

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: P453968

Luminaire Tested: **GALN-SA5A-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18945 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

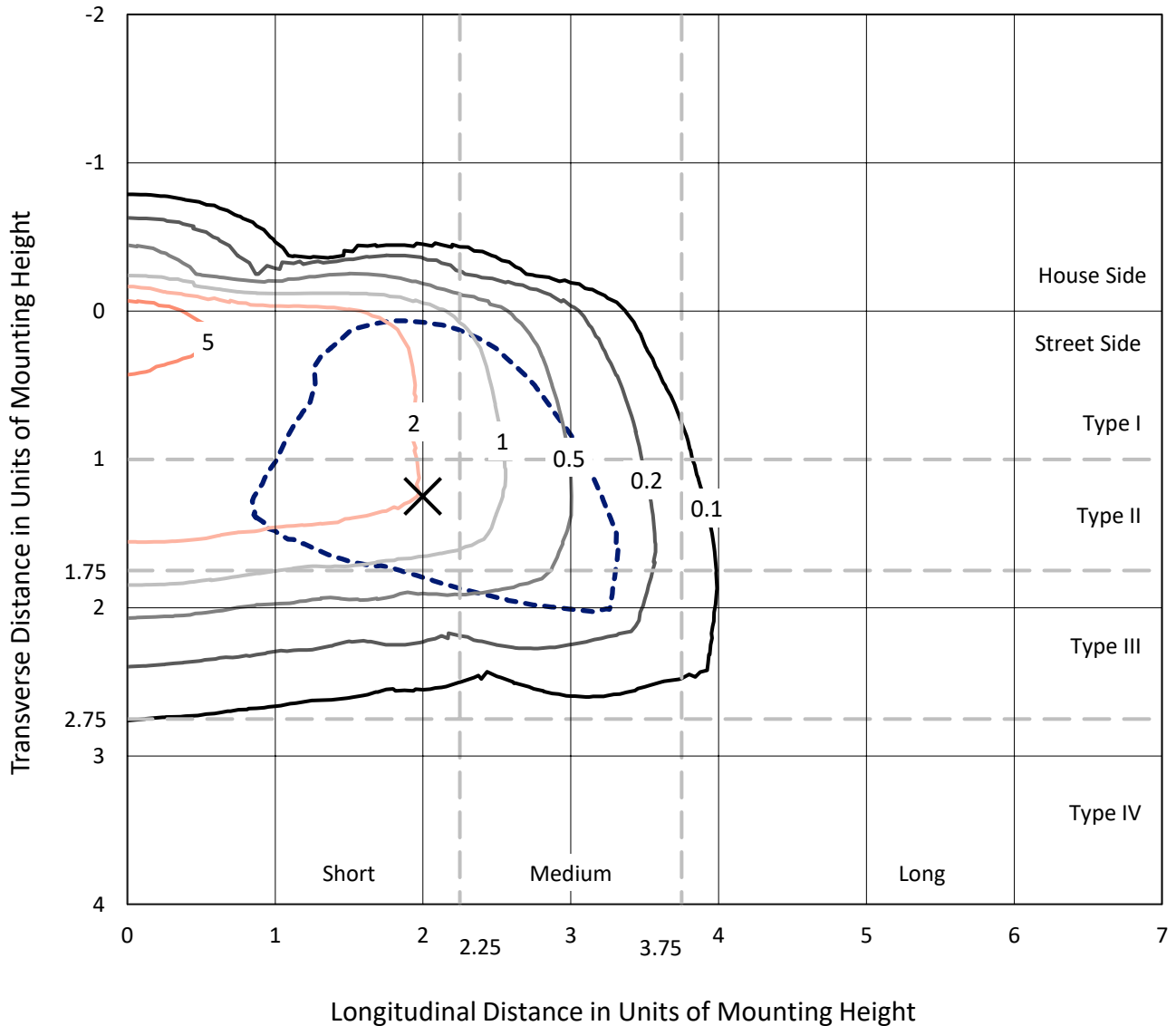
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

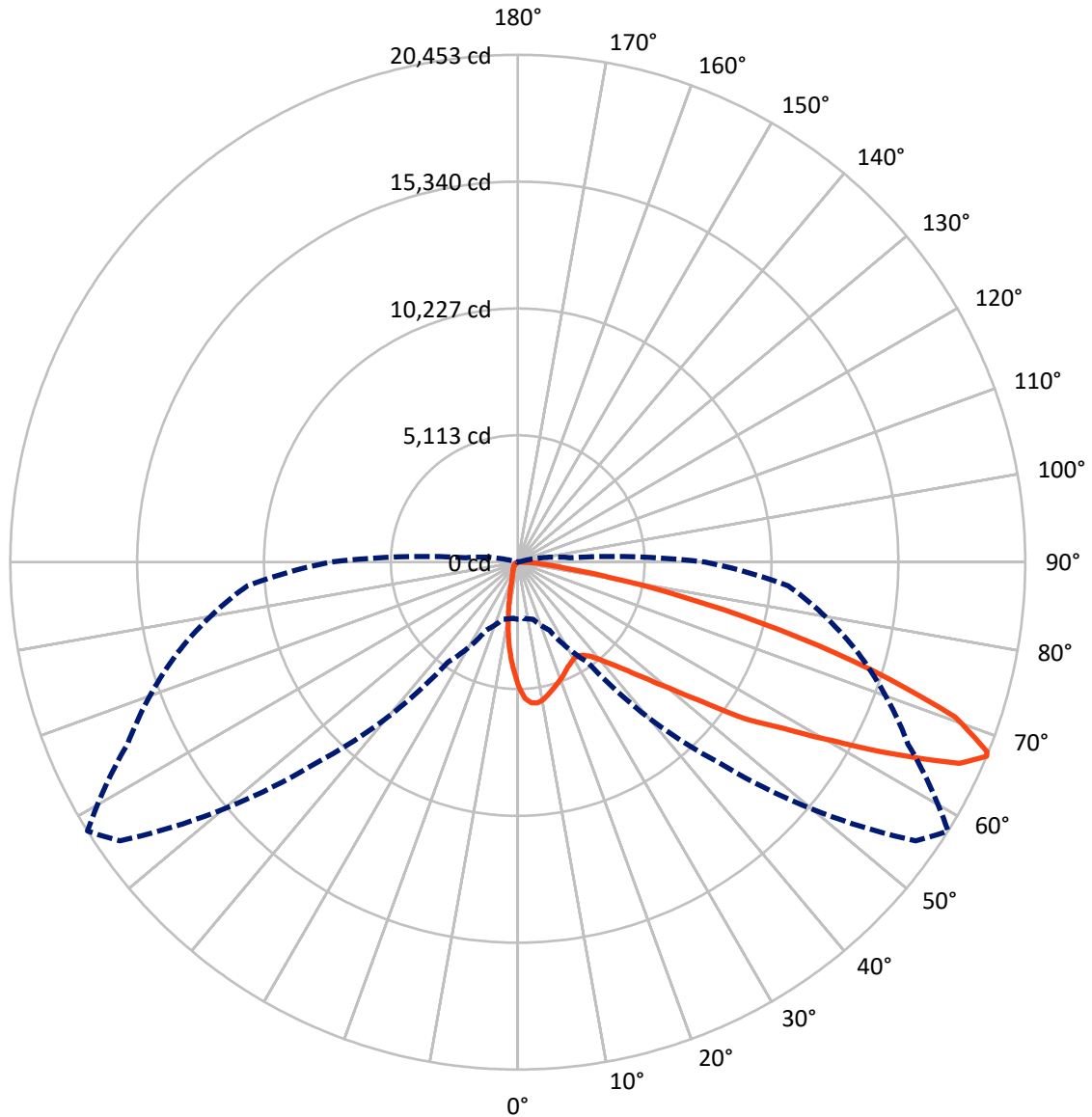
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1367.2	0.0	1367.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	17577.8	0.0	17577.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	18945.0	0.0	18945.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.5	2.2
10°-20°	880.2	4.6
20°-30°	1192.7	6.3
30°-40°	1654.2	8.7
40°-50°	2638.3	13.9
50°-60°	4560.5	24.1
60°-70°	5209.5	27.5
70°-80°	2171.9	11.5
80°-90°	230.3	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°	18945.0	100.0
0°-180°	18945.0	100.0



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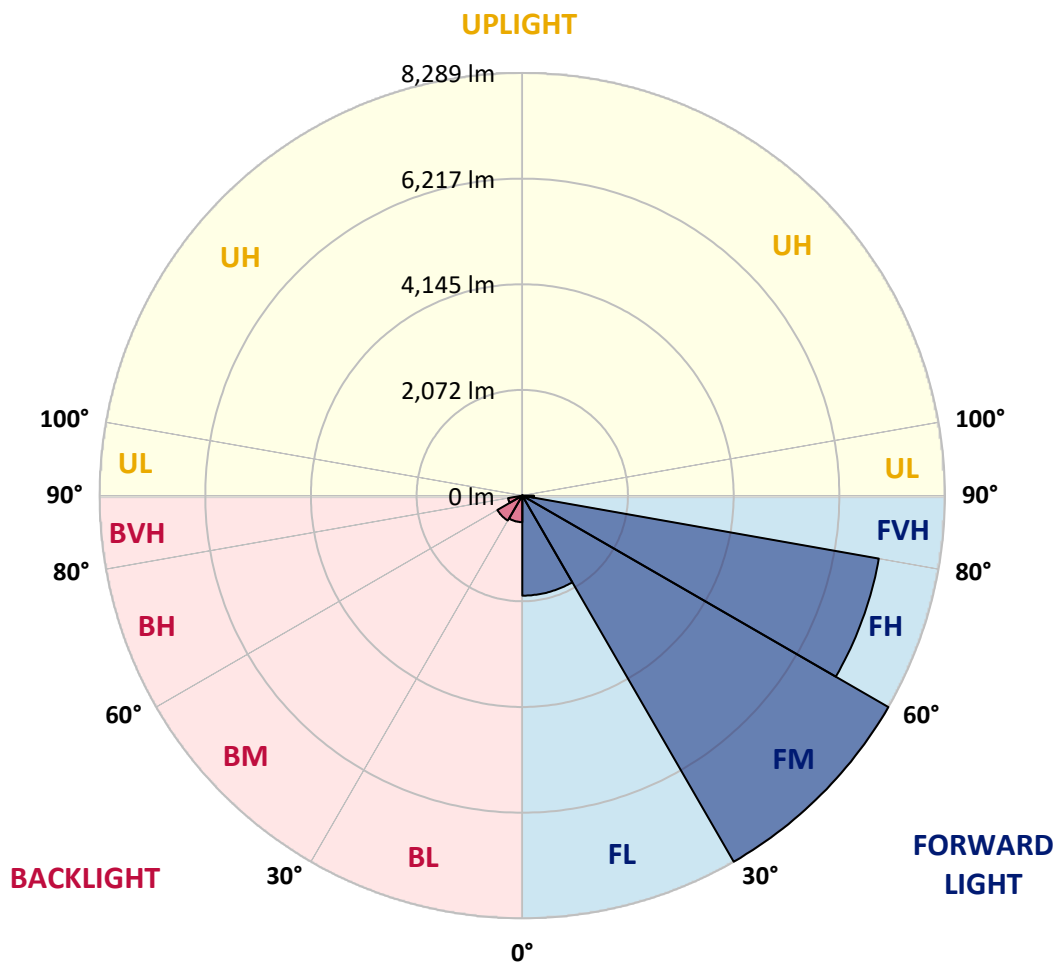
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1961.3	10.4			
FM	(30°-60°)	8289.2	43.8			
FH	(60°-80°)	7098.7	37.5			G3/7500
FVH	(80°-90°)	228.6	1.2			G3/500
BL	(0°-30°)	519.1	2.7	B2/1000		
BM	(30°-60°)	563.7	3.0	B1/1000		
BH	(60°-80°)	282.6	1.5	B1/500		G1/500
BVH	(80°-90°)	1.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5022.1	5022.1	5022.1	5022.1	5022.1	5022.1	5022.1	5022.1	5022.1	5022.1	5022.1
