

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: P452806

Luminaire Tested: **GALN-SA3D-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18900 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

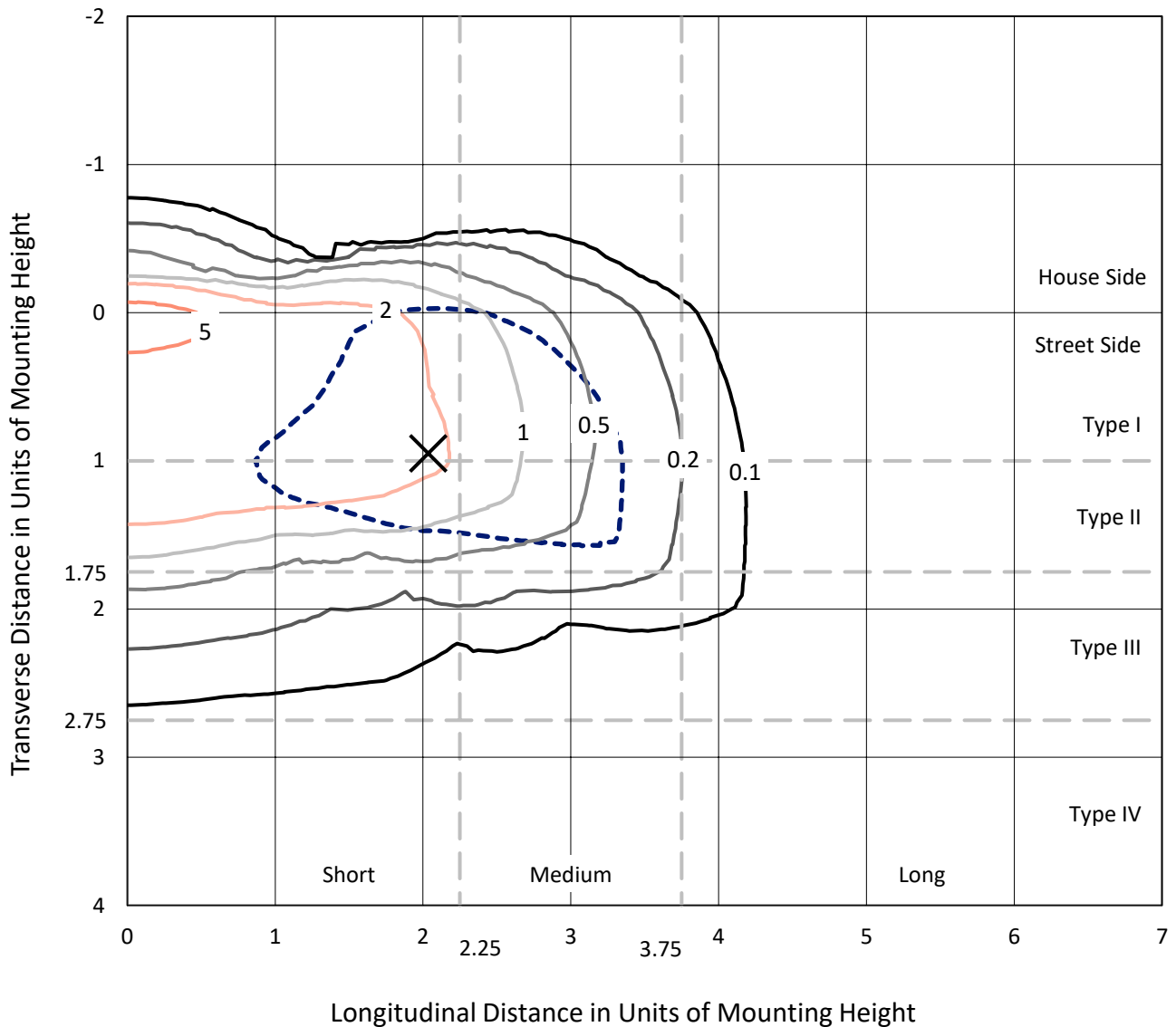
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

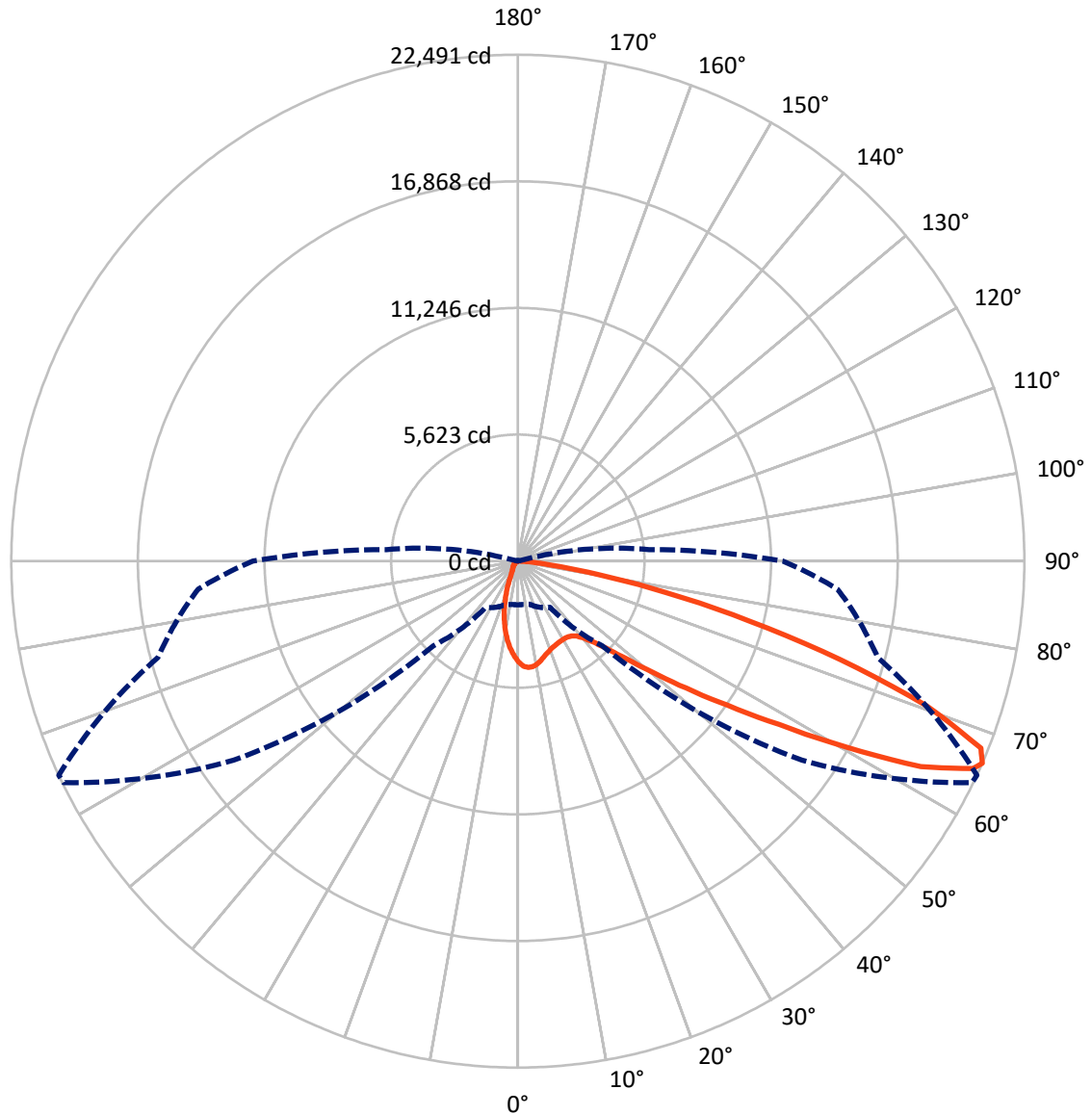
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1954.5	0.0	1954.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	16945.5	0.0	16945.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	18900.0	0.0	18900.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.6	1.9
10°-20°	798.7	4.2
20°-30°	1144.1	6.1
30°-40°	1671.0	8.8
40°-50°	2802.0	14.8
50°-60°	4676.1	24.7
60°-70°	4963.6	26.3
70°-80°	2248.0	11.9
80°-90°	230.0	1.2
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°	18900.0	100.0
0°-180°	18900.0	100.0



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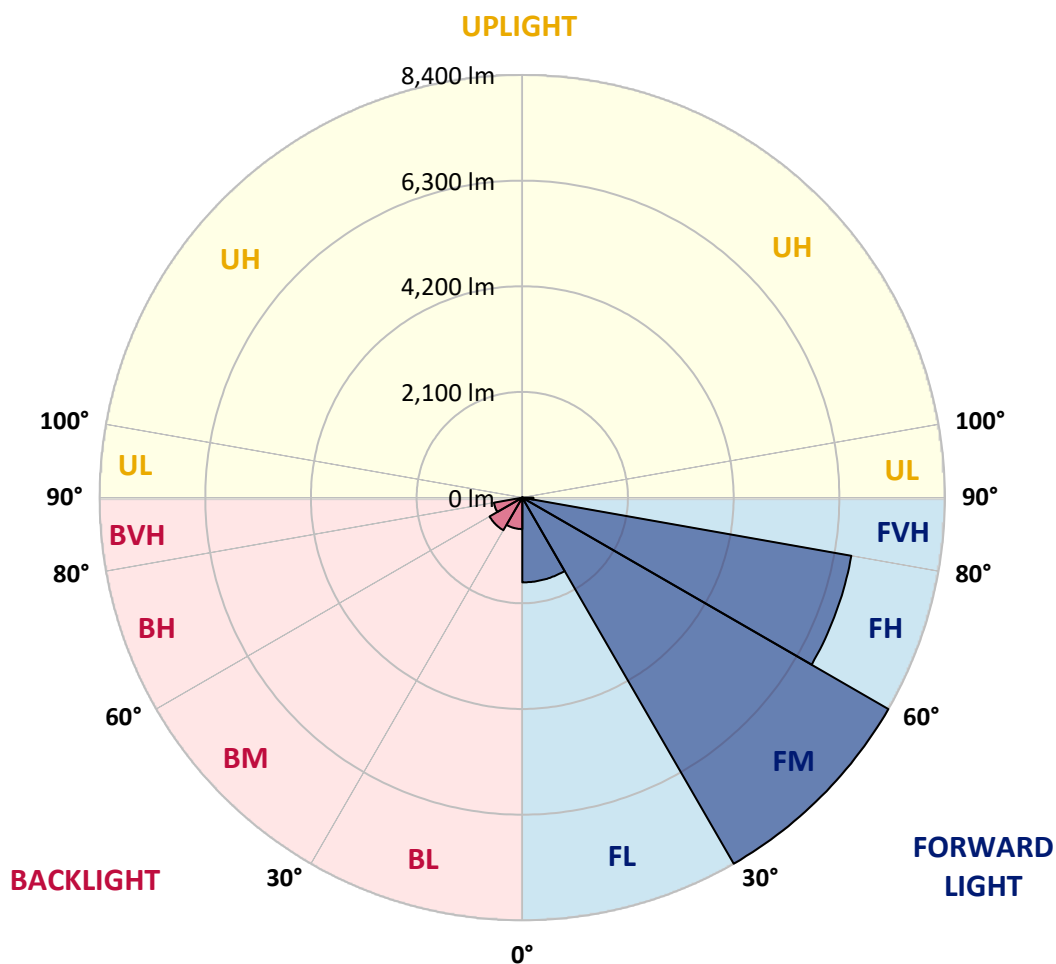
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1684.1	8.9			
FM (30°-60°)	8399.6	44.4			
FH (60°-80°)	6639.1	35.1			G3/7500
FVH (80°-90°)	222.7	1.2			G2/225
BL (0°-30°)	625.2	3.3	B2/1000		
BM (30°-60°)	749.6	4.0	B1/1000		
BH (60°-80°)	572.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	7.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4481.9	4481.9	4481.9	4481.9	4481.9	4481.9	4481.9	4481.9	4481.9	4481.9	4481.9
