

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: STREETWORKS

Report Number: P458097

Luminaire Tested: **GLAN-SA9C-727-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458097  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9C-727-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42675 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

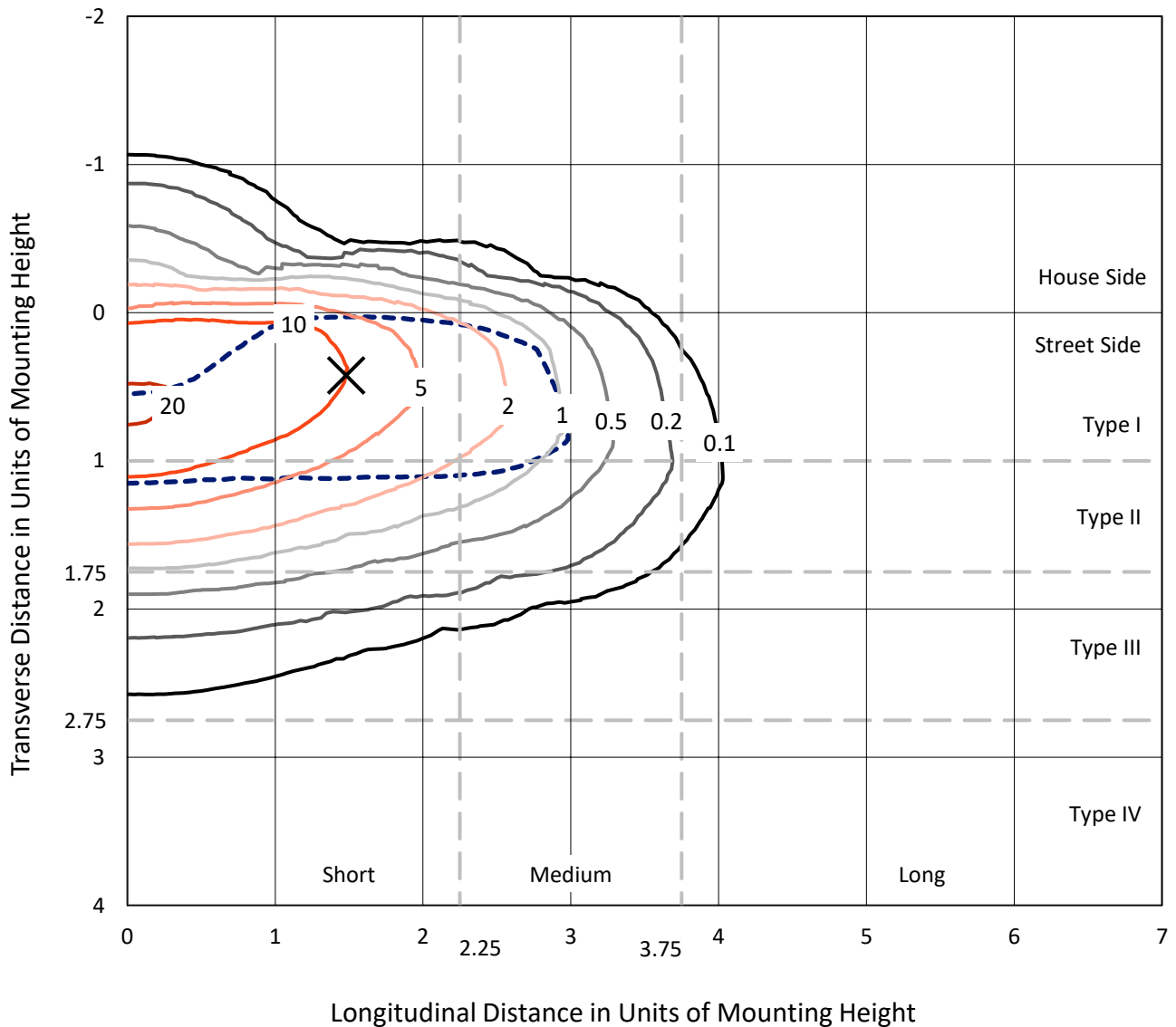
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

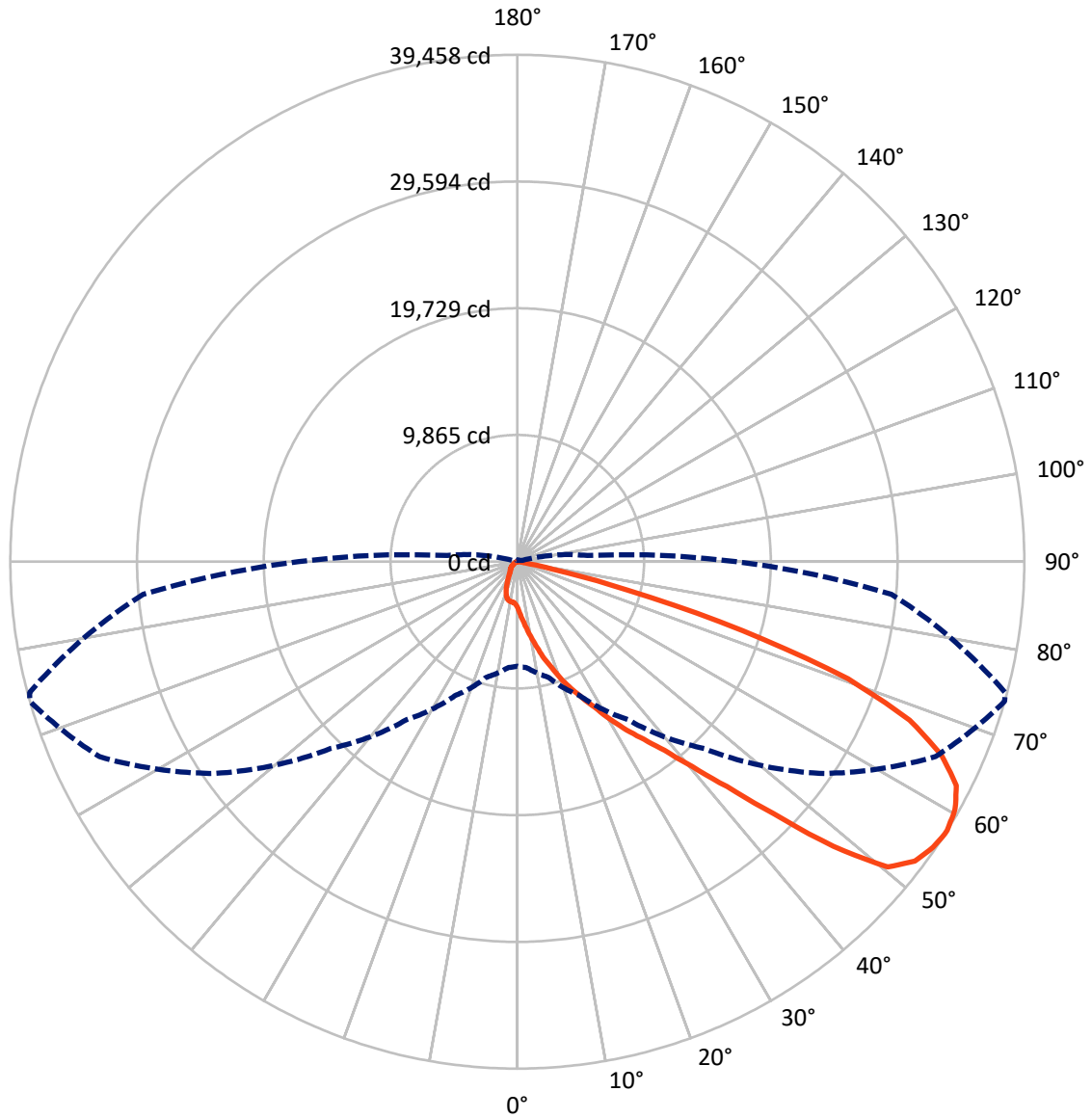
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2461.3	0.0	2461.3
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	40213.6	0.0	40213.6
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	42675.0	0.0	42675.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.4	1.0
10°-20°	1700.4	4.0
20°-30°	3638.3	8.5
30°-40°	6687.2	15.7
40°-50°	10251.6	24.0
50°-60°	10844.8	25.4
60°-70°	7082.0	16.6
70°-80°	1935.1	4.5
80°-90°	104.2	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°	42675.0	100.0
0°-180°	42675.0	100.0

**Coefficient of Utilization**

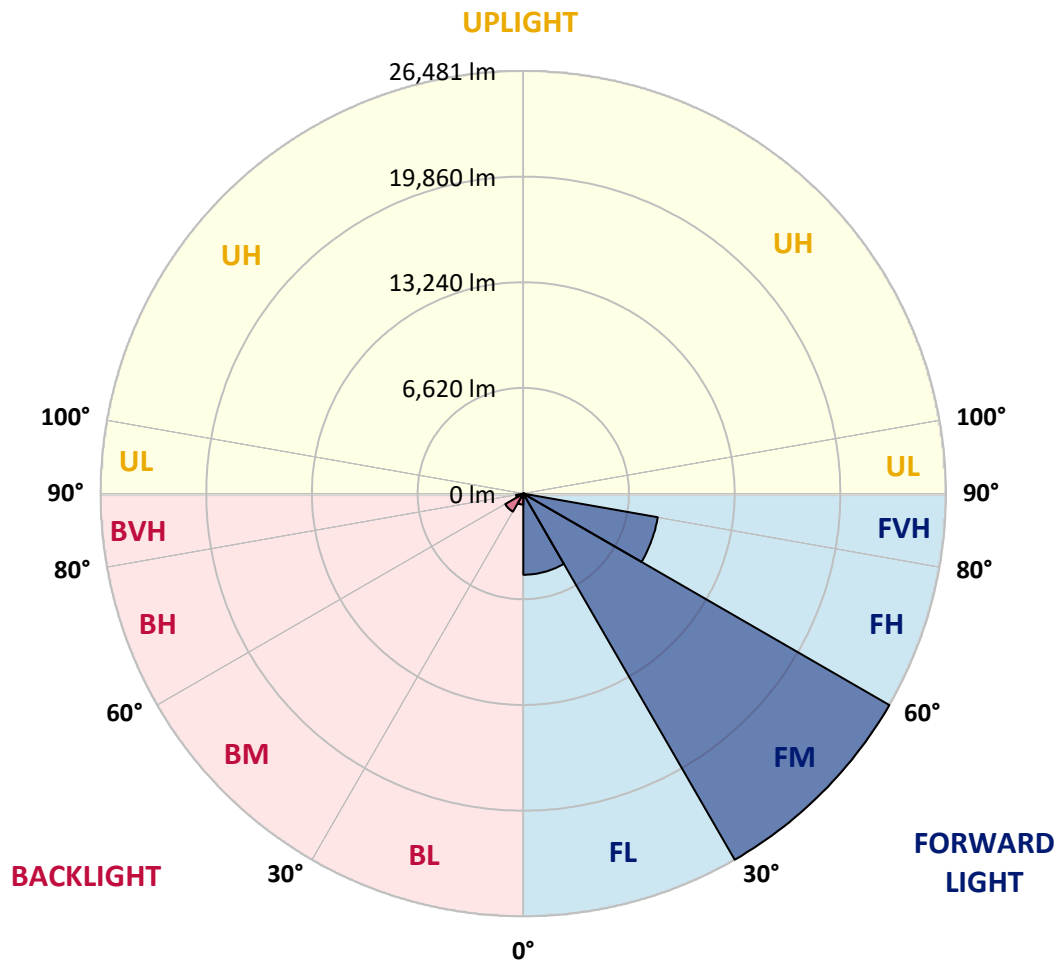


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5082.5	11.9			
FM	(30°-60°)	26480.6	62.1			
FH	(60°-80°)	8554.9	20.0			G4/12000
FVH	(80°-90°)	95.6	0.2			G1/100
BL	(0°-30°)	687.5	1.6	B2/1000		
BM	(30°-60°)	1303.1	3.1	B2/2500		
BH	(60°-80°)	462.1	1.1	B1/500		G1/500
BVH	(80°-90°)	8.6	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-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0