2.5°	5828.6	5837.4	5804.5	5777.9	5709.6	5636.1	5538.7	5486.8	5398.1	5245.0	5075.3
5°	5965.3	5976.7	5971.6	5965.3	5938.7	5867.8	5743.8	5698.2	5567.8	5318.4	5012.0
7.5°	5661.5	5703.2	5708.3	5757.7	5804.5	5810.9	5764.0	5729.8	5609.6	5317.1	4899.3
10°	5258.9	5286.7	5327.2	5384.2	5496.9	5590.6	5636.1	5631.1	5561.5	5277.9	4767.7
12.5°	4852.5	4867.7	4929.7	5027.2	5165.2	5324.7	5446.2	5470.3	5471.6	5231.0	4657.5
15°	4503.1	4496.8	4544.9	4657.5	4851.2	5051.3	5269.0	5307.0	5367.8	5185.5	4555.0
17.5°	4204.3	4237.2	4244.8	4368.9	4547.4	4806.9	5084.2	5151.3	5272.8	5146.2	4470.2
20°	4019.5	4037.2	4053.7	4123.3	4284.1	4557.5	4910.7	5003.2	5184.2	5110.8	4375.2
22.5°	3965.1	3976.4	3962.5	3984.0	4098.0	4341.0	4722.1	4844.9	5099.4	5077.8	4298.0
25°	4006.8	4018.2	3985.3	3960.0	3999.2	4165.1	4539.8	4689.2	5031.0	5071.5	4239.8
27.5°	4108.1	4129.6	4084.1	4038.5	4015.7	4070.1	4396.8	4570.2	4984.2	5101.9	4213.2
30°	4266.4	4279.0	4244.8	4189.1	4137.2	4082.8	4322.1	4487.9	4971.5	5172.8	4210.7
32.5°	4438.5	4465.1	4446.1	4409.4	4342.3	4213.2	4343.6	4490.4	5001.9	5275.3	4242.3
35°	4651.2	4681.6	4699.3	4691.7	4605.6	4444.9	4480.3	4604.4	5082.9	5464.0	4328.4
37.5°	4860.1	4886.7	4986.7	5020.9	4944.9	4793.0	4746.2	4828.5	5261.4	5710.8	4484.1
40°	5099.4	5134.8	5275.3	5405.7	5369.0	5209.5	5123.4	5191.8	5534.9	6083.0	4779.1
42.5°	5328.5	5391.8	5605.8	5836.2	5870.4	5691.8	5634.9	5657.7	5940.0	6618.5	5190.5
