

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: P299995

Luminaire Tested: **GAA-AF-10-LED-U-SL3-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299995  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-10-LED-U-SL3-8030-HSS  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI  
3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III w/Spill  
Control WITH HOUSESIDE SHEILD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37312.1 lumens  
Efficiency: N/A  
Efficacy: 66.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

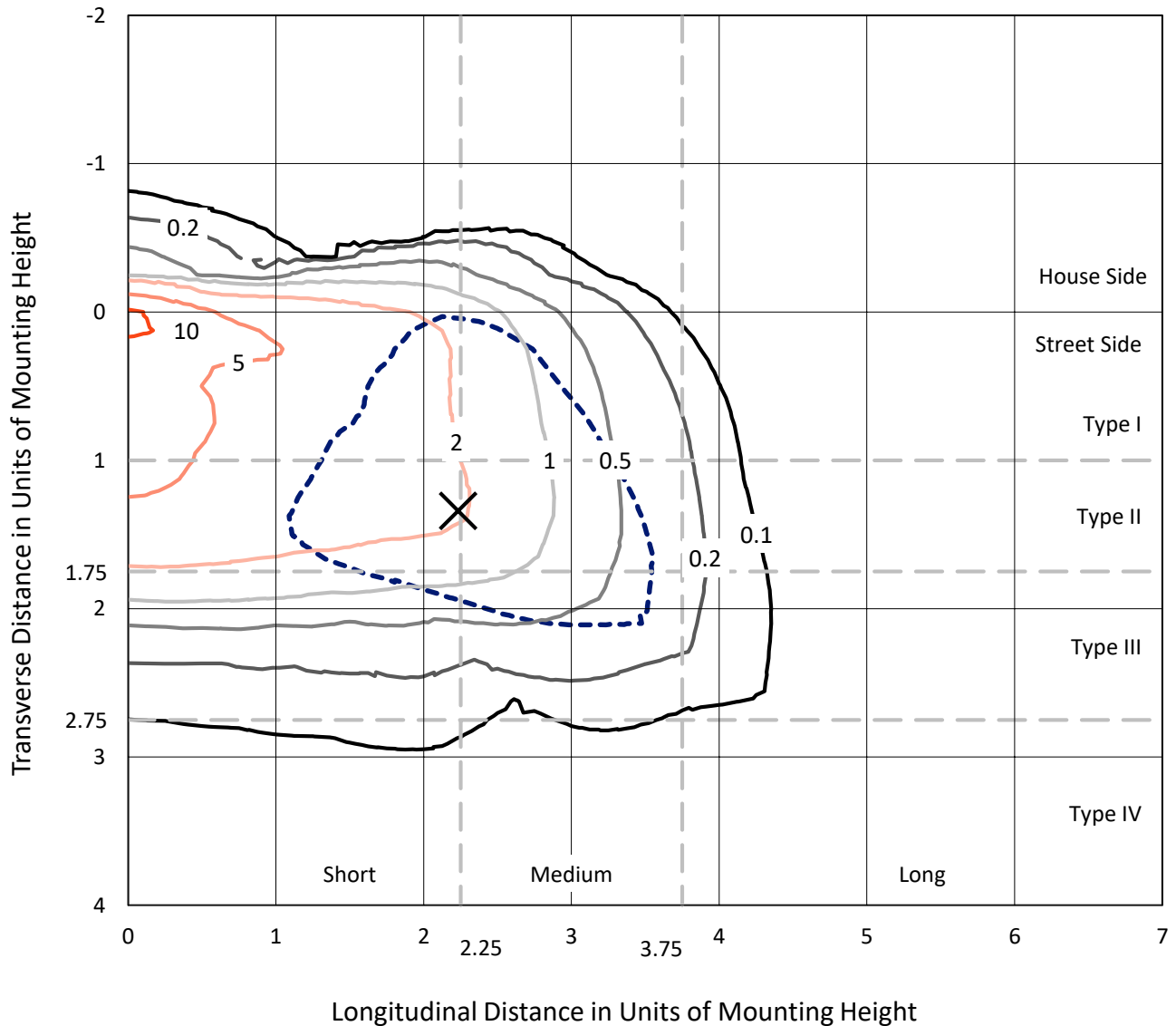
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

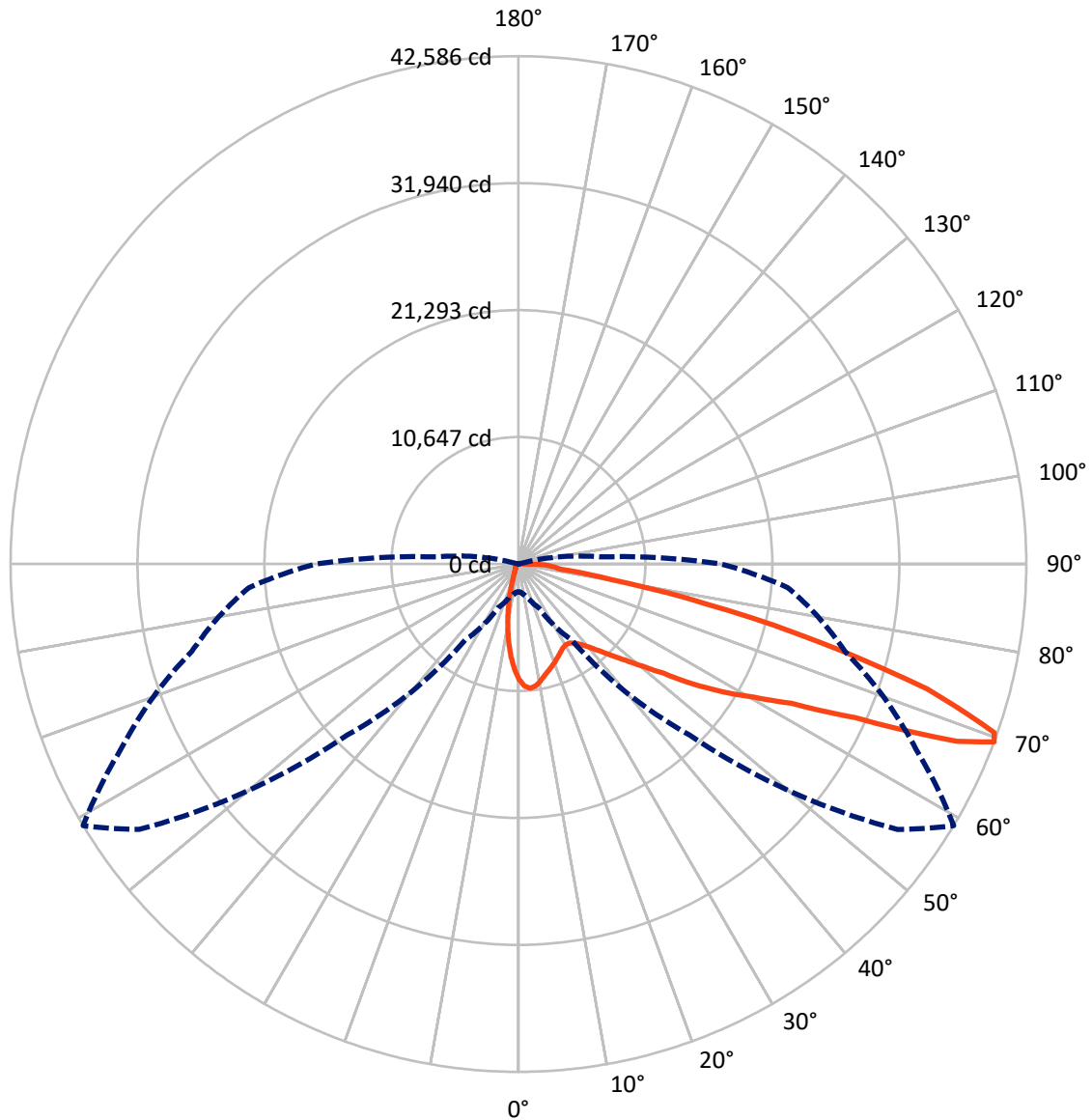
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3038.5	0.0	3038.5
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	34273.6	0.0	34273.6
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	37312.1	0.0	37312.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	788.3	2.1
10°-20°	1628.9	4.4
20°-30°	2191.9	5.9
30°-40°	3182.4	8.5
40°-50°	5299.0	14.2
50°-60°	8266.3	22.2
60°-70°	10229.0	27.4
70°-80°	5183.9	13.9
80°-90°	542.4	1.5
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°	37312.1	100.0
0°-180°	37312.1	100.0



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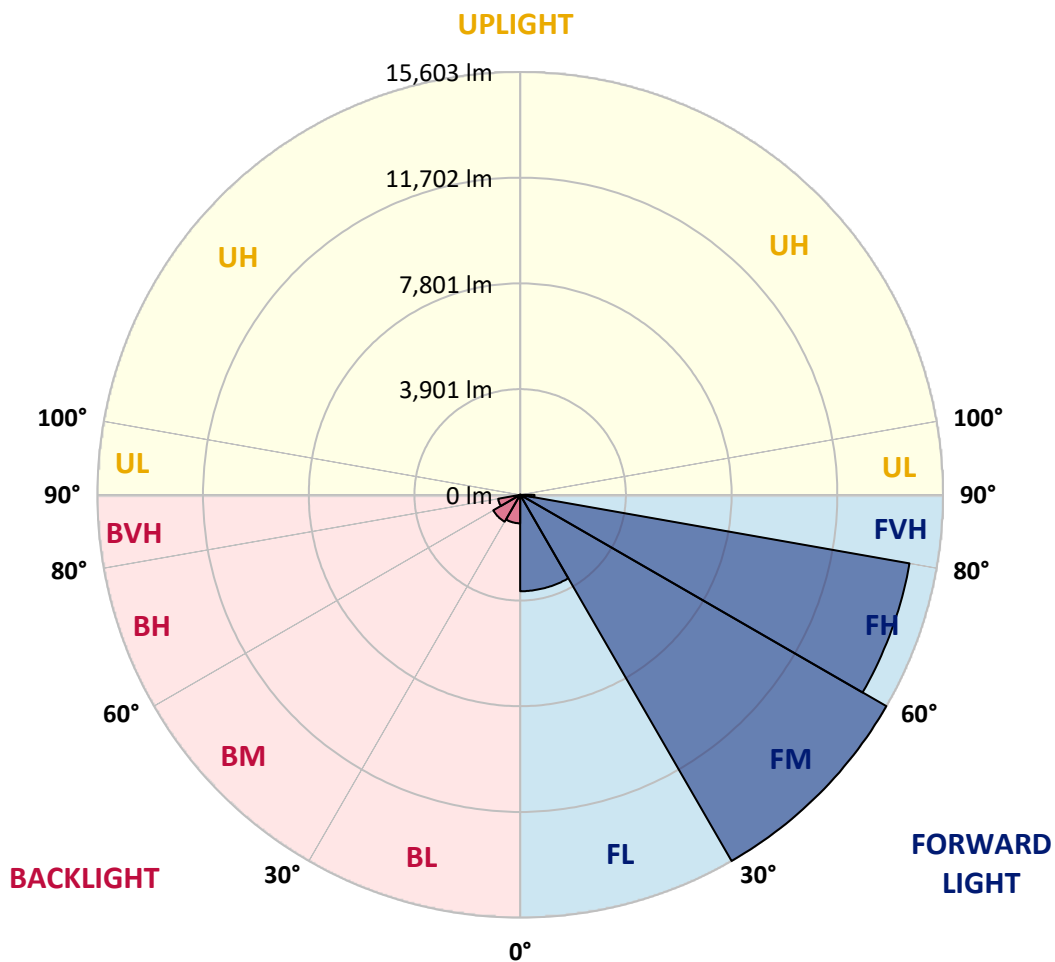
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3557.3	9.5			
FM	(30°-60°)	15602.8	41.8			
FH	(60°-80°)	14587.7	39.1			G5
FVH	(80°-90°)	525.7	1.4			G4/750
BL	(0°-30°)	1051.7	2.8	B3/2500		
