

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: P457907

Luminaire Tested: **GALN-SA9B-740-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457907  
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-SA9B-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA 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: 42264 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

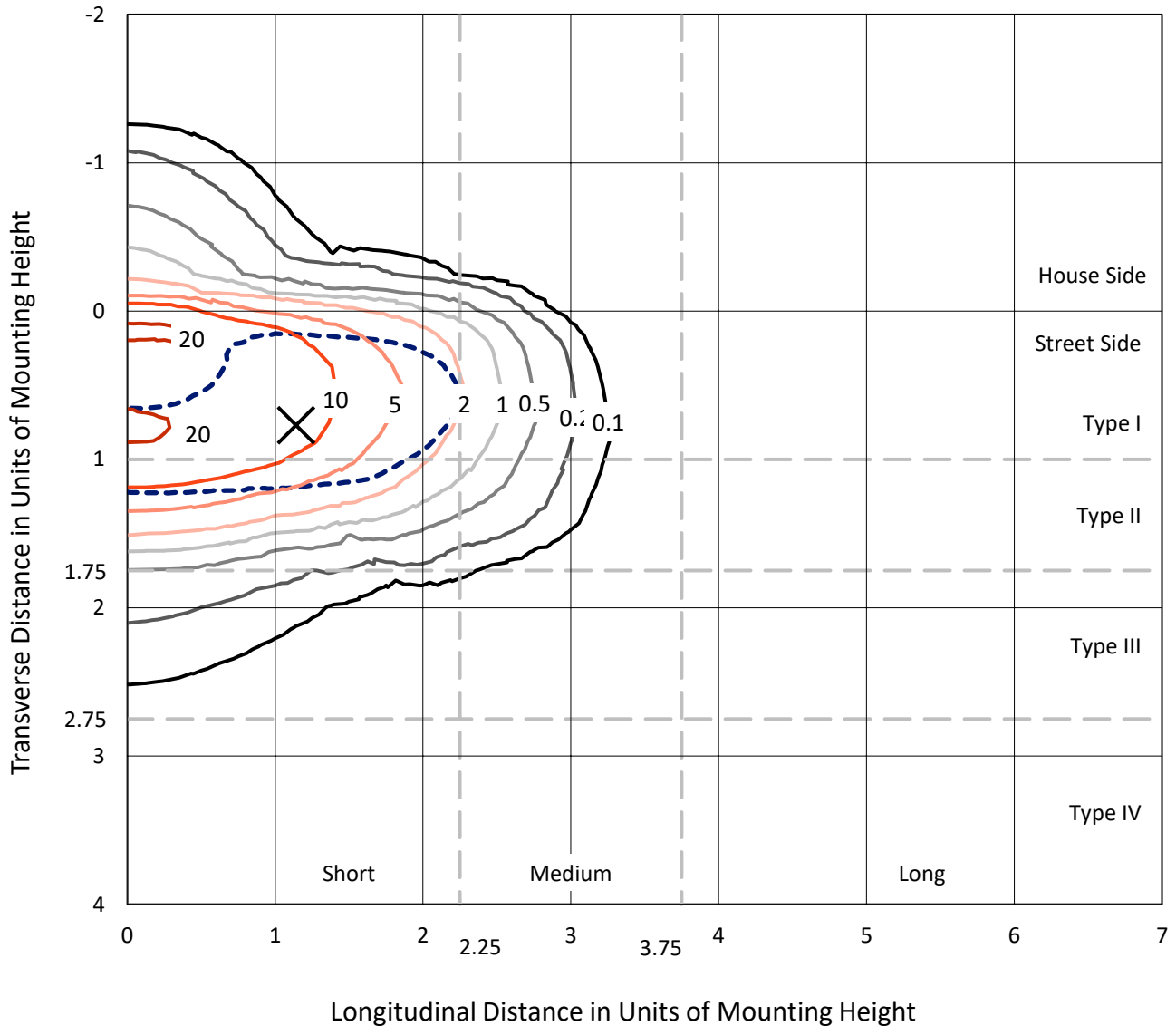
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

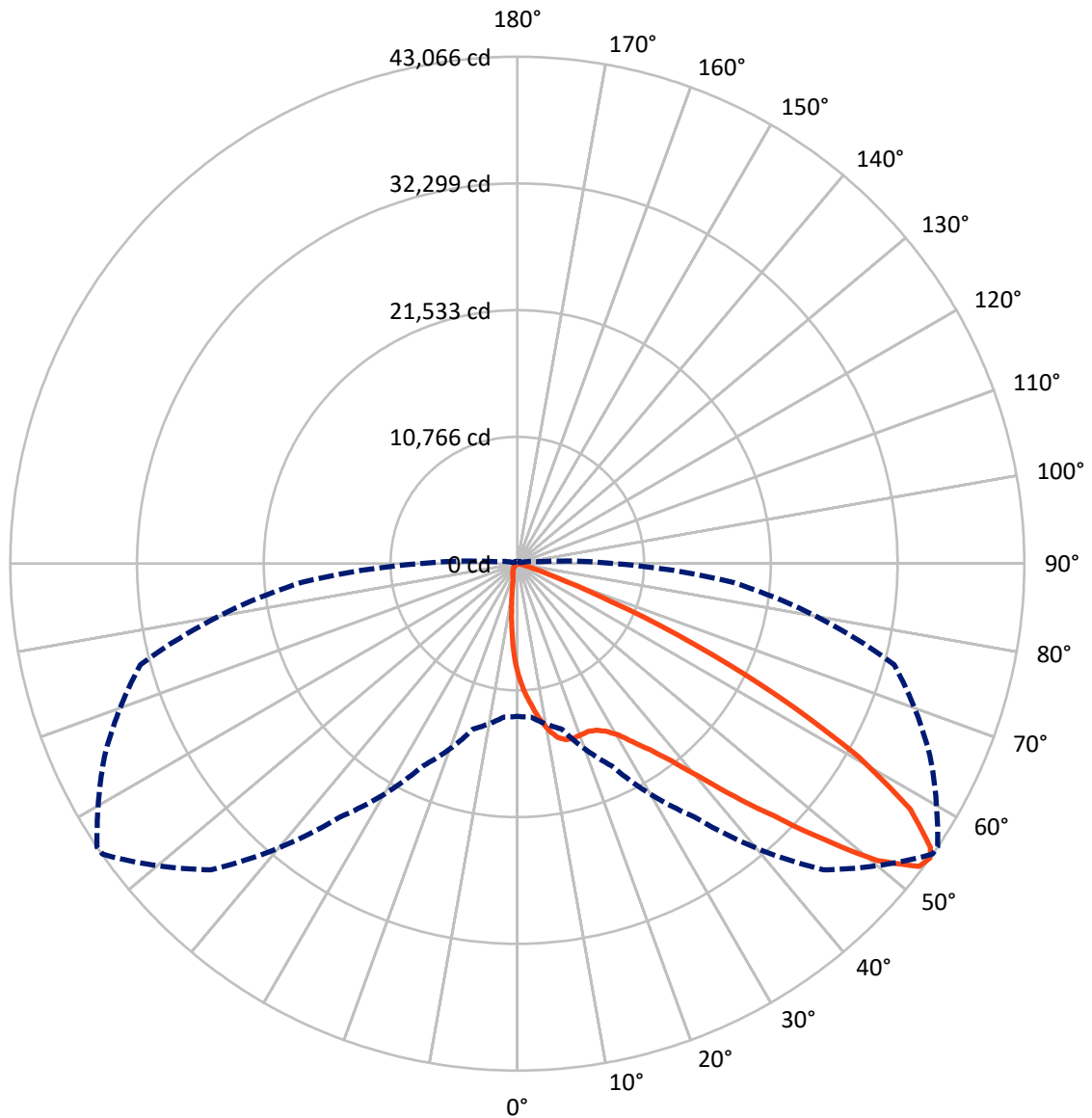
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P457907  
CATALOG NUMBER: GALN-SA9B-740-U-AFL-HSS

### 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	1998.6	0.0	1998.6
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	40265.4	0.0	40265.4
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	42264.0	0.0	42264.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	829.7	2.0
10°-20°	2243.1	5.3
20°-30°	3884.8	9.2
30°-40°	6705.8	15.9
40°-50°	11413.5	27.0
50°-60°	11295.1	26.7
60°-70°	5155.3	12.2
70°-80°	662.1	1.6
80°-90°	74.6	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°	42264.0	100.0
0°-180°	42264.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P457907

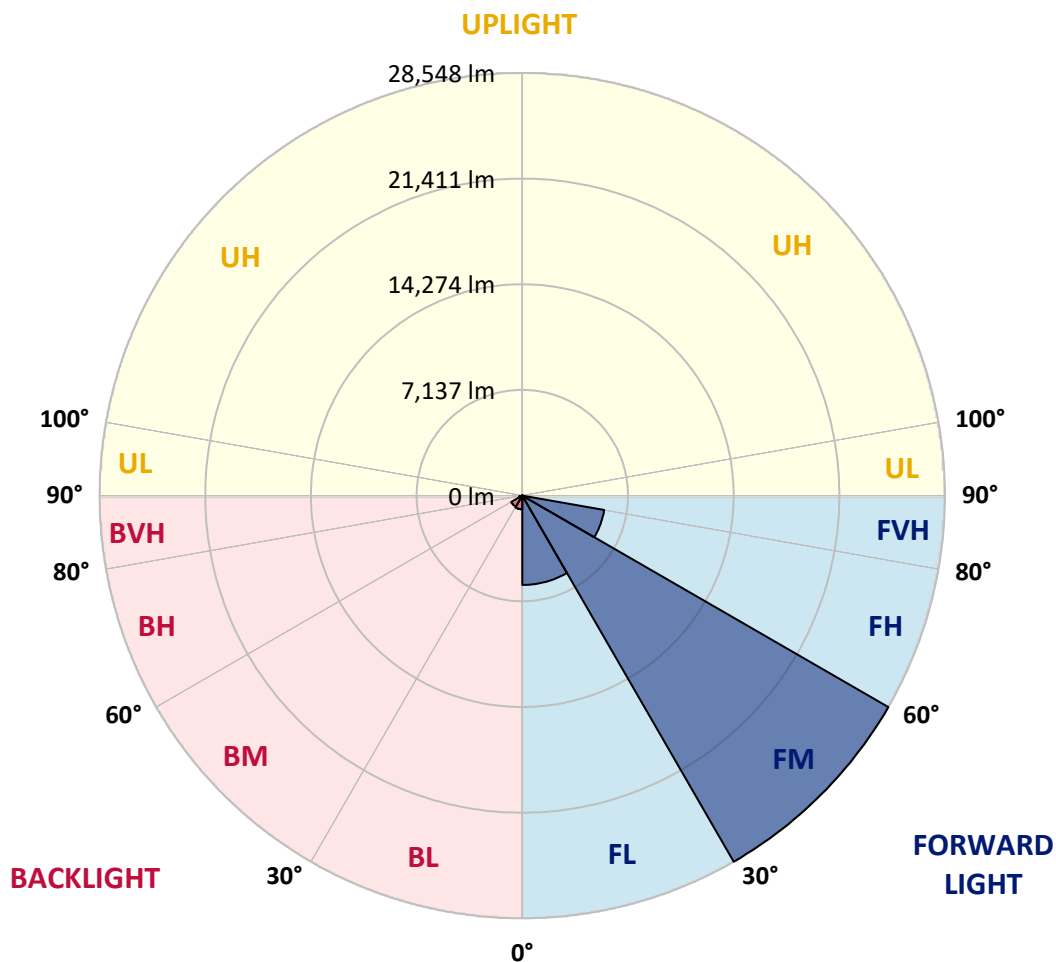
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6033.3	14.3			
FM	(30°-60°)	28548.2	67.5			
FH	(60°-80°)	5617.3	13.3			G3/7500
FVH	(80°-90°)	66.6	0.2			G1/100
BL	(0°-30°)	924.3	2.2	B2/1000		
BM	(30°-60°)	866.1	2.0	B1/1000		
BH	(60°-80°)	200.1	0.5	B1/500		G1/500
