

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: P459418

Luminaire Tested: **GLAN-SA8D-735-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459418  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8D-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47626 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

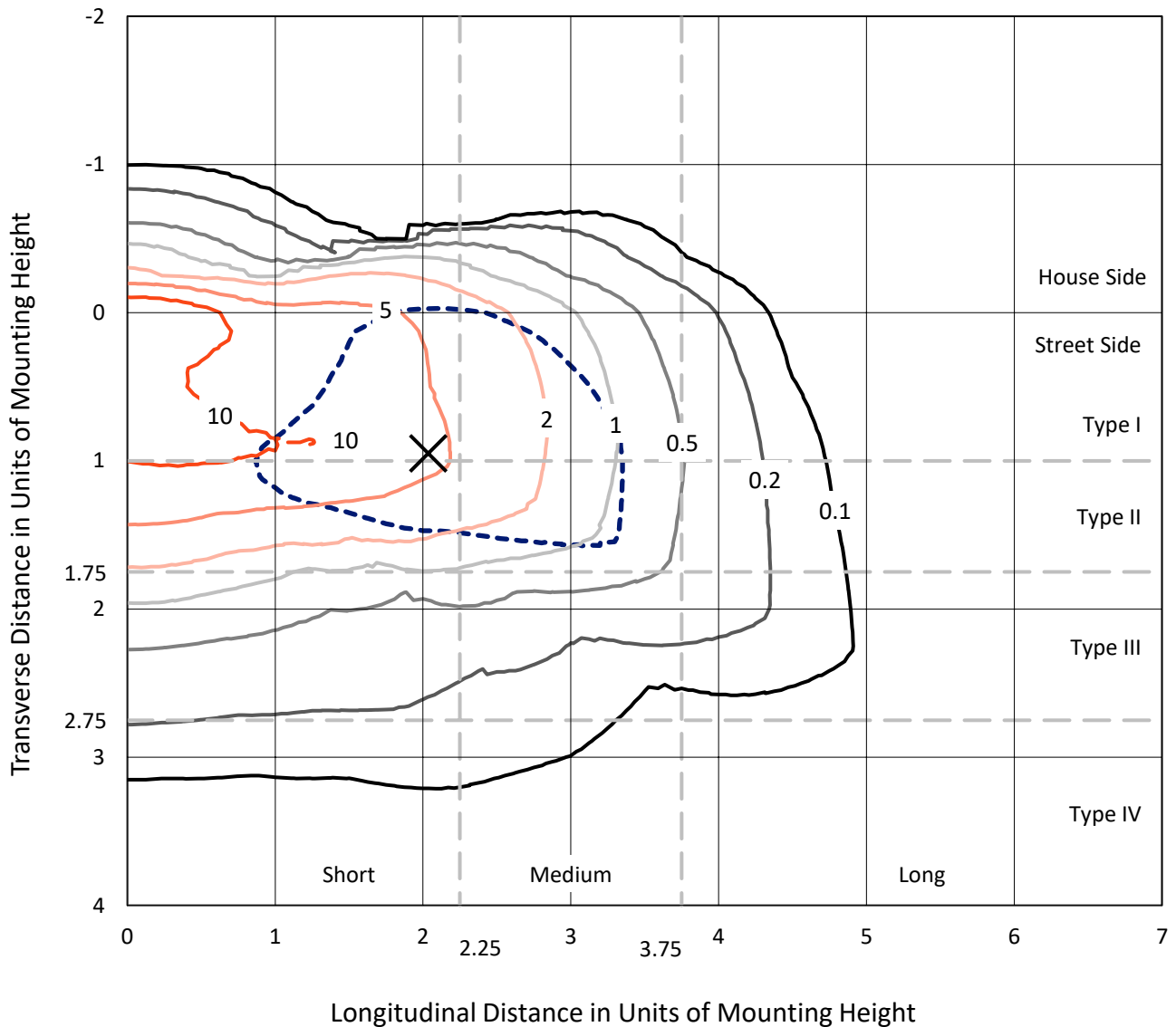
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

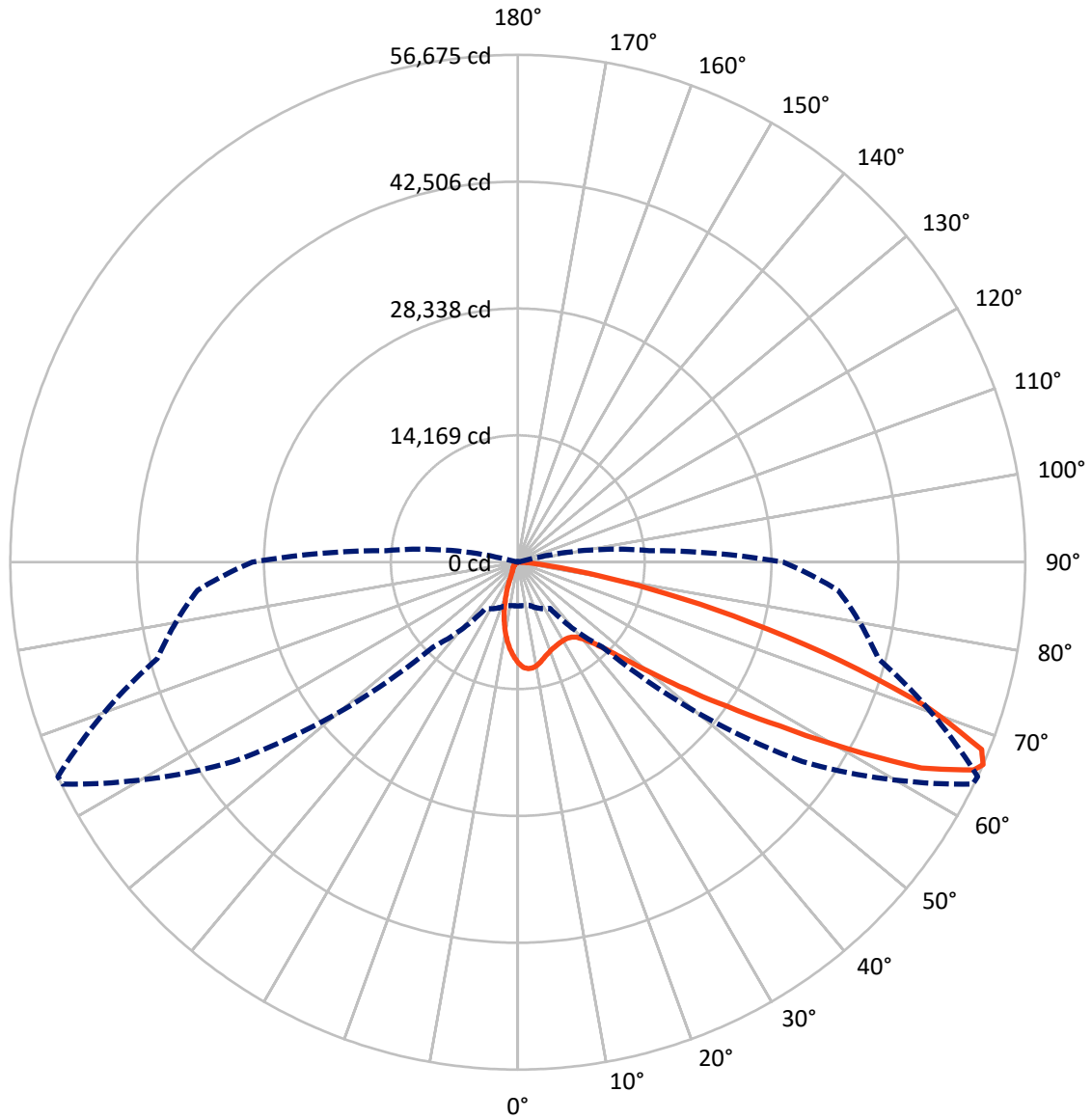
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4925.2	0.0	4925.2
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	42700.8	0.0	42700.8
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	47626.0	0.0	47626.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	923.7	1.9
10°-20°	2012.5	4.2
20°-30°	2883.0	6.1
30°-40°	4210.8	8.8
40°-50°	7060.8	14.8
50°-60°	11783.3	24.7
60°-70°	12507.6	26.3
70°-80°	5664.7	11.9
80°-90°	579.6	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°	47626.0	100.0
0°-180°	47626.0	100.0

**Coefficient of Utilization**



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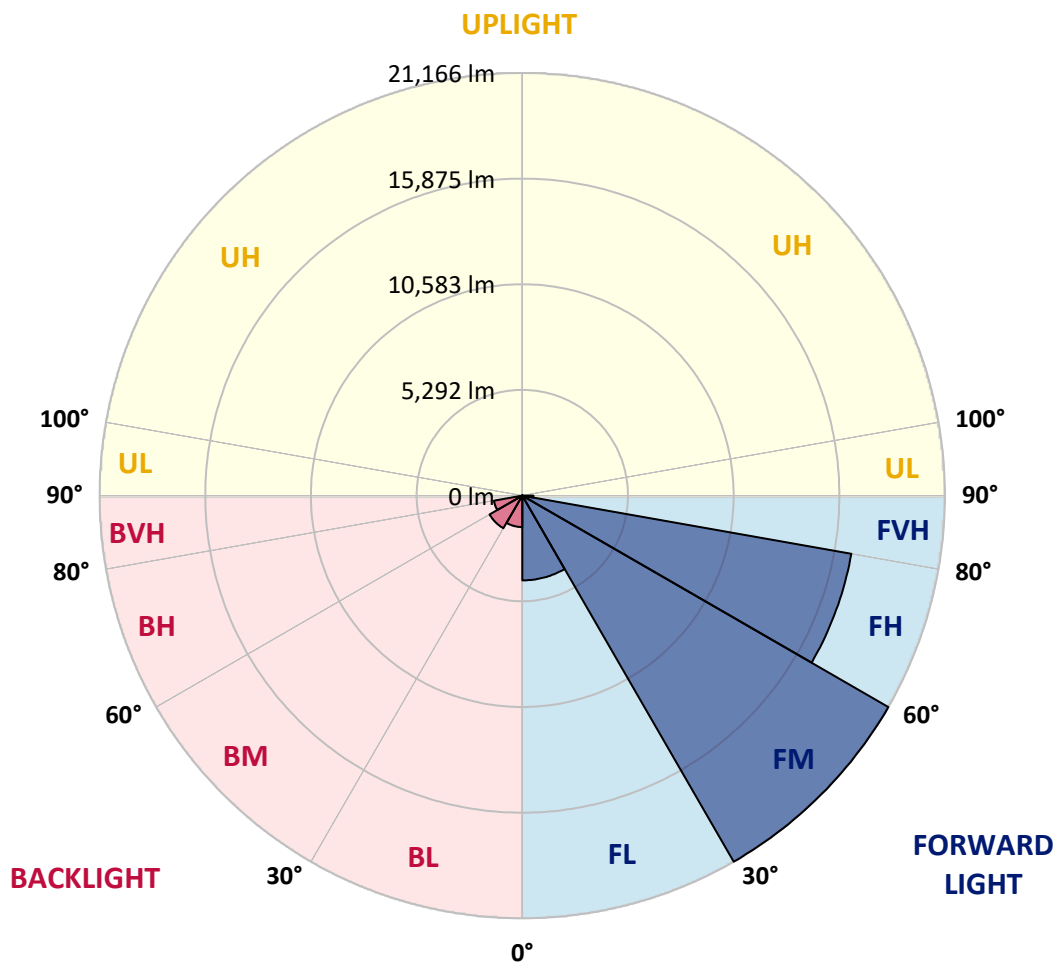
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4243.6	8.9			
FM	(30°-60°)	21166.1	44.4			
FH	(60°-80°)	16729.9	35.1			G5
FVH	(80°-90°)	561.1	1.2			G4/750
BL	(0°-30°)	1575.5	3.3	B3/2500		
BM	(30°-60°)	1888.9	4.0	B2/2500		
BH	(60°-80°)	1442.4	3.0	B3/2500		G3/2500
BVH	(80°-90°)	18.5	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	11293.9	11293.9	11293.9	11293.9	11293.9	11293.9	11293.9	11293.9	11293.9	11293.9	11293.9
