

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: P458838

Luminaire Tested: **GALN-SA3D-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458838
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-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 17606 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

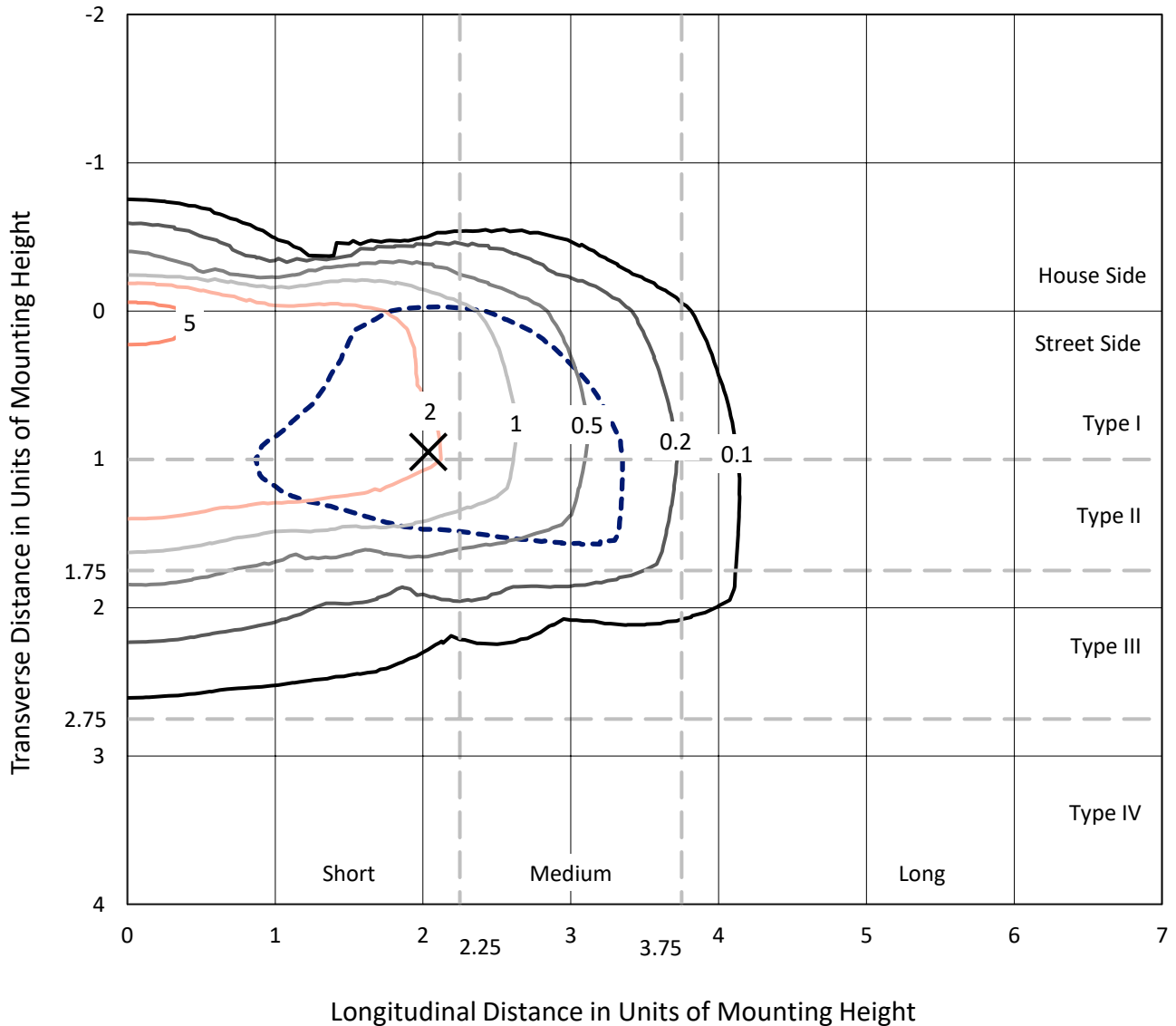
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

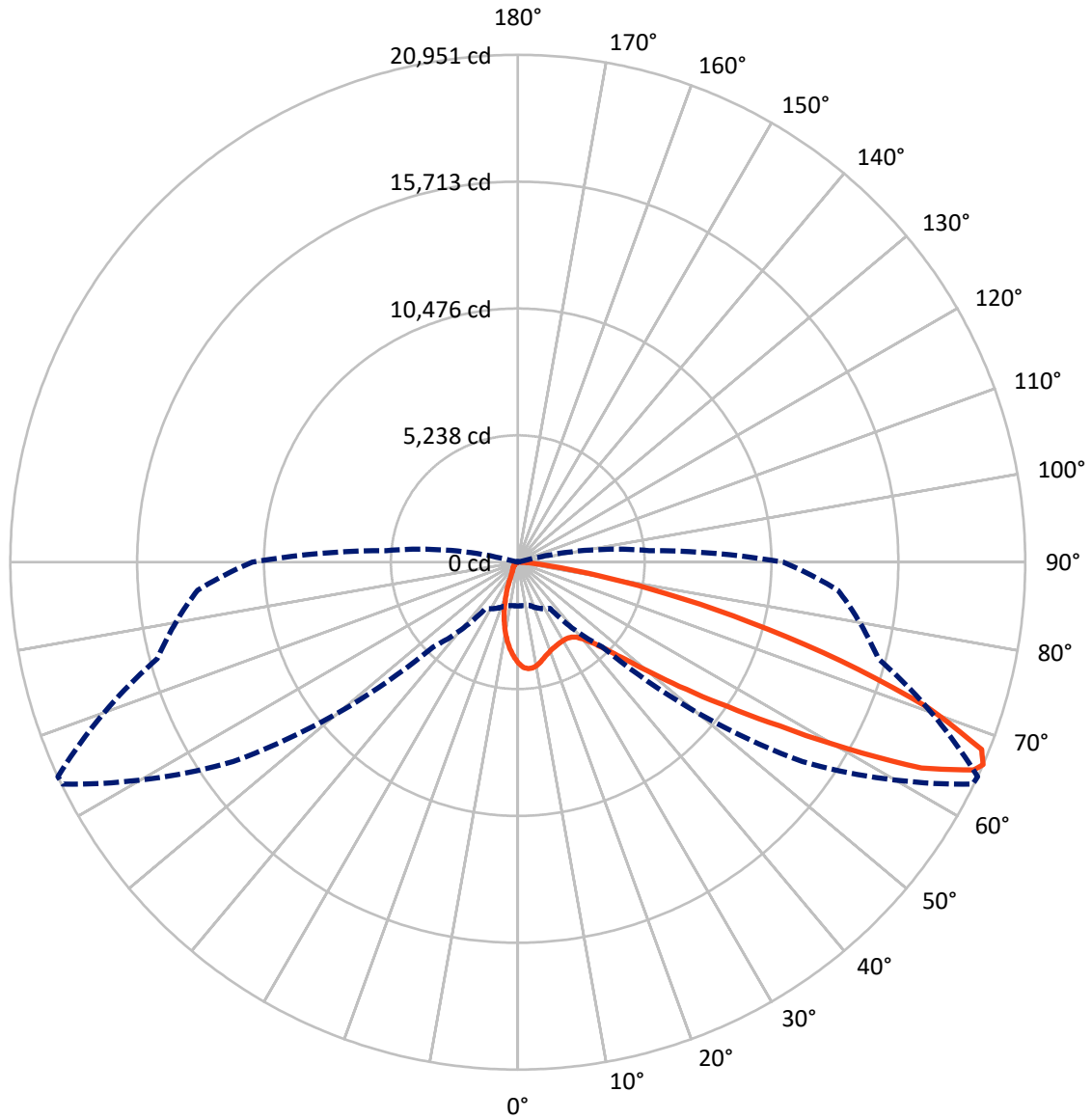
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	1820.7	0.0	1820.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15785.3	0.0	15785.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	17606.0	0.0	17606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.5	1.9
10°-20°	744.0	4.2
20°-30°	1065.8	6.1
30°-40°	1556.6	8.8
40°-50°	2610.2	14.8
50°-60°	4356.0	24.7
60°-70°	4623.7	26.3
70°-80°	2094.1	11.9
80°-90°	214.3	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°	17606.0	100.0
0°-180°	17606.0	100.0

Coefficient of Utilization



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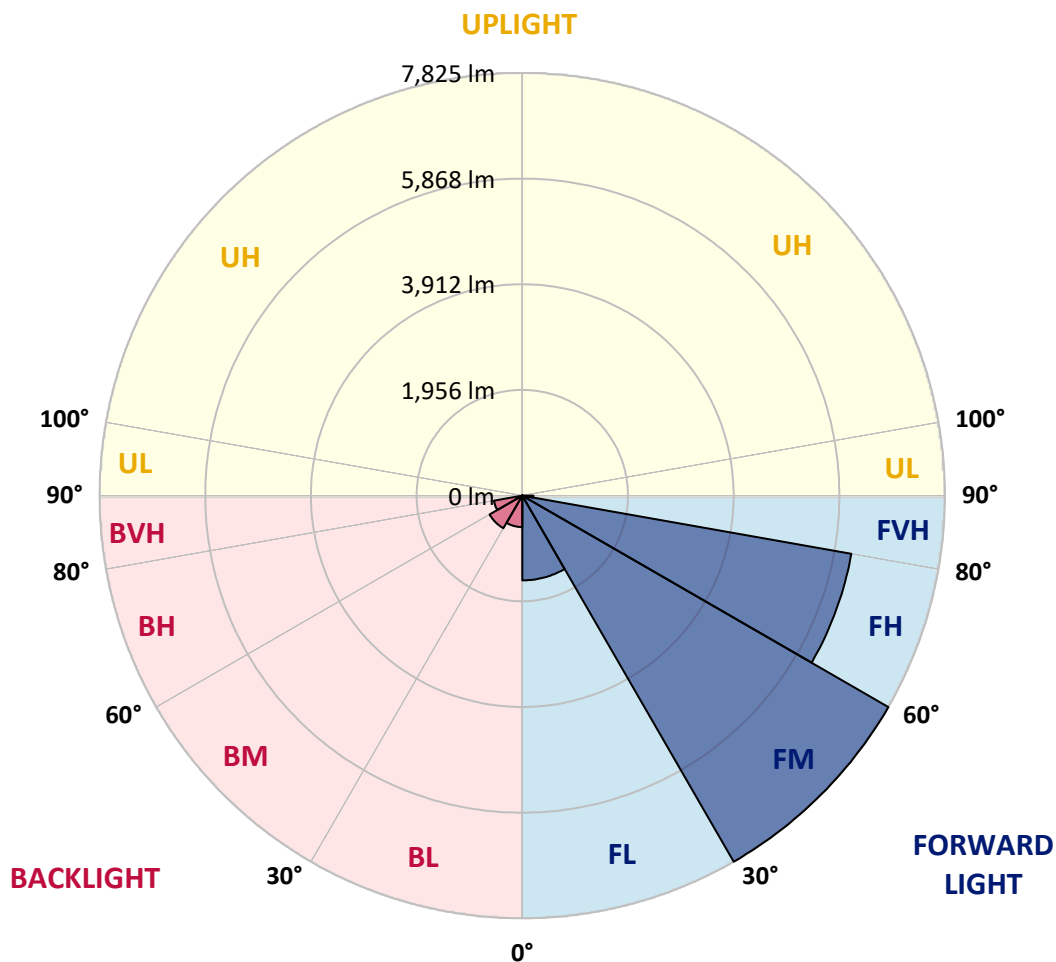
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1568.8	8.9			
FM (30°-60°)	7824.5	44.4			
FH (60°-80°)	6184.6	35.1			G3/7500
FVH (80°-90°)	207.4	1.2			G2/225
BL (0°-30°)	582.4	3.3	B2/1000		
BM (30°-60°)	698.3	4.0	B1/1000		