2.5°	5229.8	5182.7	5088.4	5056.0	4917.5	4702.4	4513.9	4260.5	4060.1	4039.5	3797.9
5°	7003.6	6897.5	6853.3	6641.2	6308.2	5995.9	5459.7	5053.1	4584.6	4549.2	4063.1
7.5°	8712.5	8565.2	8521.0	8320.6	7931.7	7439.6	6744.3	6004.8	5262.3	5194.5	4419.6
10°	9950.0	9970.6	9891.0	9758.5	9443.2	8942.3	8084.9	7074.3	6016.5	5931.1	4820.3
12.5°	10836.8	10833.9	10848.6	10845.7	10677.7	10297.6	9396.0	8232.2	6847.4	6679.5	5279.9
15°	11414.3	11423.2	11467.4	11620.6	11638.3	11402.5	10651.2	9340.1	7810.9	7601.7	5777.9
17.5°	11997.7	12059.6	12130.3	12274.7	12404.3	12310.0	11779.7	10495.1	8683.0	8526.9	6311.2
20°	12961.2	13046.6	13005.4	13093.8	13161.5	13170.4	12760.8	11561.6	9740.8	9478.5	6921.1
22.5°	14502.2	14499.2	14393.1	14234.0	14101.4	14095.5	13724.3	12657.7	10701.3	10447.9	7533.9
25°	16449.7	16458.6	16252.3	15798.6	15468.6	15064.9	14637.7	13618.2	11729.6	11417.3	8179.2
27.5°	18683.1	18627.1	18314.8	17690.1	17036.0	16346.6	15730.8	14734.9	12819.8	12560.5	8918.7
30°	20689.6	20669.0	20303.6	19540.5	18680.1	17987.7	17095.0	16134.5	14231.1	13912.9	9746.7
32.5°	22557.6	22587.1	22080.3	21290.6	20459.8	19661.3	18718.4	17472.1	15615.9	15165.1	10648.3
35°	24016.1	24045.5	23521.1	22864.0	22009.6	21346.6	20448.0	18898.2	16983.0	16602.9	11685.4
37.5°	24793.9	24832.2	24528.7	24033.7	23500.4	23167.5	22330.7	20733.8	18644.8	18415.0	12911.1
40°	24941.2	24985.4	24852.8	24720.2	24690.8	24929.4	24684.9	22896.4	20948.9	20589.4	14737.9