BM	(30°-60°)	1144.9	3.1	B2/2500		
BH	(60°-80°)	825.2	2.2	B2/1000		G2/1000
BVH	(80°-90°)	16.7	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9711.6	9711.6	9711.6	9711.6	9711.6	9711.6	9711.6	9711.6	9711.6	9711.6	9711.6
2.5°	10644.3	10640.4	10593.8	10572.7	10534.4	10454.5	10330.0	10264.8	10159.4	9975.5	9728.9
5°	10547.2	10598.3	10625.1	10627.7	10655.1	10625.1	10513.3	10459.0	10313.4	10017.6	9574.9
7.5°	9889.2	9907.7	9986.3	10053.4	10184.3	10308.9	10349.1	10325.5	10239.3	9923.1	9334.1
10°	9184.6	9203.1	9296.4	9384.6	9562.2	9753.8	9956.3	9999.1	10034.9	9787.6	9102.2
12.5°	8576.5	8595.7	8690.8	8806.5	9013.4	9249.8	9564.1	9633.7	9792.1	9659.2	8916.3
15°	8053.3	8061.6	8154.9	8298.0	8545.2	8848.6	9205.7	9317.5	9560.2	9568.5	8754.1
17.5°	7608.1	7629.2	7686.6	7823.3	8093.6	8469.2	8885.0	9045.4	9329.6	9492.5	8595.7
20°	7335.9	7357.0	7355.1	7431.1	7673.9	8074.4	8564.3	8756.0	9102.2	9414.6	8454.5
22.5°	7283.6	7283.6	7228.6	7217.8	7361.5	7696.9	8230.9	8464.7	8897.2	9380.7	8355.5
25°	7471.4	7462.4	7325.7	7213.9	7220.3	7420.3	7907.7	8186.2	8724.7	9403.7	8302.4
27.5°	7868.1	7857.2	7684.1	7471.4	7300.2	7298.3	7663.0	7962.6	8587.3	9513.6	8323.5
30°	8416.1	8412.3	8224.5	7956.2	7646.4	7361.5	7578.7	7850.8	8498.6	9711.6	8372.1
32.5°	9015.3	9009.0	8867.8	8585.4	8192.6	7646.4	7667.5	7895.5	8524.1	9975.5	8490.2
35°	9650.9	9640.1	9578.8	9332.2	8899.7	8171.5	7958.8	8135.7	8684.4	10370.2	8722.1
37.5°	10338.3	10349.1	10393.2	10156.9	9703.3	8908.0	8446.2	8566.3	9007.0	10906.2	9099.7