2.5°	4723.2	4728.3	4734.6	4743.6	4750.0	4730.8	4704.0	4673.4	4667.0	4601.9	4522.7
5°	4470.4	4478.1	4534.2	4564.9	4633.8	4696.3	4735.9	4741.0	4738.5	4677.2	4550.8
7.5°	4110.4	4132.1	4187.0	4240.6	4369.6	4488.3	4628.7	4727.0	4733.4	4716.8	4559.8
10°	3818.1	3832.1	3860.2	3966.2	4073.4	4254.7	4451.3	4636.3	4651.7	4718.0	4552.1
12.5°	3589.6	3610.0	3644.5	3726.2	3855.1	4026.2	4249.6	4498.5	4530.4	4693.8	4530.4
15°	3430.0	3440.2	3474.7	3555.1	3680.2	3838.5	4064.5	4354.2	4382.3	4661.9	4526.6
17.5°	3354.7	3366.2	3390.5	3454.3	3557.7	3704.5	3925.3	4238.1	4273.8	4641.5	4540.6
20°	3375.1	3385.4	3386.6	3419.8	3490.0	3613.8	3823.2	4129.6	4175.5	4628.7	4563.6
22.5°	3491.3	3492.6	3477.3	3461.9	3486.2	3575.6	3760.6	4060.6	4107.9	4626.1	4590.4
25°	3664.9	3668.7	3643.2	3589.6	3541.1	3587.0	3746.6	4016.0	4058.1	4619.8	4607.0
27.5°	3904.9	3903.6	3896.0	3806.6	3668.7	3638.1	3758.1	3991.7	4027.4	4601.9	4613.4
30°	4240.6	4230.4	4213.8	4113.0	3902.3	3761.9	3806.6	3976.4	4009.6	4576.4	4596.8
32.5°	4571.2	4609.5	4607.0	4511.2	4248.3	3982.8	3907.4	3996.8	4021.1	4559.8	4572.5
35°	4956.8	4955.5	5053.8	5018.0	4710.4	4264.9	4079.8	4064.5	4083.6	4571.2	4561.0
37.5°	5314.2	5347.4	5500.6	5537.6	5256.7	4663.2	4323.6	4210.0	4216.4	4649.1	4589.1
40°	5759.7	5823.5	6052.0	6175.8	5928.2	5254.2	4683.6	4476.8	4478.1	4840.6	4695.1
42.5°	6334.1	6435.0	6648.2	6855.0	6722.2	5953.7	5223.5	4899.3	4896.8	5177.6	4937.6