2.5°	11901.8	11914.7	11930.8	11953.3	11969.4	11921.1	11853.6	11776.4	11760.3	11596.3	11396.8
5°	11264.9	11284.2	11425.8	11503.0	11676.7	11834.3	11934.0	11946.9	11940.4	11786.0	11467.6
7.5°	10357.8	10412.5	10550.8	10685.9	11010.8	11310.0	11663.8	11911.5	11927.6	11885.8	11490.1
10°	9621.2	9656.6	9727.3	9994.3	10264.5	10721.3	11216.7	11683.1	11721.7	11889.0	11470.8
12.5°	9045.4	9096.9	9183.7	9389.6	9714.5	10145.5	10708.4	11335.7	11416.1	11827.9	11416.1
15°	8643.3	8669.0	8755.9	8958.5	9273.8	9672.7	10242.0	10972.2	11043.0	11747.4	11406.5
17.5°	8453.5	8482.5	8543.6	8704.4	8965.0	9334.9	9891.4	10679.5	10769.6	11696.0	11441.8
20°	8505.0	8530.7	8533.9	8617.6	8794.5	9106.5	9634.1	10406.1	10521.9	11663.8	11499.8
22.5°	8797.7	8800.9	8762.3	8723.7	8784.8	9010.0	9476.4	10232.4	10351.4	11657.4	11567.3
25°	9235.2	9244.8	9180.5	9045.4	8923.2	9039.0	9441.1	10119.8	10225.9	11641.3	11609.1
27.5°	9839.9	9836.7	9817.4	9592.2	9244.8	9167.6	9470.0	10058.7	10148.7	11596.3	11625.2
30°	10685.9	10660.2	10618.4	10364.3	9833.5	9479.7	9592.2	10020.1	10103.7	11531.9	11583.4
32.5°	11519.1	11615.6	11609.1	11367.9	10705.2	10036.1	9846.4	10071.5	10132.6	11490.1	11522.3
35°	12490.5	12487.3	12735.0	12644.9	11869.7	10747.0	10280.6	10242.0	10290.3	11519.1	11493.3
37.5°	13391.2	13474.8	13860.8	13954.1	13246.4	11750.7	10895.0	10608.7	10624.8	11715.3	11564.1
40°	14513.8	14674.6	15250.4	15562.5	14938.4	13240.0	11802.1	11281.0	11284.2	12197.8	11831.1
