

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: P452600

Luminaire Tested: **GALN-SA3C-750-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3C-750-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17195 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

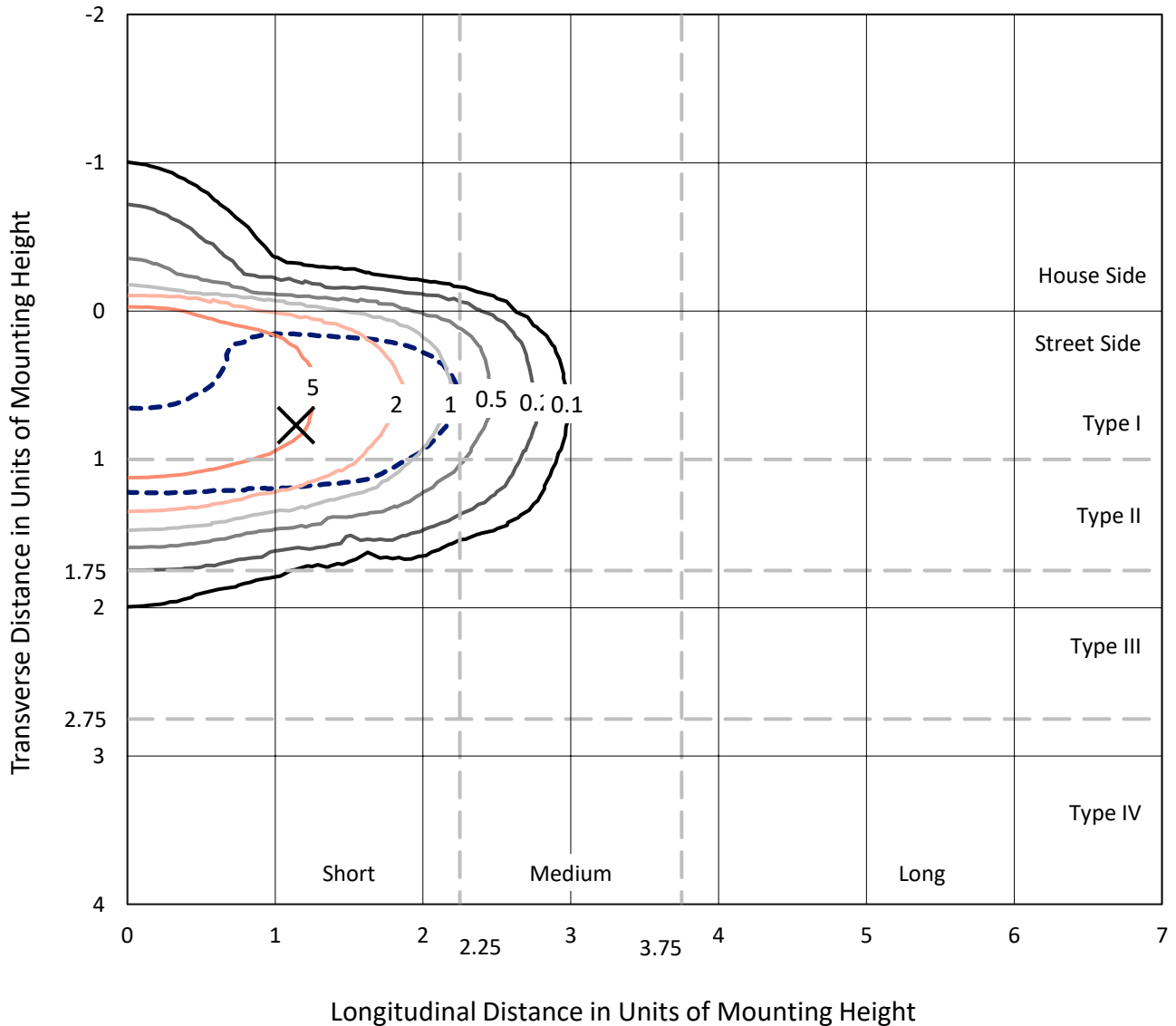
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

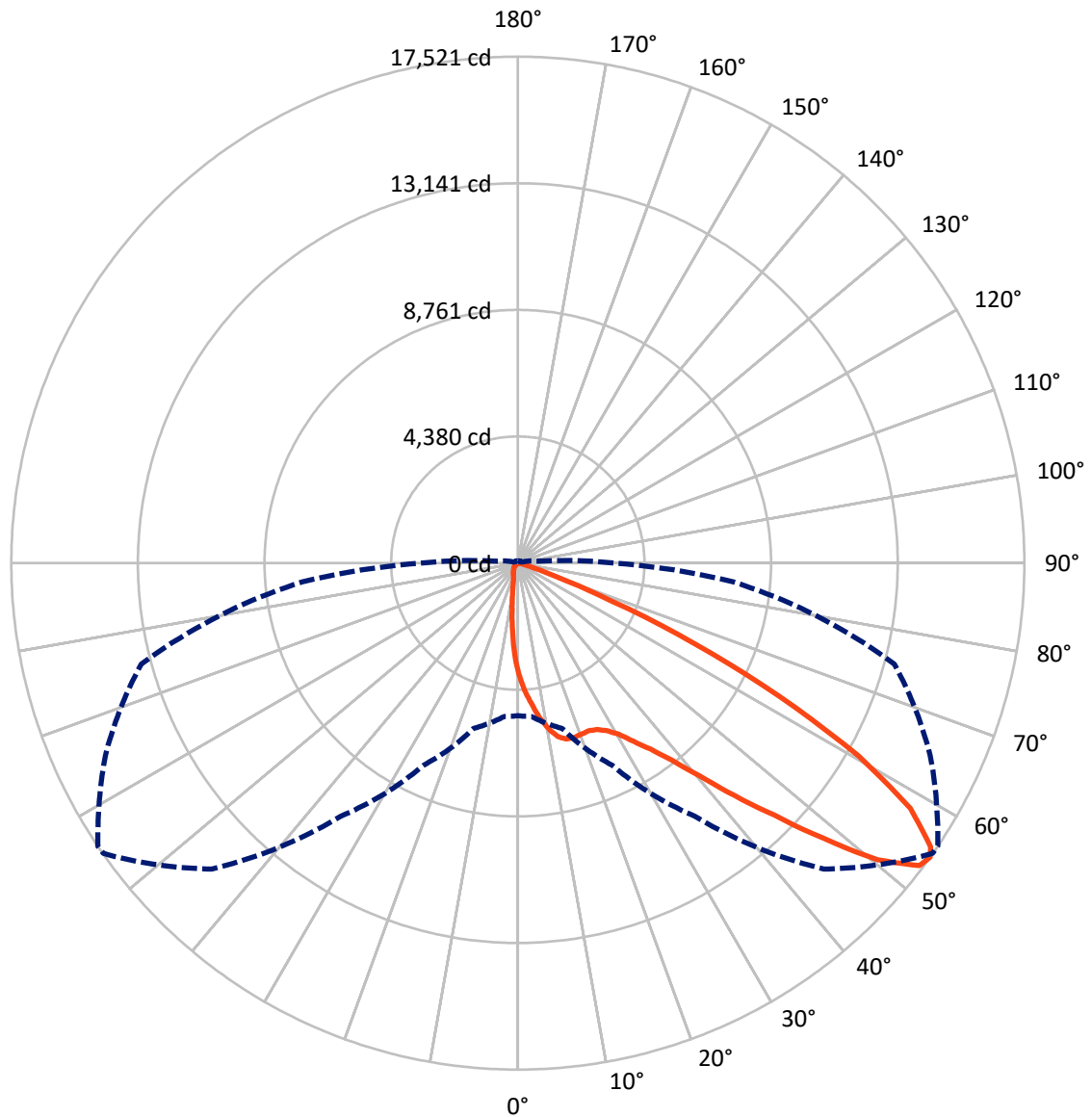
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	813.1	0.0	813.1
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	16381.9	0.0	16381.9
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	17195.0	0.0	17195.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.6	2.0
10°-20°	912.6	5.3
20°-30°	1580.5	9.2
30°-40°	2728.2	15.9
40°-50°	4643.6	27.0
50°-60°	4595.4	26.7
60°-70°	2097.4	12.2
70°-80°	269.4	1.6
80°-90°	30.4	0.2
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°	17195.0	100.0
0°-180°	17195.0	100.0



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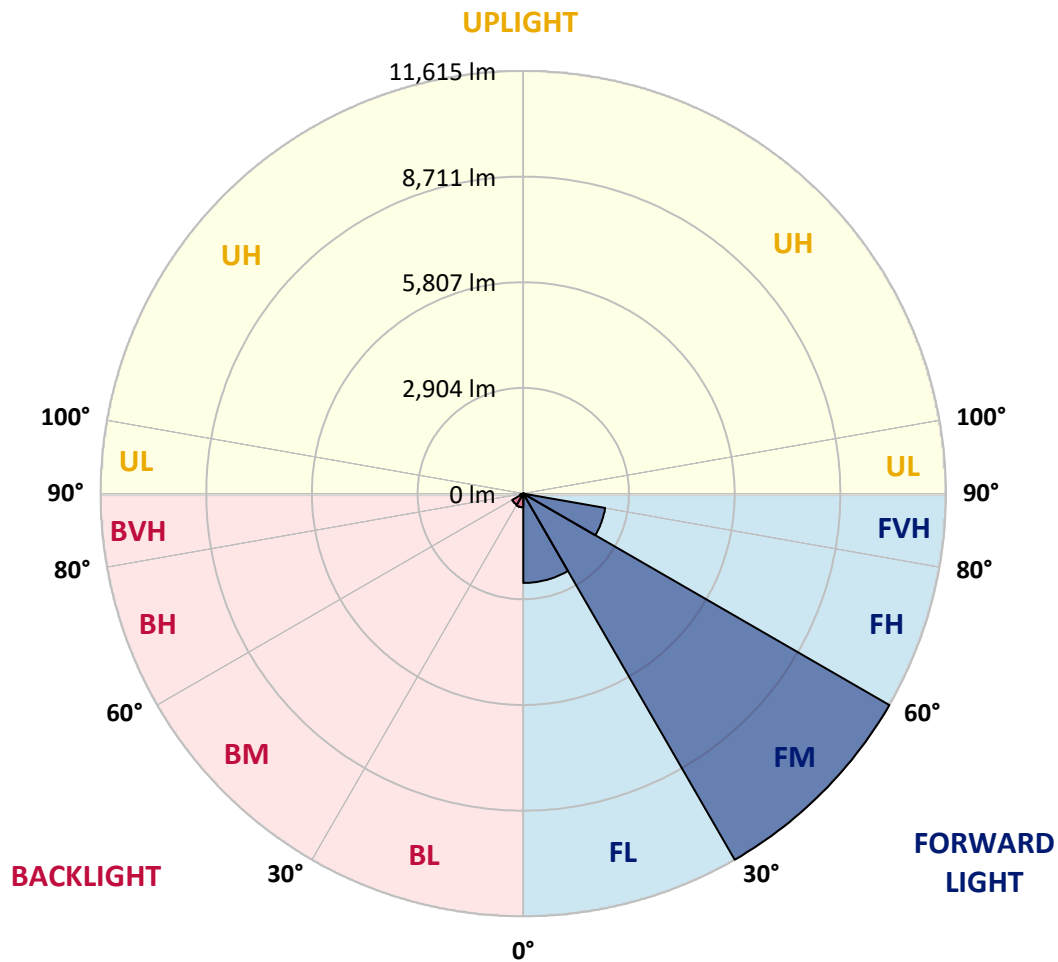
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2454.6	14.3			
FM (30°-60°)	11614.8	67.5			
FH (60°-80°)	2285.4	13.3			G2/5000
FVH (80°-90°)	27.1	0.2			G1/100
BL (0°-30°)	376.0	2.2	B1/500		
BM (30°-60°)	352.4	2.0	B1/1000		
BH (60°-80°)	81.4	0.5	B0/110		G0/110
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2