45°	7032.4	7102.6	7345.1	7673.2	7589.0	6930.3	6009.9	5554.2	5521.0	5730.3	5367.8
47.5°	7634.9	7730.6	7977.0	8351.0	8734.0	8122.5	6949.4	6454.1	6432.4	6609.9	6105.6
50°	7897.9	7982.1	8241.3	8765.9	9693.9	9687.6	8348.5	7767.7	7730.6	7826.4	7246.8
52.5°	7609.4	7688.5	7950.2	8603.8	10145.8	11594.7	10375.6	9415.7	9371.0	9248.4	8610.2
55°	6621.3	6686.4	7073.2	7823.8	9972.2	12866.1	13168.7	11451.7	11278.1	10802.0	10153.5
57.5°	5272.1	5238.9	5478.9	6350.7	8953.6	13292.5	16035.7	13988.2	13678.0	12144.9	11459.4
60°	3653.4	3755.5	3852.6	4427.0	6732.4	12553.4	17819.0	17177.0	16768.5	13466.1	12710.4
62.5°	2685.8	2753.5	2817.3	3082.8	4233.0	10023.3	18134.3	20452.5	20090.0	14869.0	13903.9
65°	2124.1	2129.2	2154.8	2416.5	2789.2	6517.9	16619.1	22299.7	22206.5	16219.6	14387.7
66°	1935.2	1936.5	1976.1	2256.9	2503.3	5307.8	15405.1	22440.1	22491.1	16543.8	14246.0
67.5°	1691.4	1686.3	1743.7	2028.4	2279.9	3827.0	13232.5	21870.7	22173.3	16792.7	13736.7
70°	1311.0	1304.6	1374.8	1701.6	2099.9	2553.1	8795.3	18779.0	19266.6	16283.4	12153.8
72.5°	873.1	878.3	998.2	1342.9	2004.1	2248.0	5291.2	14285.6	14974.9	13446.9	9561.2
75°	509.3	518.3	654.9	998.2	1739.9	2143.3	2994.7	10186.7	10627.1	9285.5	5956.3
77.5°	266.8	270.6	366.4	658.7	1334.0	1990.1	1995.2	6507.7	6714.5	4512.5	2357.7
80°	141.7	137.9	196.6	397.0	917.8	1747.6	1618.6	3445.3	3581.9	1340.4	596.1
82.5°	53.6	58.7	104.7	260.4	542.5	1254.8	1394.0	1522.9	1475.7	294.9	250.2
