

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-09-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-09-LED-U-SL3-8030-HSS  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(9) 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: 33700.7 lumens  
Efficiency: N/A  
Efficacy: 67.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G5

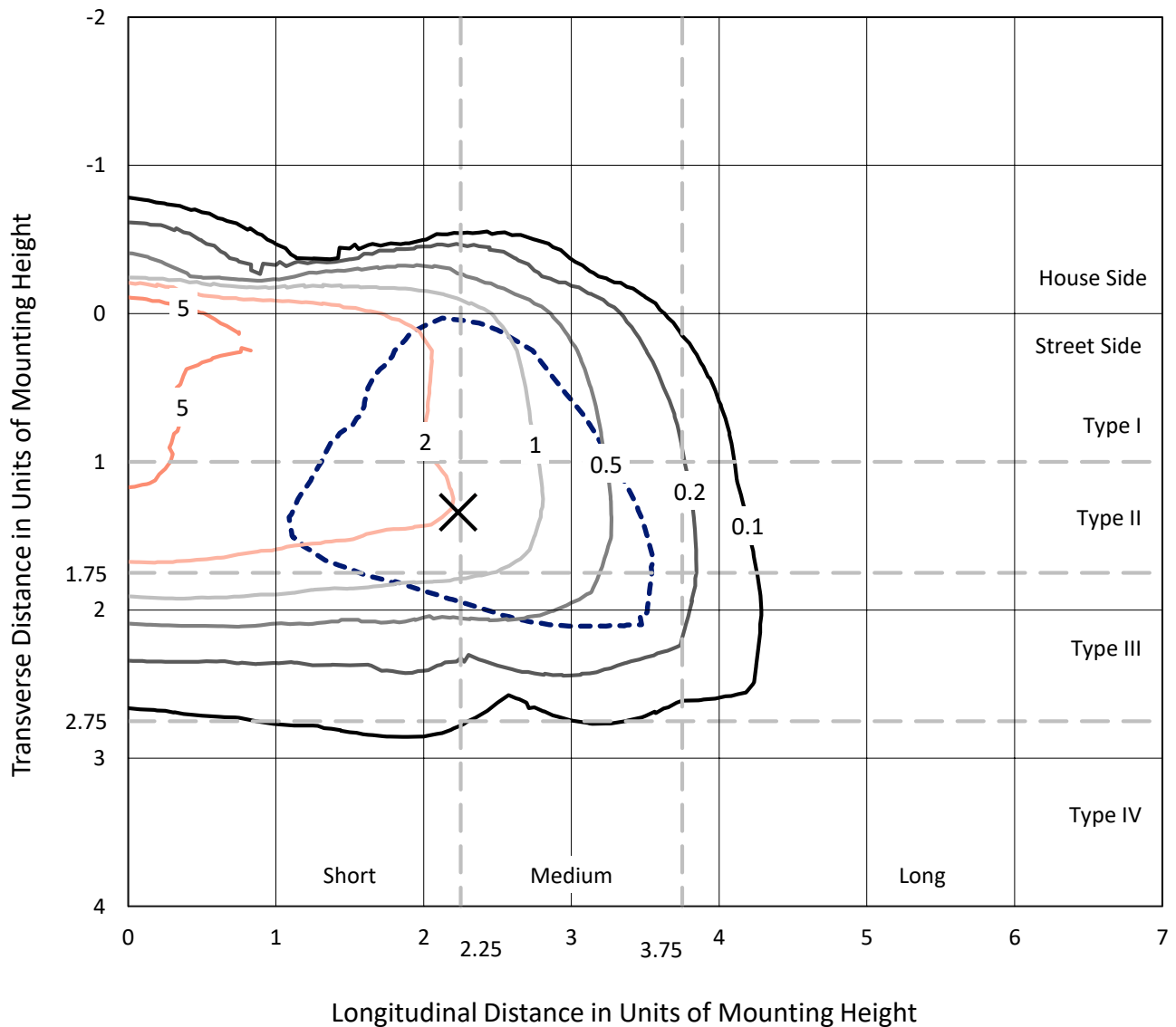
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P299995  
 CATALOG NUMBER: GAA-AF-09-LED-U-SL3-8030-HSS

### Iso-Footcandle Lines of Horizontal Illumination

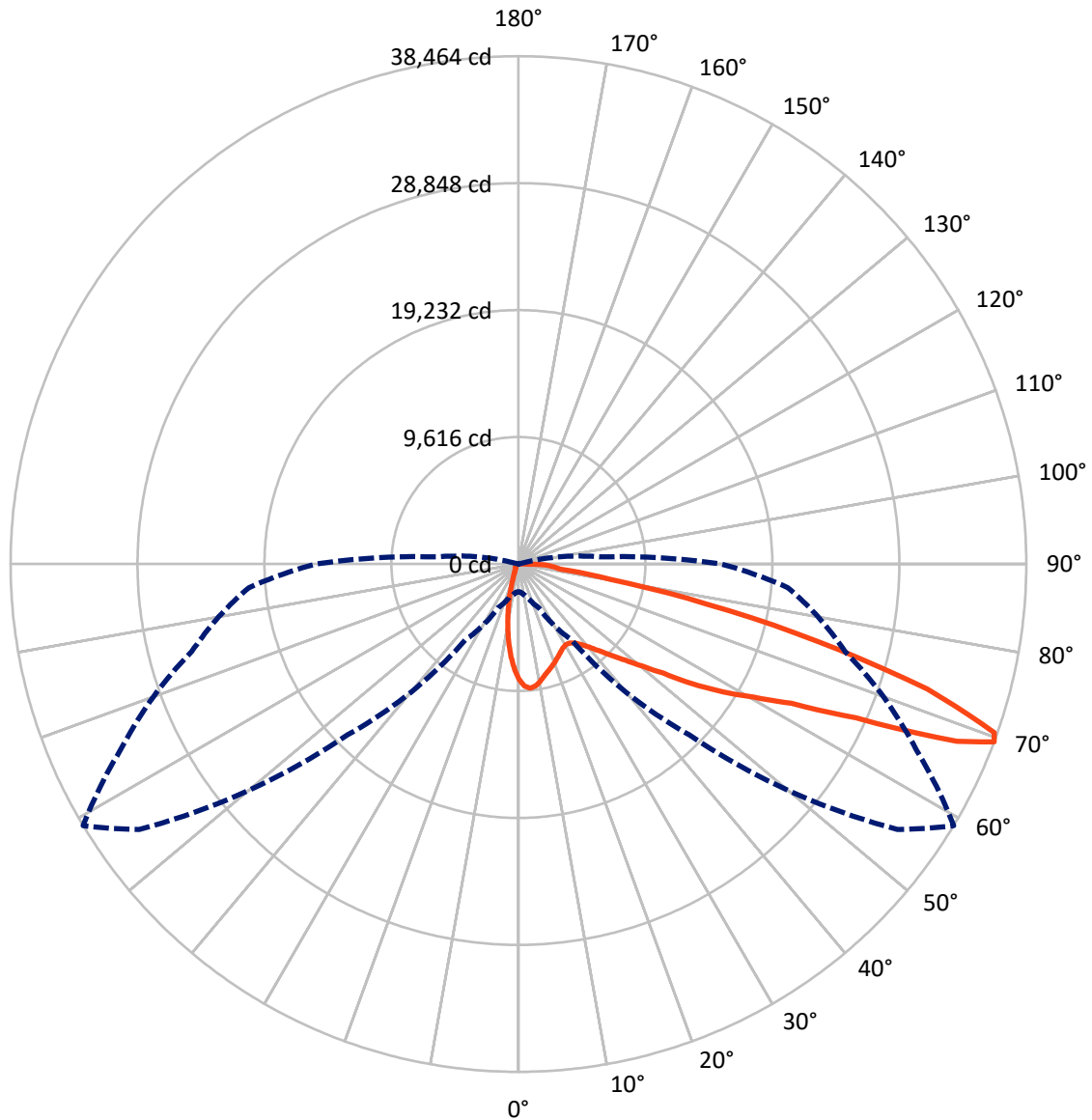
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P299995  
CATALOG NUMBER: GAA-AF-09-LED-U-SL3-8030-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P299995

CATALOG NUMBER: GAA-AF-09-LED-U-SL3-8030-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2744.4	0.0	2744.4
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	30956.3	0.0	30956.3
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	33700.7	0.0	33700.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	712.0	2.1
10°-20°	1471.2	4.4
20°-30°	1979.7	5.9
30°-40°	2874.4	8.5
40°-50°	4786.1	14.2
50°-60°	7466.3	22.2
60°-70°	9238.9	27.4
70°-80°	4682.2	13.9
80°-90°	489.9	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°	33700.7	100.0