42.5°	15961.3	16215.5	16752.6	17273.8	16939.2	15002.8	13162.8	12345.7	12339.3	13047.0	12442.2
45°	17720.9	17897.8	18509.0	19335.7	19123.4	17463.5	15144.3	13995.9	13912.3	14439.8	13526.3
47.5°	19239.2	19480.4	20101.2	21043.7	22008.8	20467.9	17511.8	16263.7	16209.0	16656.1	15385.5
50°	19901.8	20114.1	20767.1	22089.2	24427.7	24411.6	21037.3	19573.7	19480.4	19721.7	18261.3
52.5°	19174.8	19374.3	20033.7	21680.6	25566.4	29217.4	26145.4	23726.5	23613.9	23305.1	21696.7
55°	16685.1	16849.1	17823.8	19715.2	25129.0	32421.3	33183.6	28857.1	28419.7	27219.8	25585.7
57.5°	13285.0	13201.4	13806.1	16003.1	22562.0	33495.6	40408.4	35248.7	34467.1	30603.8	28876.4
60°	9206.2	9463.6	9708.0	11155.6	16964.9	31633.2	44902.1	43284.1	42254.7	33933.1	32028.8
62.5°	6768.0	6938.5	7099.3	7768.4	10666.6	25257.6	45696.6	51538.2	50624.6	37468.3	35036.4
65°	5352.6	5365.5	5429.8	6089.2	7028.5	16424.5	41878.4	56192.8	55957.9	40871.6	36255.6
66°	4876.5	4879.8	4979.5	5687.1	6308.0	13375.1	38819.3	56546.6	56675.3	41688.6	35898.5
67.5°	4262.1	4249.3	4394.0	5111.4	5745.1	9643.7	33344.5	55112.0	55874.3	42315.9	34615.1
70°	3303.6	3287.5	3464.4	4287.9	5291.5	6433.4	22163.2	47321.1	48549.9	41032.4	30626.3
72.5°	2200.2	2213.1	2515.5	3384.0	5050.2	5664.6	13333.3	35998.2	37735.3	33884.9	24093.2
75°	1283.5	1306.0	1650.2	2515.5	4384.4	5400.9	7546.4	25669.4	26779.1	23398.4	15009.2
77.5°	672.3	681.9	923.2	1659.8	3361.5	5014.9	5027.7	16398.8	16919.9	11371.1	5941.3
80°	357.1	347.4	495.4	1000.4	2312.8	4403.7	4078.8	8681.9	9026.1	3377.5	1502.2