45°	5653.9	5713.4	5989.4	6302.1	6462.8	6323.6	6265.3	6261.5	6495.7	7371.8	5857.7
47.5°	6123.5	6176.7	6502.1	6811.0	7097.1	7116.1	7005.9	7043.9	7194.6	8252.9	6675.5
50°	6699.6	6824.9	7038.9	7360.4	7742.7	8051.6	8085.8	8035.2	8164.3	9273.3	7657.9
52.5°	7536.4	7584.5	7780.7	8045.3	8493.5	9017.6	9424.0	9354.3	9313.8	10245.6	8650.4
55°	8160.5	8225.1	8530.2	8893.5	9550.6	10241.8	11122.9	11147.0	10635.5	11179.9	9621.5
57.5°	7971.9	8070.6	8532.7	9263.2	10707.7	11971.1	12626.9	12643.3	11858.4	12087.6	10717.8
60°	7003.4	7050.2	7712.4	8687.2	10806.4	13844.8	14760.1	14627.1	13102.9	13102.9	11686.3
62.5°	4966.4	5039.9	5576.6	7011.0	9759.4	14495.5	17314.8	17040.1	14817.0	14073.9	12263.6
65°	3173.8	3102.9	3458.7	4425.9	7270.5	13534.6	19539.1	19555.6	16429.9	14462.6	11948.3
67°	2299.0	2271.2	2373.7	3025.7	4929.7	11377.4	19586.0	20453.2	17356.6	14217.0	10940.6
67.5°	2102.8	2124.3	2199.0	2729.5	4479.0	10353.2	19373.3	20400.0	17565.5	14068.8	10576.0
70°	1593.9	1557.2	1638.2	1930.6	2685.1	6531.2	16665.4	18709.9	17306.0	12599.0	8450.4
72.5°	1172.3	1168.5	1281.2	1578.7	2067.3	3478.9	12510.4	15001.9	14138.5	9593.6	5320.9
75°	791.2	826.7	1006.5	1319.2	1873.7	2256.0	8528.9	10883.6	9815.1	5447.5	2175.0
77.5°	450.7	453.2	648.2	1059.6	1682.5	1815.4	5053.8	6933.8	5195.6	1811.6	645.7
80°	195.0	214.0	321.6	769.7	1395.1	1607.8	2897.8	3810.6	2101.5	383.6	208.9
82.5°	72.2	84.8	141.8	473.5	1017.8	1324.2	1750.9	1819.2	712.7	135.5	130.4
