

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: P457950

Luminaire Tested: **GALN-SA9B-750-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457950  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9B-750-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38563 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G5

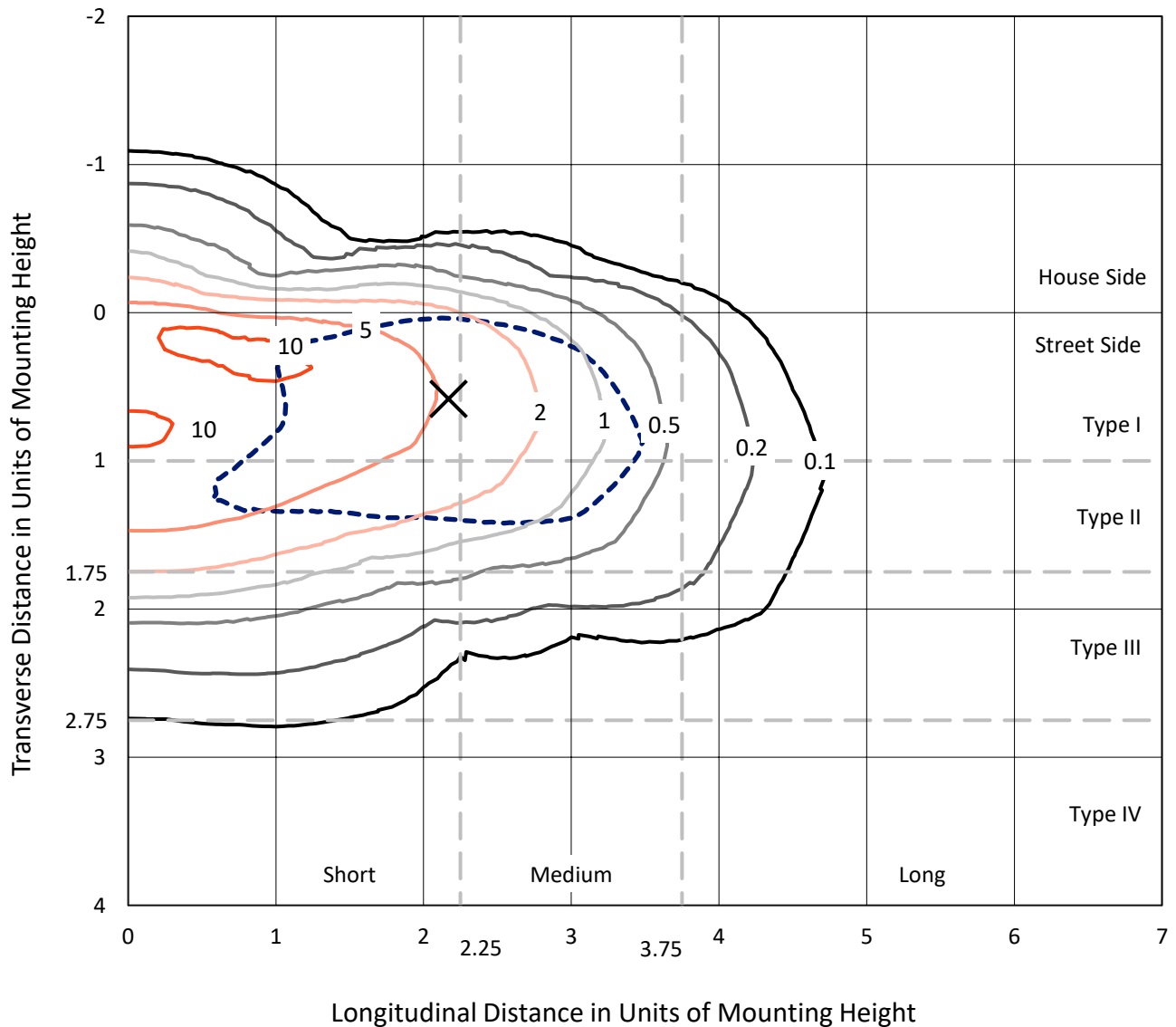
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

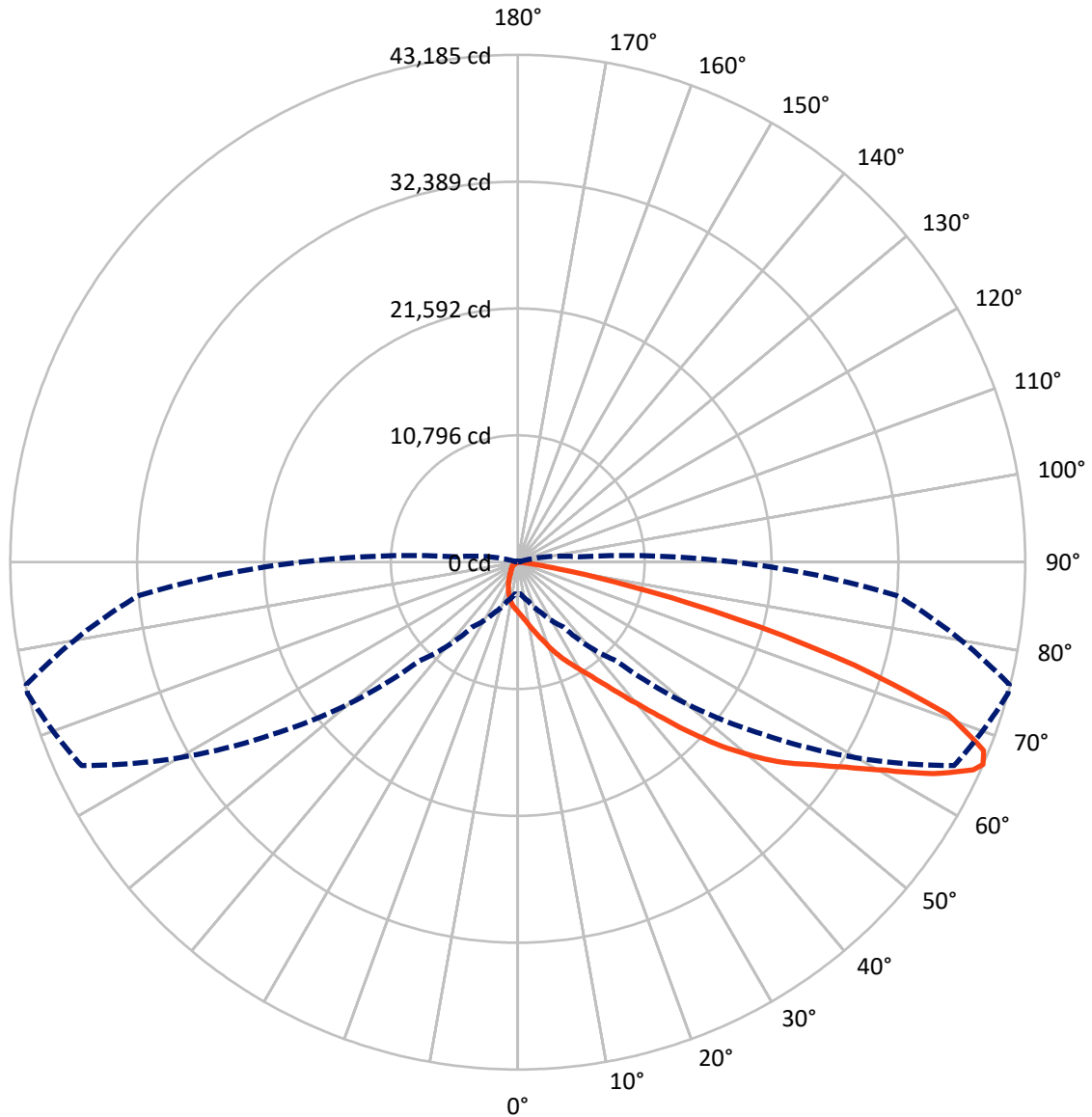
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2380.7	0.0	2380.7
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	36182.3	0.0	36182.3
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	38563.0	0.0	38563.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.8	1.1
10°-20°	1197.1	3.1
20°-30°	2067.1	5.4
30°-40°	3728.7	9.7
40°-50°	6736.0	17.5
50°-60°	10501.5	27.2
60°-70°	9976.0	25.9
70°-80°	3738.8	9.7
80°-90°	210.9	0.5
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°	38563.0	100.0
0°-180°	38563.0	100.0



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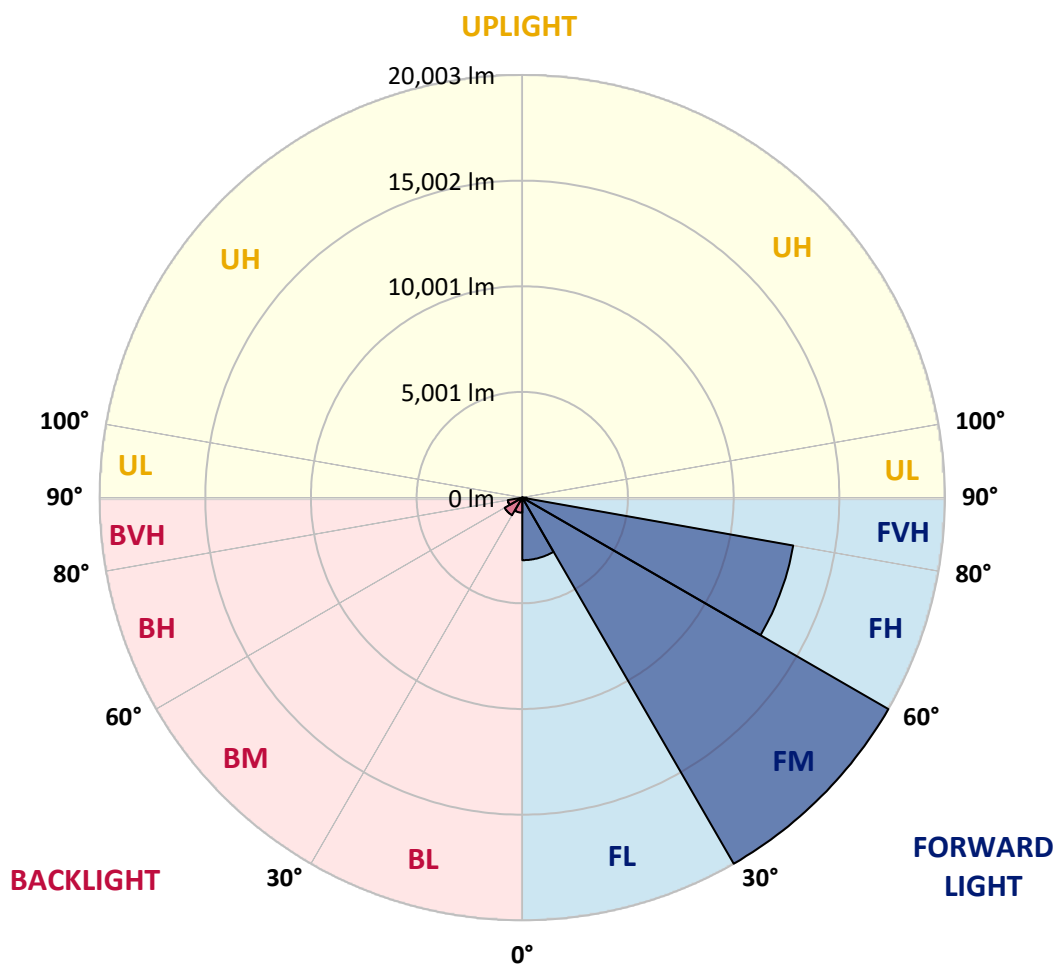
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2960.0	7.7			
FM	(30°-60°)	20002.6	51.9			
FH	(60°-80°)	13019.6	33.8			G5
FVH	(80°-90°)	200.1	0.5			G2/225
BL	(0°-30°)	711.0	1.8	B2/1000		
BM	(30°-60°)	963.7	2.5	B1/1000		
BH	(60°-80°)	695.2	1.8	B2/1000		G2/1000
BVH	(80°-90°)	10.9	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4217.2	4217.2	4217.2	4217.2	4217.2	4217.2	4217.2	4217.2	4217.2	4217.2	4217.2