82.5°	135.1	148.0	263.8	656.2	1367.1	3162.0	3512.7	3837.5	3718.5	743.1	630.5
85°	25.7	32.2	112.6	389.2	688.4	1322.1	2589.5	1881.8	1743.5	279.9	363.5
87.5°	3.2	6.4	32.2	93.3	99.7	447.1	765.6	521.1	450.3	102.9	151.2
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°	11293.9	11293.9	11293.9	11293.9	11293.9	11293.9	11293.9	11293.9	11293.9	11293.9	11293.9
2.5°	11300.3	11213.5	10924.0	10637.7	10345.0	10081.2	9901.0	9608.3	9534.3	9428.2	9367.1
5°	11277.8	11075.1	10518.7	9910.7	9344.6	8733.4	8267.0	7816.6	7575.4	7453.1	7408.1
7.5°	11213.5	10891.8	10023.3	9071.1	8164.0	7250.5	6455.9	5851.2	5462.0	5195.0	5014.9
10°	11084.8	10640.9	9447.5	8138.3	6768.0	5561.7	4554.9	3789.3	3197.4	3010.8	3017.3
12.5°	10952.9	10361.0	8804.1	7102.5	5404.1	3882.6	2814.6	2209.9	1926.8	1833.5	1814.2
15°	10830.7	10094.0	8173.7	6098.9	4024.1	2515.5	1814.2	1601.9	1524.7	1508.6	1505.4
17.5°	10766.3	9846.4	7501.4	4950.5	2808.2	1708.1	1454.0	1396.1	1373.5	1357.5	1351.0
20°	10711.7	9630.8	6858.0	3876.1	1920.4	1399.3	1302.8	1248.1	1209.5	1193.4	1183.8
22.5°	10673.1	9408.9	6192.2	3001.2	1470.0	1241.7	1154.8	1084.0	1029.3	1010.0	997.2
25°	10615.2	9164.4	5519.9	2193.8	1238.4	1103.3	1003.6	920.0	849.2	813.8	807.4
27.5°	10531.5	8887.8	4783.3	1624.4	1106.5	981.1	858.9	755.9	685.2	646.6	649.8
30°	10396.4	8598.3	4046.6	1289.9	1000.4	855.6	723.8	624.0	556.5	527.5	524.3
32.5°	10235.6	8247.7	3371.1	1106.5	903.9	743.1	604.7	517.9	466.4	443.9	440.7
35°	10084.4	7893.8	2682.7	994.0	804.2	640.1	508.2	434.3	395.7	376.4	379.6