85°	10.2	12.8	44.7	154.5	273.2	524.7	1027.6	746.8	691.9	111.1	144.2
87.5°	1.3	2.6	12.8	37.0	39.6	177.4	303.8	206.8	178.7	40.8	60.0
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°	4481.9	4481.9	4481.9	4481.9	4481.9	4481.9	4481.9	4481.9	4481.9	4481.9	4481.9
2.5°	4484.4	4450.0	4335.1	4221.5	4105.3	4000.6	3929.2	3813.0	3783.6	3741.5	3717.2
5°	4475.5	4395.1	4174.2	3933.0	3708.3	3465.8	3280.7	3102.0	3006.2	2957.7	2939.8
7.5°	4450.0	4322.3	3977.7	3599.8	3239.8	2877.3	2562.0	2322.0	2167.5	2061.6	1990.1
10°	4398.9	4222.8	3749.2	3229.6	2685.8	2207.1	1807.6	1503.7	1268.9	1194.8	1197.4
12.5°	4346.6	4111.7	3493.9	2818.6	2144.6	1540.8	1117.0	877.0	764.6	727.6	720.0
15°	4298.1	4005.7	3243.7	2420.3	1596.9	998.2	720.0	635.7	605.1	598.7	597.4
17.5°	4272.5	3907.4	2976.9	1964.6	1114.4	677.8	577.0	554.0	545.1	538.7	536.1
20°	4250.8	3821.9	2721.6	1538.2	762.1	555.3	517.0	495.3	480.0	473.6	469.8
22.5°	4235.5	3733.8	2457.3	1191.0	583.4	492.7	458.3	430.2	408.5	400.8	395.7
25°	4212.5	3636.8	2190.5	870.6	491.5	437.8	398.3	365.1	337.0	323.0	320.4
27.5°	4179.4	3527.0	1898.2	644.6	439.1	389.3	340.8	300.0	271.9	256.6	257.9
30°	4125.7	3412.2	1605.9	511.9	397.0	339.6	287.2	247.6	220.8	209.4	208.1
32.5°	4061.9	3273.0	1337.8	439.1	358.7	294.9	240.0	205.5	185.1	176.2	174.9
35°	4001.9	3132.6	1064.6	394.4	319.1	254.0	201.7	172.3	157.0	149.4	150.6
37.5°	3968.7	3007.5	829.7	358.7	287.2	218.3	173.6	148.1	134.0	127.7	126.4