42.5°	24499.3	24558.2	24617.1	24911.8	25512.8	26387.9	27239.4	25831.0	23915.9	23432.7	16971.2
45°	23338.4	23332.5	23565.3	24328.4	25674.9	27542.9	29908.8	29505.2	27958.3	27383.8	20126.8
47.5°	21352.5	21323.1	21826.9	22914.1	25011.9	27755.0	32086.2	33966.0	33117.5	32587.1	23518.1
50°	18326.6	18470.9	19263.5	20780.9	23364.9	27112.7	32758.0	36891.8	37351.4	36788.7	26258.3
52.5°	14782.1	14776.2	16019.5	18079.1	20925.3	25698.4	32289.5	37422.1	38727.4	38297.2	27607.7
55°	10940.0	11016.6	12310.0	14387.2	17757.9	23117.4	30760.4	36877.1	39251.9	38948.4	28497.5
57°	8137.9	8273.5	9310.6	11508.6	15000.1	20562.9	28724.4	35901.8	39458.1	39293.1	29237.1
57.5°	7595.8	7601.7	8612.3	10610.0	14192.8	19581.7	28141.0	35495.2	39452.2	39360.9	29357.9
60°	4675.9	4823.2	5521.5	7171.5	10389.0	15282.9	24231.1	33158.7	39145.8	39278.4	29873.5
62.5°	2799.1	2860.9	3314.7	4322.4	6697.2	11155.0	19829.2	30168.1	38347.3	38751.0	29838.1
65°	1800.2	1815.0	2021.2	2616.4	4186.8	7539.8	15280.0	26217.0	36281.9	37024.4	28671.4
67.5°	1390.7	1414.3	1496.8	1717.7	2427.8	4696.6	10807.4	22000.7	32940.7	33898.3	25842.8
70°	1234.5	1246.3	1275.8	1346.5	1605.8	2651.8	6723.7	17186.3	27316.0	27587.1	20224.0
72.5°	1007.7	1040.1	1131.4	1155.0	1272.8	1655.9	3741.9	11535.1	18353.1	18420.9	11314.2
75°	780.8	786.7	922.2	990.0	1072.5	1140.3	1670.6	5816.2	8815.6	8344.2	4360.7
77.5°	583.4	609.9	671.8	757.2	875.1	816.2	748.4	2192.1	2737.2	2687.1	1266.9
80°	374.2	388.9	468.5	568.7	680.6	533.3	421.3	642.3	601.1	618.7	303.5