2.5°	5038.5	4975.7	4995.7	4967.2	4901.6	4804.6	4719.1	4596.5	4473.9	4453.9	4317.0
5°	5702.8	5685.7	5662.9	5580.2	5534.6	5386.3	5209.5	4998.5	4744.8	4699.1	4451.1
7.5°	6156.2	6147.7	6159.1	6116.3	6076.4	5942.4	5754.2	5466.2	5072.7	5047.0	4633.6
10°	6304.5	6327.3	6370.1	6438.5	6501.2	6458.5	6315.9	5956.6	5497.5	5423.4	4841.7
12.5°	6218.9	6244.6	6347.3	6529.7	6732.2	6849.1	6792.1	6529.7	5948.1	5888.2	5075.5
15°	5999.4	6030.7	6176.2	6458.5	6820.6	7151.4	7293.9	7105.7	6472.7	6375.8	5357.8
17.5°	5674.3	5719.9	5928.1	6301.6	6797.8	7368.1	7770.1	7707.4	7031.6	6940.3	5665.8
20°	5429.1	5463.3	5640.1	6067.8	6700.8	7487.8	8223.5	8400.3	7721.6	7564.8	6027.9
22.5°	5591.6	5603.0	5662.9	5919.5	6526.9	7519.2	8622.7	9121.7	8454.5	8314.7	6404.3
25°	6387.2	6273.1	6213.2	6156.2	6489.8	7490.7	8984.8	9874.5	9184.4	9036.1	6777.8
27.5°	7641.8	7590.5	7288.2	6883.3	6806.3	7527.7	9224.3	10587.3	9871.6	9711.9	7142.8
30°	9007.6	8919.2	8733.9	8140.8	7544.8	7790.1	9398.3	11280.2	10684.3	10473.3	7476.4
32.5°	10262.2	10319.3	10042.7	9432.5	8742.4	8348.9	9623.5	12035.8	11616.7	11354.3	7864.2
35°	11725.0	11839.1	11414.2	10829.7	10022.7	9358.3	10062.6	12888.4	12800.0	12469.2	8463.0
37.5°	13210.6	13279.0	13019.6	12198.4	11471.2	10641.5	10889.6	13940.6	14257.1	13974.8	9178.7
40°	14459.5	14553.6	14362.6	13632.6	12857.0	12127.1	12090.0	15086.8	15990.7	15699.9	10245.1
42.5°	15414.8	15486.0	15491.7	14975.6	14277.0	13946.3	13621.2	16549.6	18163.5	17827.1	11482.7