40°	11353.3	11351.4	11366.1	11055.7	10619.4	9808.7	9127.1	9165.5	9547.5	11617.2	9673.9
42.5°	13195.0	13066.6	12676.3	12043.2	11604.4	10838.5	9986.3	9946.1	10208.0	12496.8	10477.5
45°	15670.3	15395.6	14383.2	13170.1	12608.6	11999.2	11042.9	10914.5	11081.2	13554.0	11469.6
47.5°	17798.8	17513.9	16081.7	14342.9	13674.1	13100.4	12281.5	12049.6	12104.6	14737.7	12726.8
50°	18522.6	18383.3	17132.5	15364.3	14705.7	14486.6	13718.8	13435.8	13357.9	16106.6	14184.5
52.5°	18271.5	18261.3	17427.7	16026.8	15651.2	15921.4	15526.6	15199.5	14912.7	17550.3	15667.8
55°	17868.4	17921.4	17547.8	16606.8	16594.0	17231.5	17999.4	17727.3	16896.2	19117.9	16946.6
57.5°	16756.9	16982.4	17480.7	17704.3	18223.0	18875.2	20058.9	20219.2	19236.1	20318.2	18007.7
60°	13596.2	14091.9	15720.8	17862.0	20322.7	21947.1	22544.4	22681.1	21155.7	21316.0	19440.5
62.5°	9650.9	10156.9	12222.7	15845.4	20354.0	25983.1	26246.9	25709.0	23270.1	22795.5	21911.4
65°	5122.5	5513.5	7201.2	11437.7	17647.4	26920.2	32722.4	31119.0	27000.0	25704.5	25103.4
67.5°	2620.3	2738.5	3409.9	5597.8	12132.0	23911.4	38526.5	39655.2	33428.9	28591.3	24949.5
69°	2318.8	2388.5	2833.7	4046.8	7768.4	20253.1	38809.5	42586.0	36794.7	28350.4	22672.8
70°	2244.7	2306.1	2711.1	3662.9	6072.4	16984.3	37726.7	42328.6	37655.2	27435.0	20972.3
72.5°	1905.5	1957.9	2414.0	3236.8	4935.3	8430.8	30646.3	35868.4	33789.8	22854.2	15180.4
75°	1274.4	1447.5	2316.9	3034.3	4591.0	4789.7	20204.5	25919.8	24078.2	15414.8	7907.7
77.5°	306.0	329.0	654.1	2414.0	4198.8	4215.4	10391.3	16113.0	13142.6	5494.3	1869.1
