	9286.2	8926.3	9433.4	8498.5
60°	6606.5	6695.5	7085.1	7647.3	8789.7	9969.1	10463.5	10403.2	9812.4	10231.7	9420.7
62.5°	5674.9	5690.7	6257.2	7135.9	9078.7	11860.0	12231.6	11976.5	10995.0	11243.8	10357.7
65°	3672.8	3776.5	4225.4	5456.8	8129.0	12909.2	15329.5	14739.8	12653.0	12392.6	11142.2
67.5°	2318.6	2292.2	2478.5	3115.9	5591.2	11985.0	17973.2	17880.0	14821.3	13117.8	10954.8
69°	1922.7	1952.3	2015.8	2388.5	3847.5	10232.7	18285.5	18929.2	15872.7	13060.6	10274.0
70°	1743.7	1757.5	1824.2	2117.5	2968.7	8570.5	17773.1	18900.7	16285.6	12821.4	9780.7
72.5°	1383.8	1382.7	1497.1	1761.7	2219.1	4892.4	14593.7	16409.4	15824.0	11707.6	8081.4
75°	1051.3	1068.3	1194.3	1490.7	2044.4	2673.3	10184.0	12637.1	12638.2	9247.1	5042.8
77.5°	758.1	768.6	915.8	1251.4	1925.9	2167.2	6783.4	9063.9	8520.8	4237.1	1584.9
80°	496.5	502.9	615.1	991.0	1736.3	2044.4	4022.2	5547.8	4019.0	1124.4	524.1
82.5°	272.1	303.9	375.9	641.6	1393.3	1888.8	2444.6	2807.8	1507.6	500.8	273.2
85°	136.6	145.0	211.7	374.8	910.5	1562.7	1702.5	1610.3	778.2	248.8	141.9
87.5°	40.2	50.8	87.9	145.0	369.5	814.2	947.6	850.2	299.6	90.0	29.6
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°	5246.1	5246.1	5246.1	5246.1	5246.1	5246.1	5246.1	5246.1	5246.1	5246.1	5246.1
2.5°	5202.7	5183.6	5098.9	5022.7	4952.8	4878.7	4816.2	4761.2	4766.5	4767.5	4711.4
5°	5084.1	5040.7	4879.7	4729.4	4602.4	4441.4	4303.8	4214.9	4170.4	4111.1	4132.3
7.5°	4923.1	4839.5	4616.1	4366.3	4132.3	3923.7	3697.1	3541.5	3442.0	3345.6	3358.3
10°	4756.9	4622.5	4297.4	3967.1	3664.3	3330.8	3041.8	2794.0	2609.8	2541.0	2495.5
12.5°	4586.5	4409.7	3996.8	3557.4	3139.2	2740.0	2330.3	2064.5	1861.3	1753.3	1767.0
15°	4430.8	4215.9	3683.4	3147.6	2604.5	2129.1	1720.5	1467.4	1325.5	1295.9	1312.8
17.5°	4286.8	4005.2	3390.1	2749.6	2115.4	1596.6	1292.7	1149.8	1092.6	1076.7	1075.7
20°	4138.6	3826.3	3060.8	2323.9	1648.5	1237.7	1060.9	994.2	983.6	989.9	991.0
22.5°	3988.3	3605.0	2722.0	1901.5	1312.8	1012.2	927.5	909.5	917.9	932.8	934.9
25°	3849.6	3410.2	2395.9	1530.9	1048.2	889.3	848.1	848.1	867.1	889.3	890.4
27.5°	3735.2	3221.8	2070.9	1215.4	877.7	800.4	786.6	794.1	820.5	837.5	838.5
30°	3641.0	3046.0	1763.9	974.0	771.8	729.5	726.3	739.0	758.1	773.9	775.0
32.5°	3570.1	2891.4	1476.9	818.4	698.8	675.5	674.4	683.9	694.5	698.8	703.0
35°	3542.6	2763.3	1214.4	719.9	650.1	635.2	635.2	634.2	638.4	640.5	642.7
37.5°	3564.8	2664.9	1011.1	656.4	614.1	603.5	597.1	590.8	588.7	588.7	589.7
40°	3659.0	2613.0	859.7	615.1	588.7	572.8	561.1	553.7	546.3	548.4	550.5
42.5°	3859.1	2622.5	757.0	587.6	566.4	544.2	527.3	518.8	513.5	519.8	518.8
45°	4177.8	2717.8	691.4	568.5	544.2	515.6	499.7	491.3	491.3	500.8	504.0
47.5°	4623.5	2899.9	656.4	553.7	527.3	493.4	477.5	471.1	473.3	489.1	490.2
50°	5167.7	3216.5	650.1	546.3	518.8	477.5	459.5	453.1	458.4	475.4	477.5
52.5°	5768.0	3624.1	680.8	547.4	511.4	468.0	444.7	435.1	440.4	454.2	458.4
55°	6479.5	4134.4	760.2	551.6	500.8	462.7	434.1	412.9	419.3	428.8	429.8
57.5°	7205.8	4778.1	899.9	552.7	492.3	453.1	416.1	388.6	388.6	394.9	398.1
60°	8093.0	5479.0	1084.2	553.7	493.4	439.4	391.7	361.0	356.8	360.0	361.0
62.5°	8973.9	6065.5	1114.9	550.5	504.0	425.6	365.3	333.5	326.1	325.0	322.9
65°	9362.5	5956.5	913.7	535.7	515.6	417.1	344.1	307.0	294.3	290.1	290.1
67.5°	8729.3	5038.6	687.1	515.6	508.2	408.7	324.0	284.8	270.0	261.5	261.5
69°	8134.3	4481.7	617.2	501.8	489.1	394.9	311.3	273.2	255.2	245.6	242.5
70°	7674.8	4098.4	587.6	490.2	471.1	379.0	301.7	264.7	244.6	234.0	231.9
72.5°	6124.8	3215.4	514.5	445.7	401.3	318.7	267.9	238.2	219.2	207.5	204.3
75°	3529.8	1742.7	426.7	387.5	322.9	247.7	226.6	207.5	192.7	182.1	178.9
77.5°	1086.3	673.4	309.2	306.0	237.2	191.6	181.0	173.6	163.0	151.4	149.3
80°	457.4	343.0	209.6	206.5	157.8	133.4	130.2	129.2	124.9	115.4	112.2
82.5°	250.9	193.7	146.1	127.0	95.3	77.3	80.5	81.5	78.3	68.8	62.5
85°	122.8	105.9	70.9	57.2	43.4	27.5	26.5	31.8	29.6	21.2	23.3
87.5°	24.4	29.6	19.1	8.5	4.2	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)