BH (60°-80°)	533.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	6.8	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°	4175.0	4175.0	4175.0	4175.0	4175.0	4175.0	4175.0	4175.0	4175.0	4175.0	4175.0
2.5°	4399.8	4404.5	4410.5	4418.8	4424.7	4406.9	4381.9	4353.4	4347.5	4286.8	4213.1
5°	4164.3	4171.5	4223.8	4252.3	4316.5	4374.8	4411.7	4416.4	4414.0	4357.0	4239.2
7.5°	3829.0	3849.2	3900.3	3950.3	4070.4	4181.0	4311.8	4403.3	4409.3	4393.8	4247.6
10°	3556.7	3569.8	3595.9	3694.6	3794.5	3963.4	4146.5	4318.9	4333.2	4395.0	4240.4
12.5°	3343.8	3362.9	3395.0	3471.1	3591.2	3750.5	3958.6	4190.5	4220.2	4372.4	4220.2
15°	3195.2	3204.7	3236.8	3311.7	3428.3	3575.7	3786.2	4056.1	4082.3	4342.7	4216.7
17.5°	3125.0	3135.7	3158.3	3217.8	3314.1	3450.9	3656.6	3947.9	3981.2	4323.7	4229.7
20°	3144.1	3153.6	3154.8	3185.7	3251.1	3366.4	3561.4	3846.8	3889.6	4311.8	4251.1
22.5°	3252.3	3253.5	3239.2	3224.9	3247.5	3330.8	3503.2	3782.6	3826.6	4309.4	4276.1
25°	3414.0	3417.6	3393.8	3343.8	3298.6	3341.5	3490.1	3741.0	3780.2	4303.5	4291.6
27.5°	3637.5	3636.4	3629.2	3546.0	3417.6	3389.0	3500.8	3718.4	3751.7	4286.8	4297.5
30°	3950.3	3940.8	3925.3	3831.4	3635.2	3504.4	3546.0	3704.1	3735.1	4263.0	4282.1
32.5°	4258.3	4293.9	4291.6	4202.4	3957.4	3710.1	3639.9	3723.2	3745.8	4247.6	4259.5
35°	4617.4	4616.2	4707.8	4674.5	4387.9	3972.9	3800.5	3786.2	3804.0	4258.3	4248.8
37.5°	4950.3	4981.3	5124.0	5158.4	4896.8	4343.9	4027.6	3921.7	3927.7	4330.8	4274.9
40°	5365.4	5424.8	5637.7	5753.0	5522.3	4894.5	4362.9	4170.3	4171.5	4509.2	4373.6