2.5°	4855.1	4821.4	4775.0	4739.0	4654.4	4532.5	4403.8	4403.8	4279.6	4106.8	3930.4
5°	5599.8	5577.8	5532.6	5439.7	5344.6	5174.1	4915.4	4870.1	4648.6	4335.3	4005.9
7.5°	5902.6	5913.1	5915.4	5891.0	5845.8	5677.6	5421.2	5389.9	5036.0	4616.1	4104.5
10°	5612.6	5663.6	5713.5	5814.5	5957.2	5997.8	5852.7	5820.3	5472.2	4900.3	4211.2
12.5°	5181.0	5208.9	5236.7	5395.7	5682.2	6010.5	6162.5	6161.3	5866.7	5183.4	4346.9
15°	4980.3	5004.7	5007.0	5077.8	5326.1	5804.0	6294.7	6312.1	6251.8	5532.6	4493.1
17.5°	5022.1	5041.8	5025.6	5043.0	5172.9	5576.6	6279.7	6337.7	6563.9	5867.8	4625.3
20°	5294.7	5333.0	5270.4	5221.6	5261.1	5516.3	6228.6	6309.8	6784.3	6195.0	4746.0
22.5°	5784.3	5805.2	5726.3	5592.9	5523.3	5642.8	6214.7	6294.7	6972.2	6463.0	4815.6
25°	6328.4	6321.4	6234.4	6084.8	5938.6	5898.0	6306.3	6378.3	7127.7	6704.3	4836.5
27.5°	6872.5	6893.4	6747.2	6561.6	6386.4	6280.8	6511.7	6565.0	7302.9	6979.2	4862.0
30°	7504.7	7471.1	7327.2	7114.9	6914.2	6766.9	6842.3	6857.4	7544.2	7343.5	4929.3
32.5°	8327.3	8234.4	8073.2	7702.0	7558.1	7308.7	7327.2	7345.8	7837.7	7704.3	5010.5
35°	9443.3	9438.6	9123.1	8623.1	8272.7	7963.0	7881.8	7896.9	8282.0	8240.2	5190.3
37.5°	10786.7	10805.2	10445.6	9942.1	9297.1	8805.2	8638.2	8640.5	8957.2	8980.4	5464.1
40°	11880.7	11929.4	11714.8	11374.9	10738.0	9968.8	9688.1	9662.5	9906.2	9877.2	5855.1
42.5°	12351.7	12396.9	12477.0	12595.3	12244.9	11610.4	10947.9	10982.7	11057.0	10854.0	6293.6