BVH	(80°-90°)	8.0	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





REPORT NUMBER: P457907

CATALOG NUMBER: GALN-SA9B-740-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9389.8	9389.8	9389.8	9389.8	9389.8	9389.8	9389.8	9389.8	9389.8	9389.8	9389.8
2.5°	11933.3	11850.7	11736.6	11648.2	11440.0	11140.6	10824.1	10824.1	10519.0	10094.2	9660.7
5°	13764.0	13709.8	13598.6	13370.5	13136.7	12717.5	12081.6	11970.4	11425.8	10655.9	9846.1
7.5°	14508.2	14533.9	14539.6	14479.7	14368.5	13955.0	13324.9	13247.9	12378.2	11345.9	10088.5
10°	13795.3	13920.8	14043.4	14291.5	14642.2	14742.0	14385.6	14305.8	13450.3	12044.6	10350.8
12.5°	12734.6	12803.0	12871.5	13262.1	13966.4	14773.4	15146.9	15144.1	14419.8	12740.3	10684.4
15°	12241.3	12301.2	12306.9	12480.8	13091.0	14265.8	15472.0	15514.8	15366.5	13598.6	11043.7
17.5°	12344.0	12392.4	12352.5	12395.3	12714.6	13707.0	15434.9	15577.5	16133.5	14422.7	11368.8
20°	13014.0	13108.1	12954.2	12834.4	12931.4	13558.7	15309.5	15509.1	16675.3	15226.8	11665.3
22.5°	14217.4	14268.7	14074.8	13746.9	13575.8	13869.5	15275.3	15472.0	17137.3	15885.5	11836.4
25°	15554.7	15537.6	15323.7	14955.9	14596.6	14496.8	15500.5	15677.3	17519.3	16478.6	11887.7
27.5°	16892.0	16943.4	16584.1	16127.8	15697.3	15437.8	16005.2	16136.4	17949.9	17154.4	11950.5
30°	18446.1	18363.4	18009.8	17488.0	16994.7	16632.5	16817.9	16855.0	18543.0	18049.7	12115.8
32.5°	20467.8	20239.6	19843.3	18930.8	18577.2	17964.2	18009.8	18055.4	19264.4	18936.5	12315.4
35°	23210.9	23199.4	22423.9	21194.9	20333.7	19572.4	19372.8	19409.9	20356.5	20253.9	12757.4