80°	164.8	158.4	183.3	479.1	3909.4	3956.1	4677.9	7821.4	4692.6	911.6	615.8
82.5°	116.3	109.9	118.2	200.6	1230.3	3603.5	3384.3	3540.2	1945.1	350.1	276.6
85°	42.2	40.2	65.2	181.4	385.8	2071.6	3477.0	2919.9	1575.9	160.3	202.5
87.5°	14.7	12.8	25.6	99.0	118.2	882.2	2145.7	2207.0	620.3	97.1	95.2
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°	9711.6	9711.6	9711.6	9711.6	9711.6	9711.6	9711.6	9711.6	9711.6	9711.6	9711.6
2.5°	9625.4	9494.4	9254.3	9007.0	8779.0	8504.9	8367.6	8232.8	8176.0	8154.9	8055.9
5°	9346.9	9125.2	8614.8	8101.9	7629.2	7127.1	6796.2	6530.4	6373.9	6297.9	6177.8
7.5°	8990.4	8627.6	7852.7	7061.9	6325.4	5599.7	5061.8	4647.9	4363.0	4226.3	4101.7
10°	8644.2	8161.3	7060.0	5981.7	4981.3	4019.3	3276.4	2738.5	2394.8	2236.4	2135.5
12.5°	8334.4	7707.7	6294.1	4929.0	3673.1	2546.9	1791.2	1363.2	1149.8	1075.7	1040.0
15°	8057.8	7290.0	5570.3	3928.6	2487.5	1455.8	979.3	833.6	799.8	799.8	795.3
17.5°	7795.9	6880.5	4871.5	2989.6	1561.2	890.5	744.8	725.7	725.7	734.0	734.0
20°	7544.8	6490.2	4196.3	2145.7	983.1	706.5	673.3	668.8	673.3	683.5	683.5
22.5°	7329.6	6135.6	3565.8	1472.4	730.1	636.9	620.3	613.9	615.8	622.2	626.7
25°	7169.2	5836.0	2971.0	997.8	628.6	580.0	561.5	550.6	542.3	542.3	546.2
27.5°	7068.3	5583.1	2394.8	725.7	565.3	527.6	497.6	481.0	461.9	451.6	455.5
30°	6994.2	5342.3	1854.4	592.8	506.6	468.2	430.5	403.1	375.6	362.8	367.3
32.5°	6966.7	5148.1	1386.2	523.2	453.5	411.4	364.8	329.0	299.6	288.7	291.3
35°	7040.8	4994.1	1015.0	472.7	411.4	358.4	306.0	265.7	242.7	236.4	238.3