45°	12120.8	12192.7	12507.1	13238.0	13567.5	13354.0	12564.0	12442.2	12127.8	11915.5	6734.4
47.5°	11159.1	11334.3	11859.8	13076.7	14229.9	14951.5	14387.7	14226.4	13199.7	12690.4	7015.2
50°	9577.8	9588.3	10320.3	11876.0	13886.5	15959.6	16249.6	16129.0	14198.6	13125.5	7156.7
52.5°	6943.2	7171.8	7842.3	9644.0	12399.2	15806.5	17436.4	17386.5	15228.7	13348.2	7360.9
54°	5278.5	5322.6	5918.9	7706.6	10690.4	14965.4	17509.5	17521.1	15740.3	13482.8	7481.5
55°	4327.2	4221.6	4848.1	6565.0	9524.5	14221.8	17270.5	17326.2	15970.0	13552.4	7570.9
57.5°	2051.1	2052.2	2531.4	3462.9	5965.3	11043.1	15809.9	16007.2	15995.6	13671.9	7845.8
60°	1038.3	1045.3	1150.8	1598.6	2946.7	7341.2	13072.1	13541.9	14764.7	13689.3	7936.3
62.5°	726.2	718.1	700.7	769.2	1240.2	3730.9	9732.1	10140.5	12544.2	13026.8	7648.6
65°	621.8	604.4	555.7	545.3	626.5	1486.1	6061.6	6727.5	9577.8	11279.7	6829.6
67.5°	531.3	524.4	480.3	453.6	443.2	647.3	3127.7	3478.0	6546.5	8108.0	5172.9
70°	451.3	447.8	421.1	387.5	358.5	387.5	1160.1	1437.4	3648.5	4365.5	2440.9
72.5°	366.6	370.1	374.7	331.8	301.6	274.9	495.4	576.6	1526.7	1560.3	853.8
75°	321.3	317.9	317.9	288.9	251.7	204.2	272.6	293.5	467.5	433.9	198.4
77.5°	226.2	218.1	255.2	237.8	210.0	145.0	155.5	164.7	193.7	165.9	92.8
80°	156.6	156.6	163.6	213.5	189.1	105.6	95.1	102.1	114.9	98.6	53.4
82.5°	88.2	90.5	106.7	113.7	110.2	70.8	62.6	63.8	76.6	67.3	33.6