37.5°	10000.8	7578.6	2090.9	903.9	723.8	550.1	437.5	373.1	337.8	321.7	318.5
40°	10055.4	7321.2	1663.0	823.5	633.7	472.9	376.4	321.7	286.3	263.8	263.8
42.5°	10312.8	7208.7	1341.4	746.3	550.1	408.5	328.1	276.6	238.0	215.5	218.7
45°	11097.7	7327.7	1122.6	675.5	472.9	353.8	283.1	228.4	193.0	176.9	173.7
47.5°	12400.4	7774.8	971.4	601.5	405.3	302.4	238.0	189.8	154.4	141.5	138.3
50°	14677.9	8698.0	858.9	527.5	344.2	257.3	196.2	151.2	122.2	109.4	109.4
52.5°	17810.9	10711.7	778.4	443.9	289.5	218.7	160.8	122.2	96.5	86.9	83.6
55°	21085.6	12834.7	736.6	373.1	241.3	180.1	128.7	96.5	74.0	64.3	61.1
57.5°	24234.7	14500.9	688.4	302.4	193.0	138.3	99.7	74.0	51.5	45.0	41.8
60°	27255.2	15848.7	585.4	241.3	151.2	99.7	74.0	51.5	35.4	29.0	29.0
62.5°	29957.3	16633.6	460.0	193.0	115.8	70.8	48.3	38.6	25.7	19.3	19.3
65°	30272.5	15613.9	347.4	148.0	83.6	45.0	29.0	29.0	19.3	12.9	12.9
66°	29638.8	14748.6	305.6	135.1	74.0	38.6	25.7	22.5	16.1	9.7	9.7
67.5°	28223.4	13272.2	263.8	115.8	61.1	29.0	19.3	19.3	12.9	6.4	6.4
70°	24385.9	10840.3	209.1	86.9	45.0	22.5	12.9	12.9	9.7	6.4	6.4
72.5°	18586.2	8093.3	170.5	64.3	32.2	16.1	9.7	9.7	9.7	6.4	6.4
75°	11210.2	4358.6	131.9	48.3	29.0	12.9	6.4	9.7	12.9	9.7	6.4
77.5°	4130.3	1482.9	102.9	38.6	22.5	12.9	6.4	6.4	12.9	9.7	9.7
80°	1013.3	386.0	74.0	32.2	22.5	12.9	6.4	6.4	12.9	12.9	12.9
82.5°	469.6	164.1	51.5	29.0	22.5	12.9	6.4	6.4	9.7	12.9	12.9
85°	270.2	77.2	41.8	32.2	22.5	12.9	6.4	6.4	9.7	12.9	12.9
87.5°	109.4	38.6	38.6	32.2	25.7	16.1	6.4	6.4	6.4	9.7	9.7
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)