0°-180°	33700.7	100.0



REPORT NUMBER: P299995

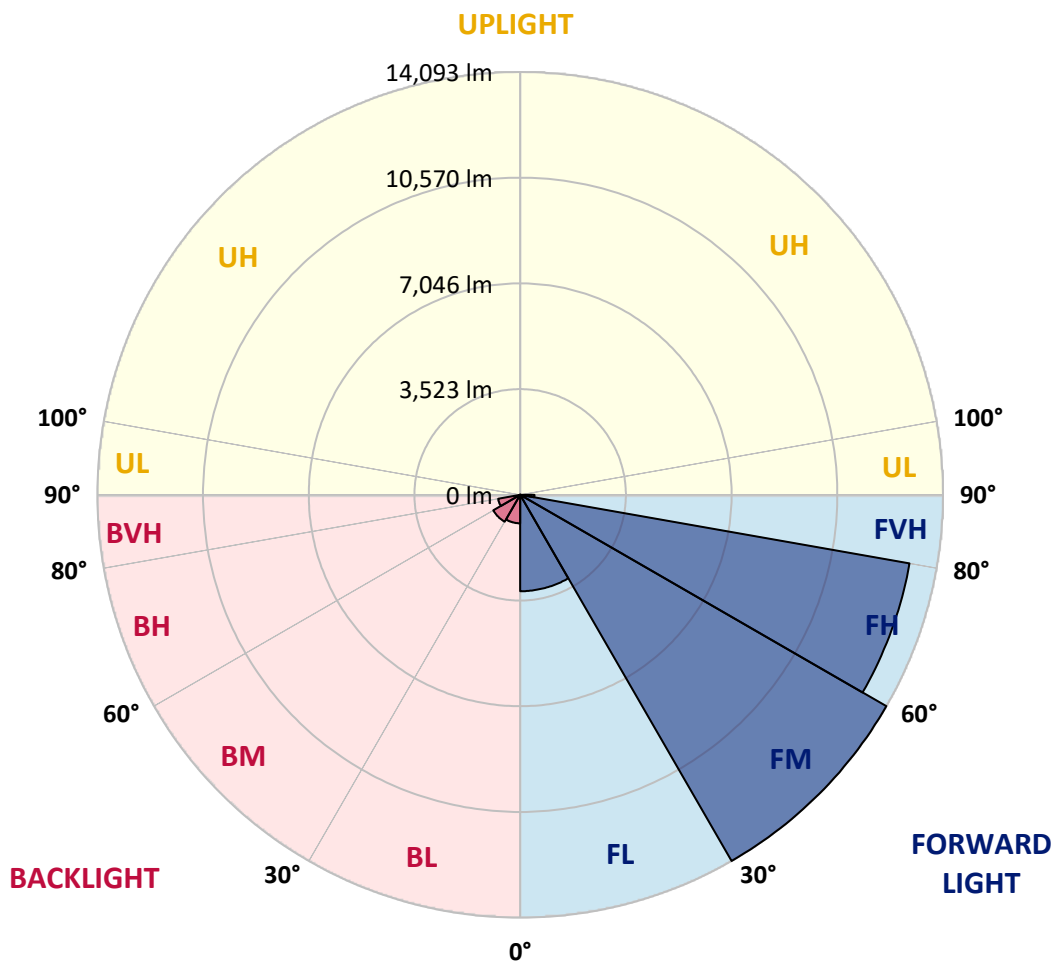
CATALOG NUMBER: GAA-AF-09-LED-U-SL3-8030-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3213.0	9.5			
FM (30°-60°)	14092.7	41.8			
FH (60°-80°)	13175.8	39.1			G5
FVH (80°-90°)	474.8	1.4			G3/500
BL (0°-30°)	949.9	2.8	B2/1000		
BM (30°-60°)	1034.1	3.1	B2/2500		
BH (60°-80°)	745.3	2.2	B2/1000		G2/1000
BVH (80°-90°)	15.1	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 III Short





REPORT NUMBER: P299995  
 CATALOG NUMBER: GAA-AF-09-LED-U-SL3-8030-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8771.7	8771.7	8771.7	8771.7	8771.7	8771.7	8771.7	8771.7	8771.7	8771.7	8771.7
2.5°	9614.0	9610.6	9568.5	9549.4	9514.8	9442.7	9330.2	9271.3	9176.1	9009.9	8787.2
5°	9526.3	9572.5	9596.7	9599.0	9623.8	9596.7	9495.8	9446.7	9315.2	9048.0	8648.2
7.5°	8932.1	8948.8	9019.8	9080.3	9198.6	9311.1	9347.5	9326.1	9248.2	8962.6	8430.7
10°	8295.7	8312.4	8396.6	8476.3	8636.6	8809.7	8992.6	9031.3	9063.6	8840.3	8221.2
12.5°	7746.4	7763.7	7849.7	7954.1	8141.0	8354.5	8638.4	8701.3	8844.4	8724.3	8053.3
15°	7273.8	7281.3	7365.6	7494.8	7718.1	7992.2	8314.7	8415.7	8634.9	8642.4	7906.8
17.5°	6871.7	6890.7	6942.7	7066.1	7310.2	7649.5	8025.1	8169.9	8426.6	8573.8	7763.7
20°	6625.9	6645.0	6643.2	6711.9	6931.1	7292.9	7735.4	7908.5	8221.2	8503.4	7636.2