85°	10.4	17.4	61.5	60.3	45.2	31.3	34.8	36.0	47.6	41.8	19.7
87.5°	1.2	2.3	12.8	16.2	11.6	12.8	12.8	12.8	16.2	18.6	13.9
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°	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2	3820.2
2.5°	3835.3	3747.1	3537.2	3293.5	3138.1	2885.2	2671.7	2517.4	2479.2	2404.9	2426.9
5°	3830.7	3647.4	3219.3	2766.9	2284.3	1924.6	1656.6	1445.5	1352.7	1291.2	1248.3
7.5°	3833.0	3546.4	2859.7	2139.2	1562.7	1210.0	961.7	833.0	747.1	711.1	715.8
10°	3840.0	3432.8	2442.0	1584.7	1054.5	781.9	629.9	568.5	539.5	534.8	533.6
12.5°	3856.2	3308.6	2042.9	1176.3	737.8	568.5	510.4	489.6	480.3	480.3	476.8
15°	3873.6	3171.7	1711.2	874.7	568.5	488.4	461.7	451.3	445.5	445.5	444.3
17.5°	3873.6	3014.0	1401.4	678.7	489.6	449.0	428.1	414.2	409.5	409.5	408.4
20°	3849.2	2830.7	1126.5	546.4	444.3	411.8	391.0	375.9	370.1	367.8	366.6
22.5°	3764.5	2585.9	896.8	469.8	407.2	379.4	352.7	335.3	330.6	328.3	329.5
25°	3613.7	2309.8	710.0	413.0	373.6	339.9	316.7	303.9	299.3	299.3	300.5
27.5°	3458.3	2020.9	562.7	370.1	333.0	302.8	284.2	276.1	274.9	278.4	279.6
30°	3314.4	1730.9	455.9	335.3	297.0	271.5	258.7	256.4	256.4	257.5	258.7
32.5°	3154.3	1476.8	381.7	305.1	268.0	245.9	239.0	239.0	241.3	241.3	243.6
35°	3053.4	1258.7	335.3	276.1	245.9	227.4	222.7	223.9	227.4	232.0	234.3
37.5°	2998.9	1084.7	305.1	252.9	225.1	212.3	207.7	210.0	218.1	226.2	227.4