37.5°	26512.8	26558.5	25674.5	24437.0	22851.6	21642.6	21231.9	21237.6	22016.1	22073.1	13430.4
40°	29201.8	29321.5	28794.0	27958.5	26393.1	24502.6	23812.5	23749.8	24348.6	24277.3	14391.3
42.5°	30359.5	30470.7	30667.4	30958.3	30097.1	28537.4	26909.2	26994.7	27177.2	26678.2	15469.2
45°	29792.0	29968.8	30741.6	32538.0	33347.8	32823.1	30881.3	30581.9	29809.1	29287.3	16552.7
47.5°	27428.2	27858.7	29150.4	32141.6	34976.0	36749.6	35363.8	34967.4	32443.9	31192.1	17242.8
50°	23541.6	23567.3	25366.6	29190.4	34131.9	39227.5	39940.3	39643.8	34899.0	32261.4	17590.6
52.5°	17066.0	17627.7	19275.8	23704.2	30476.4	38851.1	42857.4	42734.8	37431.1	32808.9	18092.5
54°	12974.1	13082.5	14548.1	18942.2	26276.2	36783.8	43037.0	43065.5	38688.6	33139.6	18389.0
55°	10635.9	10376.4	11916.2	16136.4	23410.5	34956.0	42449.6	42586.5	39253.1	33310.7	18608.6
57.5°	5041.4	5044.2	6221.9	8511.6	14662.2	27143.0	38859.6	39344.4	39315.9	33604.4	19284.4
60°	2552.1	2569.2	2828.6	3929.3	7242.7	18044.0	32130.2	33285.1	36290.5	33647.2	19506.8
62.5°	1785.0	1765.1	1722.3	1890.5	3048.2	9170.3	23920.9	24924.6	30832.8	32019.0	18799.7
65°	1528.4	1485.6	1365.8	1340.2	1539.8	3652.7	14898.9	16535.6	23541.6	27724.7	16786.5
67.5°	1306.0	1288.9	1180.5	1114.9	1089.3	1591.1	7687.5	8548.7	16090.8	19928.8	12714.6
70°	1109.2	1100.7	1035.1	952.4	881.1	952.4	2851.5	3533.0	8967.8	10730.0	5999.5
72.5°	901.1	909.6	921.0	815.5	741.4	675.8	1217.6	1417.2	3752.5	3835.2	2098.7
75°	789.9	781.3	781.3	710.0	618.8	501.9	670.1	721.4	1149.1	1066.4	487.6