22.5°	6578.6	6578.6	6529.0	6519.2	6649.0	6951.9	7434.2	7645.4	8036.0	8472.8	7546.8
25°	6748.2	6740.2	6616.7	6515.7	6521.5	6702.1	7142.3	7393.9	7880.2	8493.6	7498.9
27.5°	7106.5	7096.7	6940.4	6748.2	6593.6	6591.9	6921.3	7191.9	7756.2	8592.8	7517.9
30°	7601.6	7598.1	7428.5	7186.1	6906.3	6649.0	6845.2	7090.9	7676.0	8771.7	7561.8
32.5°	8142.8	8137.0	8009.5	7754.5	7399.6	6906.3	6925.4	7131.3	7699.1	9009.9	7668.5
35°	8716.8	8707.0	8651.6	8428.9	8038.3	7380.6	7188.5	7348.3	7843.9	9366.5	7877.9
37.5°	9337.7	9347.5	9387.3	9173.8	8764.2	8045.8	7628.7	7737.2	8135.3	9850.6	8218.9
40°	10254.5	10252.7	10266.0	9985.6	9591.5	8859.4	8243.7	8278.4	8623.4	10492.8	8737.6
42.5°	11917.9	11801.9	11449.4	10877.6	10481.2	9789.4	9019.8	8983.4	9220.0	11287.2	9463.4
45°	14153.6	13905.5	12991.0	11895.4	11388.2	10837.8	9974.1	9858.1	10008.7	12242.1	10359.5
47.5°	16076.1	15818.8	14525.2	12954.7	12350.6	11832.5	11092.8	10883.4	10933.0	13311.3	11495.0
50°	16729.8	16604.0	15474.3	13877.3	13282.4	13084.5	12391.0	12135.4	12065.0	14547.7	12811.6
52.5°	16503.0	16493.8	15740.9	14475.6	14136.3	14380.4	14023.8	13728.4	13469.3	15851.6	14151.3
55°	16139.0	16186.9	15849.3	14999.5	14987.9	15563.7	16257.3	16011.5	15260.8	17267.5	15306.4
57.5°	15135.0	15338.7	15788.8	15990.7	16459.2	17048.3	18117.4	18262.2	17374.3	18351.7	16264.8