42.5°	5900.5	5994.4	6193.0	6385.6	6262.0	5546.1	4865.9	4563.9	4561.5	4823.1	4599.6
45°	6550.9	6616.3	6842.2	7147.9	7069.4	6455.8	5598.4	5173.9	5143.0	5338.0	5000.3
47.5°	7112.2	7201.4	7430.9	7779.3	8136.0	7566.4	6473.6	6012.2	5992.0	6157.3	5687.6
50°	7357.1	7435.6	7677.0	8165.7	9030.2	9024.3	7776.9	7235.8	7201.4	7290.5	6750.7
52.5°	7088.4	7162.1	7405.9	8014.7	9451.2	10800.9	9665.2	8771.0	8729.4	8615.2	8020.7
55°	6168.0	6228.7	6589.0	7288.2	9289.5	11985.2	12267.1	10667.7	10506.0	10062.4	9458.3
57.5°	4911.1	4880.2	5103.7	5915.9	8340.6	12382.4	14937.8	13030.5	12741.5	11313.4	10674.8
60°	3403.3	3498.4	3588.8	4123.9	6271.5	11693.9	16599.1	16000.9	15620.4	12544.1	11840.2
62.5°	2501.9	2565.0	2624.4	2871.7	3943.2	9337.0	16892.8	19052.2	18714.5	13851.0	12952.0
65°	1978.7	1983.5	2007.2	2251.0	2598.2	6071.7	15481.3	20772.9	20686.1	15109.1	13402.7
66°	1802.7	1803.9	1840.8	2102.4	2331.9	4944.4	14350.4	20903.7	20951.3	15411.1	13270.7
67.5°	1575.6	1570.8	1624.4	1889.5	2123.8	3565.0	12326.5	20373.3	20655.2	15643.0	12796.2
70°	1221.2	1215.3	1280.7	1585.1	1956.1	2378.3	8193.1	17493.3	17947.5	15168.5	11321.7
72.5°	813.4	818.1	929.9	1251.0	1866.9	2094.1	4928.9	13307.5	13949.7	12526.3	8906.6
75°	474.5	482.8	610.0	929.9	1620.8	1996.5	2789.7	9489.2	9899.5	8649.7	5548.5
77.5°	248.5	252.1	341.3	613.6	1242.6	1853.9	1858.6	6062.2	6254.8	4203.6	2196.3
80°	132.0	128.4	183.1	369.8	855.0	1627.9	1507.8	3209.5	3336.7	1248.6	555.3