77.5°	556.0	536.1	627.3	584.5	516.1	356.4	382.1	404.9	476.2	407.8	228.1
80°	384.9	384.9	402.1	524.7	464.8	259.5	233.8	250.9	282.3	242.4	131.2
82.5°	216.7	222.4	262.3	279.4	270.9	173.9	154.0	156.8	188.2	165.4	82.7
85°	25.7	42.8	151.1	148.3	111.2	77.0	85.5	88.4	116.9	102.7	48.5
87.5°	2.9	5.7	31.4	39.9	28.5	31.4	31.4	31.4	39.9	45.6	34.2
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°	9389.8	9389.8	9389.8	9389.8	9389.8	9389.8	9389.8	9389.8	9389.8	9389.8	9389.8
2.5°	9426.9	9210.2	8694.1	8095.3	7713.2	7091.6	6566.9	6187.7	6093.6	5911.1	5965.2
5°	9415.5	8965.0	7912.8	6800.7	5614.5	4730.6	4071.9	3552.9	3324.8	3173.7	3068.2
7.5°	9421.2	8716.9	7028.8	5258.1	3840.9	2974.1	2363.9	2047.3	1836.3	1747.9	1759.3
10°	9438.3	8437.5	6002.3	3895.1	2592.0	1921.9	1548.3	1397.2	1325.9	1314.5	1311.7
12.5°	9478.2	8132.4	5021.4	2891.4	1813.5	1397.2	1254.6	1203.3	1180.5	1180.5	1171.9
15°	9521.0	7795.9	4205.9	2150.0	1397.2	1200.5	1134.9	1109.2	1095.0	1095.0	1092.1
17.5°	9521.0	7408.1	3444.6	1668.1	1203.3	1103.5	1052.2	1018.0	1006.6	1006.6	1003.7
20°	9461.1	6957.6	2768.8	1343.0	1092.1	1012.3	960.9	923.9	909.6	903.9	901.1
22.5°	9253.0	6355.9	2204.2	1154.8	1000.9	932.4	866.8	824.1	812.7	807.0	809.8
25°	8882.3	5677.2	1745.1	1015.1	918.2	835.5	778.4	747.1	735.7	735.7	738.5
27.5°	8500.2	4967.2	1383.0	909.6	818.4	744.2	698.6	678.6	675.8	684.3	687.2
30°	8146.6	4254.4	1120.6	824.1	730.0	667.2	635.9	630.2	630.2	633.0	635.9
32.5°	7753.1	3629.9	938.1	749.9	658.7	604.5	587.4	587.4	593.1	593.1	598.8