37.5°	7235.0	4911.7	759.5	430.5	373.7	314.3	255.5	217.2	202.5	202.5	204.4
40°	7601.7	4909.8	610.1	401.2	339.8	272.1	210.8	183.3	175.0	179.5	181.4
42.5°	8137.6	5021.6	531.5	373.7	310.5	231.9	175.0	155.9	154.0	158.4	160.3
45°	8869.7	5226.0	489.3	350.1	278.5	194.2	147.6	134.8	134.8	141.2	143.7
47.5°	9766.6	5525.6	453.5	327.1	246.6	162.3	126.5	118.2	120.1	126.5	128.4
50°	10846.8	5903.8	417.8	301.5	223.6	134.8	109.9	103.5	105.4	113.7	116.3
52.5°	12077.1	6412.2	388.4	278.5	194.2	111.8	92.6	88.8	92.6	101.6	103.5
55°	13131.7	6867.7	352.6	259.4	155.9	92.6	76.0	76.0	80.5	90.7	92.6
57.5°	14146.8	7344.2	320.7	223.6	122.6	74.1	63.2	65.2	71.5	82.4	84.3
60°	15636.5	8152.3	283.0	187.8	92.6	58.8	53.0	54.9	63.2	74.1	76.0
62.5°	18166.1	9382.6	244.7	155.9	71.5	46.6	42.2	46.6	56.9	69.6	71.5
65°	20449.2	9882.8	200.6	131.0	54.9	35.8	35.8	42.2	54.9	67.7	69.6
67.5°	19176.7	8319.1	155.9	103.5	42.2	27.5	29.4	40.2	53.0	67.7	69.6
69°	16959.4	6802.5	132.9	82.4	35.8	25.6	27.5	40.2	53.0	65.2	67.7
70°	15231.5	5743.4	118.2	69.6	31.9	25.6	27.5	37.7	53.0	65.2	67.7
72.5°	10201.6	3101.4	95.2	50.5	29.4	23.0	23.0	37.7	50.5	63.2	65.2
75°	4384.1	856.6	76.0	35.8	25.6	21.1	21.1	35.8	48.5	61.3	65.2
77.5°	801.7	217.2	61.3	31.9	25.6	21.1	19.2	33.9	46.6	58.8	61.3
80°	318.8	107.3	48.5	27.5	23.0	19.2	16.6	31.9	44.1	56.9	58.8
82.5°	192.3	61.3	40.2	25.6	23.0	16.6	14.7	27.5	42.2	54.9	56.9
85°	155.9	42.2	31.9	25.6	21.1	16.6	12.8	25.6	37.7	53.0	54.9
87.5°	76.0	29.4	29.4	23.0	21.1	16.6	12.8	23.0	35.8	50.5	53.0
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)