82.5°	49.9	54.7	97.5	242.6	505.4	1168.9	1298.5	1418.6	1374.6	274.7	233.1
85°	9.5	11.9	41.6	143.9	254.5	488.7	957.2	695.6	644.5	103.5	134.4
87.5°	1.2	2.4	11.9	34.5	36.9	165.3	283.0	192.6	166.5	38.1	55.9
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°	4175.0	4175.0	4175.0	4175.0	4175.0	4175.0	4175.0	4175.0	4175.0	4175.0	4175.0
2.5°	4177.4	4145.3	4038.3	3932.4	3824.2	3726.7	3660.1	3551.9	3524.6	3485.3	3462.7
5°	4169.1	4094.2	3888.5	3663.7	3454.4	3228.5	3056.1	2889.6	2800.4	2755.2	2738.6
7.5°	4145.3	4026.4	3705.3	3353.3	3018.0	2680.3	2386.6	2163.0	2019.1	1920.4	1853.9
10°	4097.7	3933.6	3492.5	3008.5	2501.9	2056.0	1683.8	1400.8	1182.0	1113.0	1115.4
12.5°	4049.0	3830.2	3254.6	2625.6	1997.7	1435.3	1040.5	816.9	712.3	677.8	670.7
15°	4003.8	3731.5	3021.6	2254.6	1487.6	929.9	670.7	592.2	563.6	557.7	556.5
17.5°	3980.0	3639.9	2773.0	1830.1	1038.1	631.4	537.5	516.1	507.8	501.8	499.4
20°	3959.8	3560.3	2535.2	1432.9	709.9	517.3	481.6	461.4	447.1	441.2	437.6
22.5°	3945.5	3478.2	2289.1	1109.5	543.4	459.0	426.9	400.7	380.5	373.4	368.6
25°	3924.1	3387.8	2040.5	811.0	457.8	407.9	371.0	340.1	313.9	300.8	298.5
27.5°	3893.2	3285.6	1768.2	600.5	409.1	362.7	317.5	279.4	253.3	239.0	240.2
30°	3843.3	3178.5	1495.9	476.8	369.8	316.3	267.6	230.7	205.7	195.0	193.8
32.5°	3783.8	3048.9	1246.2	409.1	334.1	274.7	223.6	191.4	172.4	164.1	162.9
35°	3727.9	2918.1	991.7	367.4	297.3	236.6	187.9	160.5	146.3	139.1	140.3