35°	7505.0	3093.8	824.1	678.6	604.5	558.9	547.5	550.3	558.9	570.3	576.0
37.5°	7371.0	2666.1	749.9	621.6	553.2	521.8	510.4	516.1	536.1	556.0	558.9
40°	7382.4	2343.9	690.1	573.1	513.3	479.0	470.5	487.6	507.6	527.5	530.4
42.5°	7507.9	2104.4	633.0	516.1	479.0	430.6	427.7	444.8	453.4	473.3	476.2
45°	7656.2	1930.4	573.1	456.2	416.3	373.5	376.4	390.6	402.1	433.4	439.1
47.5°	7701.8	1810.7	504.7	387.8	342.2	327.9	330.8	339.3	362.1	390.6	393.5
50°	7753.1	1736.5	439.1	327.9	290.8	288.0	290.8	296.6	310.8	322.2	319.4
52.5°	7972.7	1733.7	384.9	285.1	248.1	253.8	256.6	253.8	242.4	225.3	219.6
54°	8178.0	1742.2	359.3	265.2	228.1	236.7	233.8	219.6	191.0	173.9	165.4
55°	8343.4	1750.8	345.0	250.9	216.7	219.6	222.4	193.9	156.8	139.7	134.0
57.5°	8668.4	1730.8	310.8	219.6	191.0	179.6	176.8	128.3	85.5	74.1	68.4
60°	8505.9	1562.6	282.3	188.2	162.5	145.4	119.8	71.3	42.8	31.4	31.4
62.5°	7867.2	1325.9	250.9	154.0	134.0	111.2	62.7	39.9	20.0	11.4	8.6
65°	7037.4	1114.9	225.3	122.6	105.5	71.3	34.2	25.7	8.6	0.0	0.0
67.5°	5232.4	826.9	191.0	96.9	79.8	45.6	22.8	14.3	2.9	0.0	0.0
70°	2423.7	504.7	162.5	74.1	57.0	34.2	17.1	8.6	0.0	0.0	0.0
72.5°	695.8	316.5	134.0	54.2	39.9	28.5	14.3	5.7	2.9	0.0	0.0
75°	242.4	253.8	99.8	39.9	31.4	20.0	11.4	5.7	2.9	0.0	0.0
77.5°	145.4	205.3	62.7	34.2	25.7	17.1	11.4	5.7	2.9	2.9	0.0
80°	82.7	136.9	39.9	28.5	22.8	14.3	8.6	5.7	2.9	2.9	0.0
82.5°	45.6	65.6	31.4	25.7	20.0	14.3	8.6	5.7	2.9	2.9	2.9
85°	37.1	34.2	25.7	22.8	17.1	11.4	8.6	2.9	0.0	0.0	0.0
87.5°	28.5	22.8	22.8	22.8	17.1	11.4	8.6	2.9	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)