82.5°	188.6	191.5	300.5	462.6	433.1	268.1	265.2	262.2	223.9	221.0	141.4
85°	20.6	44.2	194.5	265.2	194.5	88.4	123.7	120.8	117.9	120.8	82.5
87.5°	2.9	2.9	32.4	38.3	26.5	29.5	35.4	38.3	47.1	44.2	35.4
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°	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0	3574.0
2.5°	3680.0	3562.2	3344.2	3135.0	2978.8	2878.6	2749.0	2701.8	2634.1	2625.2	2592.8
5°	3839.2	3615.2	3235.1	2934.6	2693.0	2510.3	2351.2	2218.6	2112.6	2089.0	2100.8
7.5°	4066.0	3733.1	3202.7	2793.2	2457.3	2145.0	1891.6	1735.4	1623.5	1582.2	1588.1
10°	4322.4	3889.2	3196.8	2642.9	2130.2	1747.2	1470.3	1331.8	1266.9	1243.4	1216.9
12.5°	4625.8	4069.0	3182.1	2410.2	1770.8	1393.6	1196.2	1113.7	1051.9	1034.2	1034.2
15°	4967.6	4260.5	3111.4	2121.4	1437.8	1152.0	1019.5	954.6	934.0	916.3	916.3
17.5°	5324.1	4449.1	2964.1	1764.9	1193.3	987.0	904.5	866.2	836.8	816.2	816.2
20°	5730.7	4634.7	2728.4	1449.6	1007.7	881.0	816.2	772.0	748.4	730.7	724.8
22.5°	6116.7	4784.9	2427.8	1190.3	878.0	792.6	733.7	686.5	662.9	654.1	654.1
25°	6517.4	4876.3	2065.4	984.1	801.4	718.9	654.1	615.8	595.2	589.3	586.3
27.5°	6906.3	4929.3	1747.2	860.3	730.7	651.2	589.3	559.8	539.2	533.3	536.2
30°	7377.8	4938.2	1437.8	772.0	668.8	586.3	530.4	503.8	492.0	486.2	483.2
32.5°	7855.1	4926.4	1208.0	718.9	609.9	530.4	483.2	462.6	453.7	444.9	444.9
35°	8391.3	4864.5	1028.3	665.9	553.9	483.2	442.0	424.3	412.5	403.7	400.7
37.5°	9057.2	4832.1	925.2	607.0	503.8	439.0	400.7	383.0	374.2	362.4	359.5