60°	12280.2	12727.9	14199.2	16133.2	18355.7	19822.9	20362.4	20485.9	19108.1	19252.9	17558.9
62.5°	8716.8	9173.8	11039.7	14311.7	18384.0	23468.2	23706.5	23220.7	21017.8	20589.1	19790.6
65°	4626.7	4979.8	6504.2	10330.6	15939.3	24314.6	29555.2	28107.0	24386.7	23216.7	22673.7
67.5°	2366.7	2473.5	3079.9	5056.0	10957.8	21597.1	34797.6	35817.1	30193.4	25824.0	22534.7
69°	2094.4	2157.3	2559.4	3655.1	7016.5	18292.8	35053.2	38464.2	33233.4	25606.5	20478.4
70°	2027.5	2082.9	2448.7	3308.3	5484.7	15340.4	34075.2	38231.7	34010.6	24779.7	18942.5
72.5°	1721.1	1768.4	2180.4	2923.5	4457.7	7614.8	27680.1	32396.8	30519.3	20642.2	13711.1
75°	1151.1	1307.4	2092.7	2740.6	4146.7	4326.1	18249.0	23411.1	21747.7	13922.8	7142.3
77.5°	276.4	297.1	590.8	2180.4	3792.4	3807.4	9385.6	14553.5	11870.6	4962.5	1688.2
80°	148.9	143.1	165.6	432.7	3531.0	3573.2	4225.1	7064.4	4238.4	823.3	556.2
82.5°	105.0	99.2	106.7	181.2	1111.2	3254.7	3056.8	3197.6	1756.9	316.2	249.8
85°	38.1	36.3	58.9	163.9	348.5	1871.1	3140.4	2637.3	1423.4	144.8	182.9
87.5°	13.3	11.5	23.1	89.4	106.7	796.8	1938.0	1993.4	560.2	87.7	86.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299995

CATALOG NUMBER: GAA-AF-09-LED-U-SL3-8030-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8771.7	8771.7	8771.7	8771.7	8771.7	8771.7	8771.7	8771.7	8771.7	8771.7	8771.7
