

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: P452777

Luminaire Tested: **GALN-SA3D-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452777
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-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 17213 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

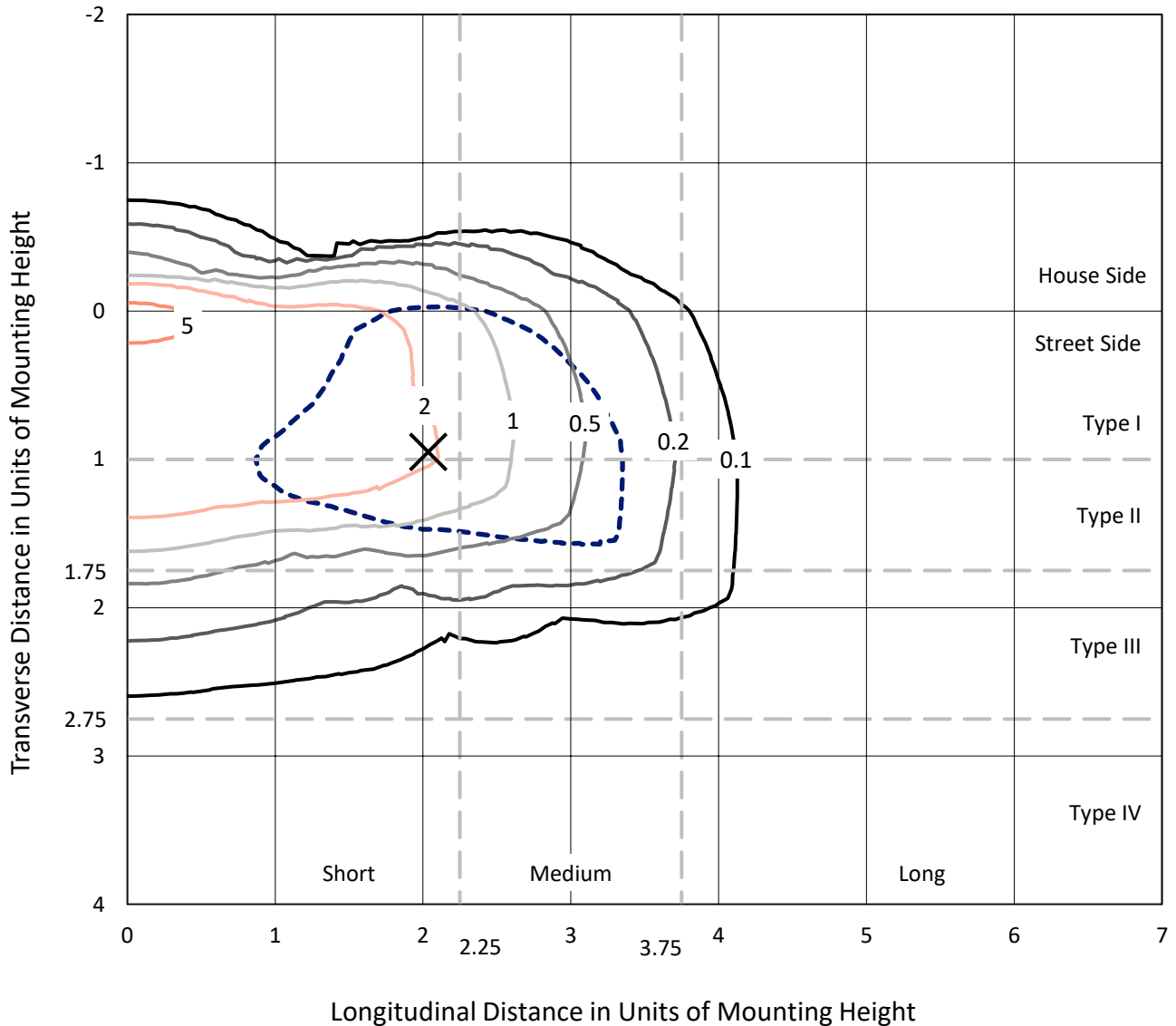
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

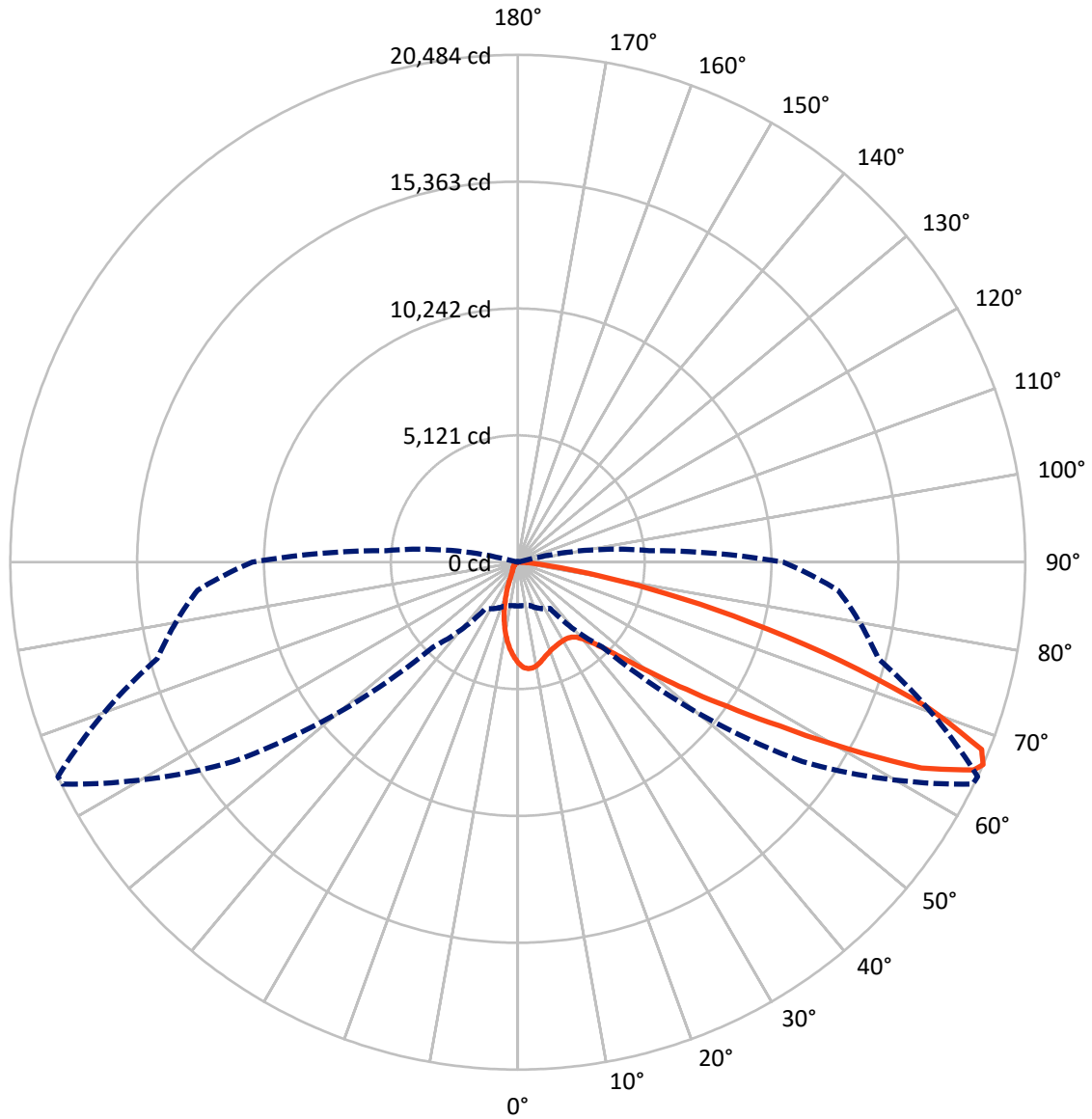
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	1780.1	0.0	1780.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15432.9	0.0	15432.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	17213.0	0.0	17213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.8	1.9
10°-20°	727.4	4.2
20°-30°	1042.0	6.1
30°-40°	1521.9	8.8
40°-50°	2551.9	14.8
50°-60°	4258.7	24.7
60°-70°	4520.5	26.3
70°-80°	2047.3	11.9
80°-90°	209.5	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°	17213.0	100.0
0°-180°	17213.0	100.0

Coefficient of Utilization



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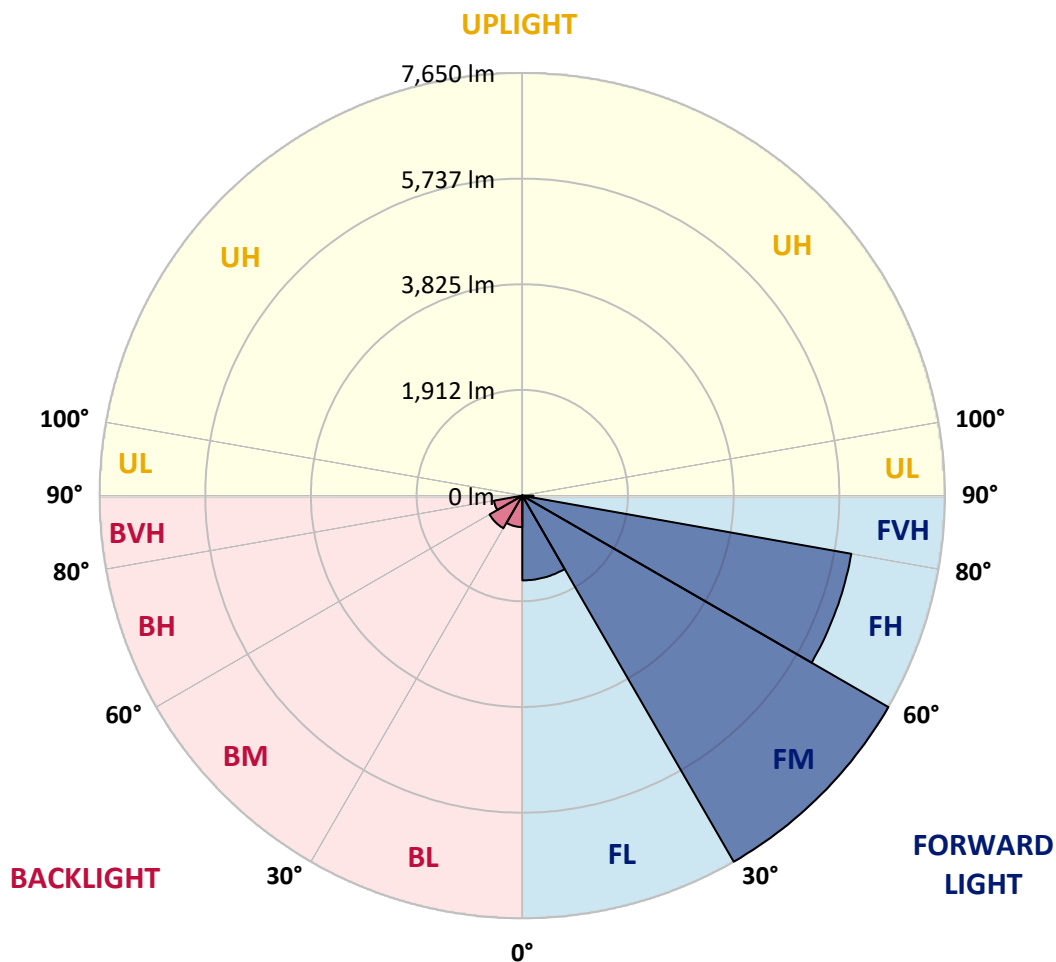
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1533.7	8.9			
FM (30°-60°)	7649.8	44.4			
FH (60°-80°)	6046.5	35.1			G3/7500
FVH (80°-90°)	202.8	1.2			G2/225
BL (0°-30°)	569.4	3.3	B2/1000		
BM (30°-60°)	682.7	4.0	B1/1000		