40°	3003.5	953.6	280.7	233.2	208.8	194.9	191.4	198.4	206.5	214.6	215.8
42.5°	3054.6	856.2	257.5	210.0	194.9	175.2	174.0	181.0	184.5	192.6	193.7
45°	3114.9	785.4	233.2	185.6	169.4	152.0	153.1	158.9	163.6	176.3	178.7
47.5°	3133.5	736.7	205.3	157.8	139.2	133.4	134.6	138.1	147.3	158.9	160.1
50°	3154.3	706.5	178.7	133.4	118.3	117.2	118.3	120.7	126.5	131.1	129.9
52.5°	3243.7	705.3	156.6	116.0	100.9	103.2	104.4	103.2	98.6	91.6	89.3
54°	3327.2	708.8	146.2	107.9	92.8	96.3	95.1	89.3	77.7	70.8	67.3
55°	3394.5	712.3	140.4	102.1	88.2	89.3	90.5	78.9	63.8	56.8	54.5
57.5°	3526.7	704.2	126.5	89.3	77.7	73.1	71.9	52.2	34.8	30.2	27.8
60°	3460.6	635.7	114.9	76.6	66.1	59.2	48.7	29.0	17.4	12.8	12.8
62.5°	3200.7	539.5	102.1	62.6	54.5	45.2	25.5	16.2	8.1	4.6	3.5
65°	2863.1	453.6	91.6	49.9	42.9	29.0	13.9	10.4	3.5	0.0	0.0
67.5°	2128.8	336.4	77.7	39.4	32.5	18.6	9.3	5.8	1.2	0.0	0.0
70°	986.1	205.3	66.1	30.2	23.2	13.9	7.0	3.5	0.0	0.0	0.0
72.5°	283.1	128.8	54.5	22.0	16.2	11.6	5.8	2.3	1.2	0.0	0.0
75°	98.6	103.2	40.6	16.2	12.8	8.1	4.6	2.3	1.2	0.0	0.0
77.5°	59.2	83.5	25.5	13.9	10.4	7.0	4.6	2.3	1.2	1.2	0.0
80°	33.6	55.7	16.2	11.6	9.3	5.8	3.5	2.3	1.2	1.2	0.0
82.5°	18.6	26.7	12.8	10.4	8.1	5.8	3.5	2.3	1.2	1.2	1.2
85°	15.1	13.9	10.4	9.3	7.0	4.6	3.5	1.2	0.0	0.0	0.0
87.5°	11.6	9.3	9.3	9.3	7.0	4.6	3.5	1.2	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)