40°	10106.1	4976.5	892.8	553.9	453.7	397.8	362.4	341.8	330.0	318.2	315.3
42.5°	11414.3	5229.8	839.7	500.9	409.5	359.5	324.1	300.5	279.9	265.2	259.3
45°	13108.5	5562.8	757.2	444.9	371.2	318.2	285.8	256.3	229.8	218.0	215.1
47.5°	14885.2	5883.9	683.6	400.7	330.0	282.9	247.5	215.1	191.5	182.7	179.7
50°	15975.3	5948.8	636.4	350.6	288.7	244.6	209.2	179.7	165.0	156.2	156.2
52.5°	16473.3	5845.6	571.6	306.4	250.4	215.1	179.7	156.2	147.3	141.4	138.5
55°	16821.0	5686.5	486.2	265.2	215.1	182.7	159.1	141.4	129.6	123.7	120.8
57°	17024.3	5471.5	421.3	232.8	185.6	159.1	141.4	126.7	114.9	103.1	103.1
57.5°	17033.1	5389.0	403.7	229.8	176.8	153.2	138.5	123.7	109.0	97.2	94.3
60°	16770.9	4823.2	324.1	194.5	141.4	129.6	114.9	97.2	76.6	64.8	61.9
62.5°	15928.2	4104.3	268.1	165.0	114.9	100.2	82.5	73.7	53.0	38.3	38.3
65°	14652.4	3329.4	229.8	132.6	94.3	73.7	56.0	53.0	32.4	17.7	14.7
67.5°	12808.0	2592.8	194.5	109.0	79.6	53.0	38.3	35.4	17.7	5.9	0.0
70°	9758.5	1767.8	162.1	88.4	58.9	38.3	26.5	20.6	11.8	2.9	0.0
72.5°	5624.7	972.3	135.5	67.8	44.2	29.5	20.6	11.8	11.8	0.0	0.0
75°	2009.4	418.4	103.1	50.1	35.4	23.6	14.7	5.9	8.8	2.9	0.0
77.5°	639.4	223.9	67.8	38.3	29.5	17.7	11.8	5.9	5.9	2.9	0.0
80°	188.6	117.9	41.2	32.4	20.6	14.7	8.8	2.9	5.9	2.9	0.0
82.5°	103.1	58.9	32.4	23.6	20.6	11.8	8.8	2.9	2.9	2.9	0.0
85°	53.0	35.4	26.5	23.6	20.6	11.8	8.8	2.9	0.0	2.9	2.9
87.5°	29.5	26.5	26.5	23.6	20.6	14.7	8.8	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)