BH (60°-80°)	521.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	6.7	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°	4081.8	4081.8	4081.8	4081.8	4081.8	4081.8	4081.8	4081.8	4081.8	4081.8	4081.8
2.5°	4301.6	4306.2	4312.0	4320.2	4326.0	4308.5	4284.1	4256.2	4250.4	4191.1	4119.0
5°	4071.4	4078.3	4129.5	4157.4	4220.2	4277.2	4313.2	4317.8	4315.5	4259.7	4144.6
7.5°	3743.5	3763.3	3813.3	3862.1	3979.5	4087.7	4215.5	4305.1	4310.9	4295.8	4152.8
10°	3477.3	3490.1	3515.7	3612.2	3709.8	3874.9	4053.9	4222.5	4236.5	4296.9	4145.8
12.5°	3269.2	3287.8	3319.2	3393.6	3511.0	3666.8	3870.2	4097.0	4126.0	4274.8	4126.0
15°	3123.9	3133.2	3164.6	3237.8	3351.7	3495.9	3701.7	3965.6	3991.2	4245.8	4122.5
17.5°	3055.3	3065.7	3087.8	3146.0	3240.1	3373.8	3574.9	3859.8	3892.3	4227.2	4135.3
20°	3073.9	3083.2	3084.3	3114.6	3178.5	3291.3	3481.9	3761.0	3802.8	4215.5	4156.2
22.5°	3179.7	3180.8	3166.9	3152.9	3175.0	3256.4	3425.0	3698.2	3741.2	4213.2	4180.7
25°	3337.8	3341.3	3318.0	3269.2	3225.0	3266.9	3412.2	3657.5	3695.9	4207.4	4195.8
27.5°	3556.3	3555.2	3548.2	3466.8	3341.3	3313.4	3422.7	3635.4	3668.0	4191.1	4201.6
30°	3862.1	3852.8	3837.7	3745.8	3554.0	3426.1	3466.8	3621.5	3651.7	4167.9	4186.5
32.5°	4163.2	4198.1	4195.8	4108.6	3869.1	3627.3	3558.7	3640.1	3662.1	4152.8	4164.4
35°	4514.3	4513.2	4602.7	4570.1	4289.9	3884.2	3715.6	3701.7	3719.1	4163.2	4153.9
37.5°	4839.8	4870.1	5009.6	5043.3	4787.5	4246.9	3937.7	3834.2	3840.0	4234.1	4179.5
40°	5245.6	5303.7	5511.8	5624.6	5399.0	4785.2	4265.5	4077.2	4078.3	4408.5	4276.0