85°	0.0	2.5	51.9	221.5	530.4	591.2	1169.8	1078.6	315.2	64.6	84.8
87.5°	0.0	0.0	0.0	22.8	69.6	220.3	363.3	405.1	76.0	22.8	20.3
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°	5022.1	5022.1	5022.1	5022.1	5022.1	5022.1	5022.1	5022.1	5022.1	5022.1	5022.1
2.5°	4984.2	4901.9	4695.5	4489.2	4336.0	4208.1	4015.7	3910.6	3854.9	3772.6	3777.7
5°	4858.8	4691.7	4328.4	3952.4	3648.6	3352.3	2997.8	2854.8	2734.5	2666.2	2620.6
7.5°	4672.7	4425.9	3887.8	3386.5	2919.4	2401.6	2012.9	1753.4	1578.7	1514.1	1452.1
10°	4468.9	4141.0	3440.9	2745.9	2097.7	1563.5	1234.3	996.3	911.5	833.0	840.6
12.5°	4280.3	3881.5	3030.8	2167.4	1469.8	993.8	774.8	677.3	649.4	640.6	640.6
15°	4125.8	3633.4	2590.2	1629.3	1007.7	714.0	620.3	593.7	583.6	581.1	581.1
17.5°	3961.3	3397.9	2192.7	1203.9	733.0	597.5	565.9	548.2	544.4	541.8	541.8
20°	3814.4	3161.2	1815.4	896.3	592.5	538.0	517.8	506.4	502.6	500.1	501.3
22.5°	3675.1	2951.0	1460.9	677.3	521.6	489.9	469.7	458.3	450.7	444.4	445.6
25°	3551.1	2748.4	1174.8	554.5	469.7	441.8	421.6	405.1	388.7	381.1	379.8
27.5°	3463.7	2571.2	915.3	474.7	422.8	392.5	367.1	346.9	325.4	314.0	311.4
30°	3391.6	2391.4	724.1	419.0	376.0	346.9	315.2	286.1	263.3	251.9	246.9
32.5°	3344.7	2220.5	571.0	373.5	336.8	301.3	265.9	236.7	211.4	200.0	197.5
35°	3337.1	2077.5	467.1	335.5	301.3	263.3	226.6	195.0	173.4	162.0	159.5
37.5°	3391.6	1967.3	391.2	305.1	272.2	230.4	189.9	160.8	141.8	132.9	131.7