37.5°	3697.0	2801.6	772.9	334.1	267.6	203.3	161.7	137.9	124.9	118.9	117.7
40°	3717.2	2706.5	614.8	304.4	234.3	174.8	139.1	118.9	105.8	97.5	97.5
42.5°	3812.3	2664.8	495.9	275.9	203.3	151.0	121.3	102.3	88.0	79.7	80.9
45°	4102.5	2708.8	415.0	249.7	174.8	130.8	104.6	84.4	71.3	65.4	64.2
47.5°	4584.1	2874.1	359.1	222.4	149.8	111.8	88.0	70.2	57.1	52.3	51.1
50°	5426.0	3215.4	317.5	195.0	127.2	95.1	72.5	55.9	45.2	40.4	40.4
52.5°	6584.2	3959.8	287.8	164.1	107.0	80.9	59.5	45.2	35.7	32.1	30.9
55°	7794.7	4744.6	272.3	137.9	89.2	66.6	47.6	35.7	27.3	23.8	22.6
57.5°	8958.9	5360.6	254.5	111.8	71.3	51.1	36.9	27.3	19.0	16.6	15.5
60°	10075.5	5858.8	216.4	89.2	55.9	36.9	27.3	19.0	13.1	10.7	10.7
62.5°	11074.4	6149.0	170.0	71.3	42.8	26.2	17.8	14.3	9.5	7.1	7.1
65°	11190.9	5772.0	128.4	54.7	30.9	16.6	10.7	10.7	7.1	4.8	4.8
66°	10956.6	5452.2	113.0	49.9	27.3	14.3	9.5	8.3	5.9	3.6	3.6
67.5°	10433.4	4906.3	97.5	42.8	22.6	10.7	7.1	7.1	4.8	2.4	2.4
70°	9014.8	4007.4	77.3	32.1	16.6	8.3	4.8	4.8	3.6	2.4	2.4
72.5°	6870.8	2991.8	63.0	23.8	11.9	5.9	3.6	3.6	3.6	2.4	2.4
75°	4144.1	1611.3	48.8	17.8	10.7	4.8	2.4	3.6	4.8	3.6	2.4
77.5°	1526.8	548.2	38.1	14.3	8.3	4.8	2.4	2.4	4.8	3.6	3.6
80°	374.6	142.7	27.3	11.9	8.3	4.8	2.4	2.4	4.8	4.8	4.8
82.5°	173.6	60.6	19.0	10.7	8.3	4.8	2.4	2.4	3.6	4.8	4.8
85°	99.9	28.5	15.5	11.9	8.3	4.8	2.4	2.4	3.6	4.8	4.8
87.5°	40.4	14.3	14.3	11.9	9.5	5.9	2.4	2.4	2.4	3.6	3.6
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)