42.5°	5768.7	5860.6	6054.7	6243.1	6122.2	5422.3	4757.3	4462.0	4459.7	4715.4	4496.9
45°	6404.7	6468.6	6689.5	6988.3	6911.6	6311.7	5473.5	5058.4	5028.2	5218.8	4888.7
47.5°	6953.4	7040.6	7265.0	7605.6	7954.4	7397.5	6329.1	5878.0	5858.3	6019.9	5560.6
50°	7192.9	7269.6	7505.7	7983.5	8828.7	8822.9	7603.3	7074.3	7040.6	7127.8	6600.0
52.5°	6930.2	7002.3	7240.6	7835.8	9240.2	10559.8	9449.5	8575.2	8534.5	8422.9	7841.6
55°	6030.3	6089.6	6441.9	7125.5	9082.1	11717.7	11993.2	10429.6	10271.4	9837.8	9247.2
57.5°	4801.5	4771.3	4989.8	5783.9	8154.4	12106.0	14604.4	12739.6	12457.1	11060.8	10436.5
60°	3327.3	3420.3	3508.7	4031.8	6131.5	11432.9	16228.5	15643.7	15271.7	12264.1	11575.9
62.5°	2446.1	2507.7	2565.8	2807.6	3855.1	9128.6	16515.7	18626.9	18296.8	13541.8	12662.9
65°	1934.5	1939.2	1962.4	2200.8	2540.2	5936.2	15135.7	20309.2	20224.3	14771.8	13103.5
66°	1762.5	1763.6	1799.7	2055.5	2279.8	4834.0	14030.1	20437.1	20483.6	15067.1	12974.5
67.5°	1540.4	1535.8	1588.1	1847.3	2076.4	3485.4	12051.4	19918.6	20194.1	15293.8	12510.6
70°	1194.0	1188.2	1252.1	1549.7	1912.5	2325.2	8010.2	17102.8	17546.9	14829.9	11069.0
72.5°	795.2	799.9	909.1	1223.0	1825.3	2047.3	4818.9	13010.5	13638.3	12246.7	8707.8
75°	463.9	472.0	596.4	909.1	1584.6	1952.0	2727.4	9277.4	9678.5	8456.6	5424.6
77.5°	243.0	246.5	333.7	599.9	1214.9	1812.5	1817.1	5926.9	6115.2	4109.7	2147.3
80°	129.0	125.6	179.0	361.6	835.9	1591.6	1474.2	3137.8	3262.2	1220.7	542.9