45°	16620.9	16723.6	16663.7	16313.0	15791.1	15731.3	15563.0	18317.5	20764.0	20339.2	13088.0
47.5°	18485.7	18554.2	18405.9	17992.4	17462.1	17556.2	17456.4	20299.2	23415.8	23050.9	14750.4
50°	19780.3	19894.3	20105.3	20270.7	19885.8	19537.9	19241.4	22149.8	25933.6	25605.7	16449.8
52.5°	19766.0	19954.2	20621.4	21454.1	22295.2	22189.7	21337.2	24194.3	28337.4	27932.5	18046.6
55°	18434.4	18799.4	19780.3	21257.3	23586.9	24747.4	24359.7	26560.9	30413.2	30139.5	19897.2
57.5°	15685.6	15908.1	17271.0	19335.5	22865.5	25950.7	27861.2	29768.8	32902.5	32774.2	22771.4
60°	10550.2	10650.0	12403.7	14955.7	19466.6	24750.3	30427.5	33649.6	35967.8	35905.0	26127.5
62.5°	6045.0	6087.8	7359.5	9512.3	13852.2	20975.0	30644.2	38437.1	39643.2	39677.5	30011.2
65°	3253.5	3276.3	4302.8	5583.1	8428.8	14950.0	27556.1	41060.4	42614.4	42680.0	32417.8
66°	2808.6	2700.3	3424.6	4759.0	6706.5	11899.0	25602.9	40966.3	43184.7	43113.4	32332.2
67.5°	2135.7	2232.7	2734.5	3658.4	4970.0	8460.2	21137.6	39144.2	42751.3	42528.9	31017.7
70°	1528.4	1568.3	1947.5	2609.0	3384.6	4642.1	13507.2	32511.9	38856.3	38556.9	27022.9
72.5°	986.6	1029.4	1380.1	1887.6	2446.5	2534.9	7562.0	23490.0	29957.0	29914.2	20350.6
75°	704.3	744.2	912.5	1351.6	1839.2	1568.3	3641.3	15831.1	19044.6	18916.3	12589.0
77.5°	510.4	530.4	610.2	883.9	1314.5	1123.5	1688.0	8454.5	9481.0	9928.6	5563.1
80°	293.7	310.8	424.9	538.9	889.6	767.0	807.0	3393.2	3498.7	3330.5	1739.4