40°	3990.4	2905.4	660.0	326.8	251.5	187.6	149.4	127.7	113.6	104.7	104.7
42.5°	4092.5	2860.7	532.3	296.2	218.3	162.1	130.2	109.8	94.5	85.5	86.8
45°	4404.0	2907.9	445.5	268.1	187.6	140.4	112.3	90.6	76.6	70.2	68.9
47.5°	4921.0	3085.4	385.5	238.7	160.8	120.0	94.5	75.3	61.3	56.2	54.9
50°	5824.8	3451.7	340.8	209.4	136.6	102.1	77.9	60.0	48.5	43.4	43.4
52.5°	7068.1	4250.8	308.9	176.2	114.9	86.8	63.8	48.5	38.3	34.5	33.2
55°	8367.6	5093.3	292.3	148.1	95.7	71.5	51.1	38.3	29.4	25.5	24.3
57.5°	9617.4	5754.6	273.2	120.0	76.6	54.9	39.6	29.4	20.4	17.9	16.6
60°	10816.0	6289.4	232.3	95.7	60.0	39.6	29.4	20.4	14.0	11.5	11.5
62.5°	11888.3	6600.9	182.5	76.6	46.0	28.1	19.1	15.3	10.2	7.7	7.7
65°	12013.4	6196.3	137.9	58.7	33.2	17.9	11.5	11.5	7.7	5.1	5.1
66°	11761.9	5852.9	121.3	53.6	29.4	15.3	10.2	8.9	6.4	3.8	3.8
67.5°	11200.2	5267.0	104.7	46.0	24.3	11.5	7.7	7.7	5.1	2.6	2.6
70°	9677.4	4301.9	83.0	34.5	17.9	8.9	5.1	5.1	3.8	2.6	2.6
72.5°	7375.8	3211.7	67.7	25.5	12.8	6.4	3.8	3.8	3.8	2.6	2.6
75°	4448.7	1729.7	52.3	19.1	11.5	5.1	2.6	3.8	5.1	3.8	2.6
77.5°	1639.1	588.5	40.8	15.3	8.9	5.1	2.6	2.6	5.1	3.8	3.8
80°	402.1	153.2	29.4	12.8	8.9	5.1	2.6	2.6	5.1	5.1	5.1
82.5°	186.4	65.1	20.4	11.5	8.9	5.1	2.6	2.6	3.8	5.1	5.1
85°	107.2	30.6	16.6	12.8	8.9	5.1	2.6	2.6	3.8	5.1	5.1
87.5°	43.4	15.3	15.3	12.8	10.2	6.4	2.6	2.6	2.6	3.8	3.8
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)