82.5°	48.8	53.5	95.3	237.2	494.1	1142.8	1269.5	1387.0	1343.9	268.6	227.9
85°	9.3	11.6	40.7	140.7	248.8	477.8	935.9	680.1	630.1	101.1	131.4
87.5°	1.2	2.3	11.6	33.7	36.0	161.6	276.7	188.3	162.8	37.2	54.6
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°	4081.8	4081.8	4081.8	4081.8	4081.8	4081.8	4081.8	4081.8	4081.8	4081.8	4081.8
2.5°	4084.2	4052.8	3948.1	3844.7	3738.9	3643.5	3578.4	3472.6	3445.9	3407.5	3385.4
5°	4076.0	4002.8	3801.7	3581.9	3377.3	3156.4	2987.8	2825.1	2737.9	2693.7	2677.4
7.5°	4052.8	3936.5	3622.6	3278.5	2950.6	2620.5	2333.3	2114.7	1974.1	1877.6	1812.5
10°	4006.3	3845.8	3414.5	2941.3	2446.1	2010.1	1646.2	1369.5	1155.6	1088.2	1090.5
12.5°	3958.6	3744.7	3182.0	2567.0	1953.1	1403.2	1017.3	798.7	696.4	662.7	655.7
15°	3914.4	3648.2	2954.1	2204.3	1454.4	909.1	655.7	579.0	551.1	545.3	544.1
17.5°	3891.2	3558.7	2711.1	1789.2	1014.9	617.3	525.5	504.6	496.4	490.6	488.3
20°	3871.4	3480.8	2478.6	1400.9	694.1	505.7	470.8	451.1	437.1	431.3	427.8
22.5°	3857.5	3400.6	2238.0	1084.7	531.3	448.8	417.4	391.8	372.0	365.1	360.4
25°	3836.5	3312.2	1995.0	792.9	447.6	398.8	362.7	332.5	306.9	294.1	291.8
27.5°	3806.3	3212.2	1728.8	587.1	399.9	354.6	310.4	273.2	247.6	233.7	234.8
30°	3757.5	3107.6	1462.5	466.2	361.6	309.2	261.6	225.5	201.1	190.7	189.5
32.5°	3699.3	2980.9	1218.4	399.9	326.7	268.6	218.6	187.2	168.6	160.4	159.3
35°	3644.7	2853.0	969.6	359.2	290.6	231.4	183.7	156.9	143.0	136.0	137.2