82.5°	145.4	165.4	253.8	367.8	556.0	516.1	370.7	1020.8	1077.8	1049.3	439.1
85°	34.2	42.8	142.6	242.4	270.9	231.0	179.6	299.4	370.7	362.1	168.2
87.5°	2.9	5.7	51.3	42.8	45.6	77.0	62.7	77.0	119.8	111.2	59.9
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°	4217.2	4217.2	4217.2	4217.2	4217.2	4217.2	4217.2	4217.2	4217.2	4217.2	4217.2
2.5°	4254.3	4200.1	4043.3	3889.3	3761.0	3627.0	3504.4	3433.1	3404.6	3373.2	3387.5
5°	4314.2	4183.0	3866.5	3592.8	3324.8	3096.6	2914.1	2797.2	2740.2	2731.7	2717.4
7.5°	4394.0	4168.8	3678.3	3250.6	2899.9	2646.1	2438.0	2269.7	2218.4	2172.8	2135.7
10°	4491.0	4143.1	3444.5	2891.3	2517.8	2198.4	1924.7	1725.1	1622.5	1593.9	1613.9
12.5°	4593.6	4094.6	3199.3	2560.6	2130.0	1722.3	1468.5	1368.7	1340.2	1328.8	1331.6
15°	4696.3	4034.8	2942.7	2241.2	1696.6	1374.4	1257.5	1231.8	1220.4	1214.7	1209.0
17.5°	4790.4	3937.8	2654.7	1930.4	1374.4	1174.8	1132.0	1109.2	1086.4	1077.8	1063.6
20°	4901.6	3826.6	2395.2	1582.5	1163.4	1063.6	1012.3	969.5	935.3	912.5	909.6
22.5°	5007.1	3684.0	2124.3	1311.7	1060.7	955.2	872.5	826.9	787.0	758.5	767.0
25°	5064.1	3510.1	1881.9	1143.4	966.6	846.9	755.6	698.6	655.8	641.6	638.7
27.5°	5064.1	3296.2	1645.3	1046.5	881.1	749.9	655.8	601.6	573.1	553.2	556.0
30°	5024.2	3059.6	1425.7	972.3	807.0	664.4	576.0	527.5	504.7	490.4	487.6
32.5°	4992.8	2834.3	1237.5	901.0	730.0	590.2	513.3	476.2	453.4	439.1	439.1
35°	5041.3	2640.4	1092.1	829.8	658.7	533.2	464.8	430.6	407.8	396.3	393.5
37.5°	5169.6	2463.6	980.9	752.8	593.1	484.7	430.6	390.6	367.8	353.6	347.9