40°	3537.2	1897.7	339.3	279.8	245.6	200.0	162.0	136.7	117.7	108.9	108.9
42.5°	3814.4	1900.2	305.1	255.7	219.0	170.9	138.0	113.9	97.5	89.9	87.4
45°	4247.4	1986.3	276.0	231.7	193.7	148.1	117.7	93.7	77.2	70.9	70.9
47.5°	4827.2	2157.2	250.7	207.6	170.9	126.6	100.0	76.0	62.0	55.7	55.7
50°	5585.5	2431.9	229.1	187.4	151.9	108.9	81.0	62.0	48.1	43.0	41.8
52.5°	6378.0	2771.2	203.8	169.6	130.4	92.4	65.8	48.1	36.7	32.9	31.6
55°	7252.8	3102.9	179.8	151.9	106.3	77.2	51.9	38.0	26.6	22.8	22.8
57.5°	8135.2	3428.3	150.7	126.6	83.6	57.0	40.5	27.9	17.7	13.9	13.9
60°	8882.1	3533.4	127.9	102.5	63.3	40.5	29.1	17.7	10.1	6.3	6.3
62.5°	8984.7	3178.9	107.6	78.5	45.6	27.9	15.2	10.1	3.8	2.5	2.5
65°	8427.6	2582.6	89.9	59.5	30.4	13.9	6.3	3.8	1.3	0.0	0.0
67°	7551.6	2093.9	73.4	44.3	21.5	8.9	3.8	1.3	0.0	0.0	0.0
67.5°	7327.5	1996.5	70.9	41.8	19.0	7.6	2.5	1.3	0.0	0.0	0.0
70°	5750.1	1495.1	50.6	25.3	11.4	5.1	0.0	0.0	0.0	0.0	0.0
72.5°	3573.9	845.7	36.7	15.2	7.6	2.5	0.0	0.0	0.0	0.0	0.0
75°	1350.8	296.2	25.3	10.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	420.3	112.7	15.2	7.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	141.8	43.0	10.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	87.4	17.7	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.4	7.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	2.5	1.3	0.0	0.0	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)