2.5°	8693.8	8575.5	8358.5	8135.3	7929.3	7681.8	7557.7	7436.0	7384.6	7365.6	7276.2
5°	8442.2	8242.0	7781.0	7317.7	6890.7	6437.2	6138.4	5898.4	5757.0	5688.3	5579.9
7.5°	8120.3	7792.5	7092.7	6378.4	5713.1	5057.7	4571.9	4198.0	3940.7	3817.2	3704.7
10°	7807.5	7371.4	6376.7	5402.7	4499.2	3630.3	2959.3	2473.5	2163.1	2020.0	1928.8
12.5°	7527.7	6961.7	5684.9	4451.9	3317.6	2300.4	1617.8	1231.3	1038.5	971.6	939.3
15°	7277.9	6584.4	5031.2	3548.4	2246.7	1314.9	884.5	752.9	722.4	722.4	718.3
17.5°	7041.3	6214.5	4400.0	2700.2	1410.1	804.3	672.7	655.4	655.4	662.9	662.9
20°	6814.6	5862.0	3790.1	1938.0	888.0	638.1	608.1	604.1	608.1	617.4	617.4
22.5°	6620.1	5541.8	3220.6	1329.9	659.5	575.2	560.2	554.5	556.2	562.0	566.0
25°	6475.3	5271.2	2683.5	901.2	567.7	523.9	507.2	497.3	489.8	489.8	493.3
27.5°	6384.2	5042.7	2163.1	655.4	510.6	476.6	449.5	434.5	417.1	407.9	411.4
30°	6317.2	4825.2	1674.9	535.4	457.5	422.9	388.9	364.1	339.3	327.7	331.8
32.5°	6292.4	4649.8	1252.0	472.5	409.6	371.6	329.4	297.1	270.6	260.8	263.1
35°	6359.4	4510.7	916.8	427.0	371.6	323.7	276.4	240.0	219.2	213.5	215.2
37.5°	6534.8	4436.3	686.0	388.9	337.5	283.9	230.8	196.2	182.9	182.9	184.6
40°	6865.9	4434.6	551.0	362.3	306.9	245.8	190.4	165.6	158.1	162.1	163.9
42.5°	7350.0	4535.6	480.0	337.5	280.4	209.4	158.1	140.8	139.0	143.1	144.8