37.5°	3614.5	2739.1	755.7	326.7	261.6	198.8	158.1	134.9	122.1	116.3	115.1
40°	3634.2	2646.0	601.1	297.6	229.0	170.9	136.0	116.3	103.5	95.3	95.3
42.5°	3727.2	2605.4	484.8	269.7	198.8	147.6	118.6	100.0	86.0	77.9	79.1
45°	4010.9	2648.4	405.7	244.1	170.9	127.9	102.3	82.5	69.8	63.9	62.8
47.5°	4481.8	2810.0	351.1	217.4	146.5	109.3	86.0	68.6	55.8	51.2	50.0
50°	5304.9	3143.6	310.4	190.7	124.4	93.0	70.9	54.6	44.2	39.5	39.5
52.5°	6437.2	3871.4	281.3	160.4	104.6	79.1	58.1	44.2	34.9	31.4	30.2
55°	7620.7	4638.7	266.2	134.9	87.2	65.1	46.5	34.9	26.7	23.3	22.1
57.5°	8758.9	5240.9	248.8	109.3	69.8	50.0	36.0	26.7	18.6	16.3	15.1
60°	9850.6	5728.1	211.6	87.2	54.6	36.0	26.7	18.6	12.8	10.5	10.5
62.5°	10827.2	6011.7	166.2	69.8	41.9	25.6	17.4	14.0	9.3	7.0	7.0
65°	10941.1	5643.2	125.6	53.5	30.2	16.3	10.5	10.5	7.0	4.7	4.7
66°	10712.1	5330.5	110.4	48.8	26.7	14.0	9.3	8.1	5.8	3.5	3.5
67.5°	10200.5	4796.8	95.3	41.9	22.1	10.5	7.0	7.0	4.7	2.3	2.3
70°	8813.6	3917.9	75.6	31.4	16.3	8.1	4.7	4.7	3.5	2.3	2.3
72.5°	6717.4	2925.1	61.6	23.3	11.6	5.8	3.5	3.5	3.5	2.3	2.3
75°	4051.6	1575.3	47.7	17.4	10.5	4.7	2.3	3.5	4.7	3.5	2.3
77.5°	1492.8	536.0	37.2	14.0	8.1	4.7	2.3	2.3	4.7	3.5	3.5
80°	366.2	139.5	26.7	11.6	8.1	4.7	2.3	2.3	4.7	4.7	4.7
82.5°	169.7	59.3	18.6	10.5	8.1	4.7	2.3	2.3	3.5	4.7	4.7
85°	97.7	27.9	15.1	11.6	8.1	4.7	2.3	2.3	3.5	4.7	4.7
87.5°	39.5	14.0	14.0	11.6	9.3	5.8	2.3	2.3	2.3	3.5	3.5
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)