40°	5486.1	2363.8	898.2	681.5	530.4	444.8	390.6	353.6	325.1	310.8	308.0
42.5°	5993.7	2366.7	818.4	615.9	481.9	410.6	356.4	313.7	282.3	268.0	265.2
45°	6757.9	2475.0	755.6	553.2	439.1	373.5	319.4	273.7	245.2	231.0	231.0
47.5°	7673.2	2686.0	701.4	499.0	399.2	339.3	282.3	236.7	208.2	196.7	196.7
50°	8665.5	2959.8	647.3	442.0	365.0	302.3	242.4	205.3	182.5	173.9	173.9
52.5°	9677.7	3290.5	593.1	396.3	327.9	262.3	208.2	182.5	162.5	156.8	154.0
55°	11006.5	3712.5	536.1	347.9	288.0	225.3	185.3	159.7	136.9	128.3	125.5
57.5°	13050.9	4348.4	473.3	305.1	236.7	188.2	159.7	134.0	108.4	94.1	91.2
60°	15517.4	5124.0	407.8	268.0	191.0	154.0	128.3	102.7	79.8	62.7	59.9
62.5°	17827.1	5617.3	345.0	225.3	151.1	116.9	91.2	77.0	57.0	39.9	37.1
65°	18847.9	5451.9	285.1	182.5	119.8	82.7	59.9	54.2	34.2	17.1	14.3
66°	18508.5	5206.7	262.3	165.4	108.4	71.3	51.3	45.6	25.7	8.6	8.6
67.5°	17507.7	4627.8	228.1	142.6	94.1	57.0	39.9	34.2	14.3	2.9	0.0
70°	15001.3	3743.9	179.6	105.5	68.4	39.9	22.8	17.1	8.6	0.0	0.0
72.5°	11522.6	2788.7	142.6	79.8	48.5	22.8	11.4	5.7	8.6	0.0	0.0
75°	7060.1	1593.9	111.2	59.9	31.4	14.3	8.6	0.0	8.6	2.9	0.0
77.5°	3133.7	715.7	74.1	39.9	22.8	11.4	5.7	0.0	5.7	2.9	0.0
80°	792.7	233.8	42.8	28.5	17.1	8.6	2.9	0.0	5.7	5.7	2.9
82.5°	216.7	85.5	31.4	22.8	14.3	8.6	2.9	0.0	5.7	5.7	5.7
85°	85.5	39.9	28.5	22.8	17.1	8.6	2.9	0.0	5.7	5.7	5.7
87.5°	39.9	28.5	28.5	25.7	20.0	8.6	2.9	0.0	5.7	2.9	5.7
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)