45°	8011.2	4720.2	442.0	316.2	251.6	175.4	133.3	121.7	121.7	127.5	129.8
47.5°	8821.3	4990.8	409.6	295.4	222.7	146.6	114.2	106.7	108.5	114.2	116.0
50°	9796.9	5332.3	377.3	272.3	201.9	121.7	99.2	93.5	95.2	102.7	105.0
52.5°	10908.2	5791.6	350.8	251.6	175.4	101.0	83.7	80.2	83.7	91.7	93.5
55°	11860.8	6203.0	318.5	234.2	140.8	83.7	68.7	68.7	72.7	81.9	83.7
57.5°	12777.6	6633.4	289.6	201.9	110.8	66.9	57.1	58.9	64.6	74.4	76.2
60°	14123.0	7363.3	255.6	169.6	83.7	53.1	47.9	49.6	57.1	66.9	68.7
62.5°	16407.8	8474.5	221.0	140.8	64.6	42.1	38.1	42.1	51.4	62.9	64.6
65°	18469.9	8926.3	181.2	118.3	49.6	32.3	32.3	38.1	49.6	61.2	62.9
67.5°	17320.6	7513.9	140.8	93.5	38.1	24.8	26.5	36.3	47.9	61.2	62.9
69°	15317.9	6144.1	120.0	74.4	32.3	23.1	24.8	36.3	47.9	58.9	61.2
70°	13757.2	5187.5	106.7	62.9	28.8	23.1	24.8	34.0	47.9	58.9	61.2
72.5°	9214.2	2801.2	86.0	45.6	26.5	20.8	20.8	34.0	45.6	57.1	58.9
75°	3959.7	773.7	68.7	32.3	23.1	19.0	19.0	32.3	43.8	55.4	58.9
77.5°	724.1	196.2	55.4	28.8	23.1	19.0	17.3	30.6	42.1	53.1	55.4
80°	287.9	96.9	43.8	24.8	20.8	17.3	15.0	28.8	39.8	51.4	53.1
82.5°	173.7	55.4	36.3	23.1	20.8	15.0	13.3	24.8	38.1	49.6	51.4
85°	140.8	38.1	28.8	23.1	19.0	15.0	11.5	23.1	34.0	47.9	49.6
87.5°	68.7	26.5	26.5	20.8	19.0	15.0	11.5	20.8	32.3	45.6	47.9
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)