

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: P267158

Luminaire Tested: **GAN-AF-08-LED-U-SL3-7027-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-SL3-7027-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38843.1 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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

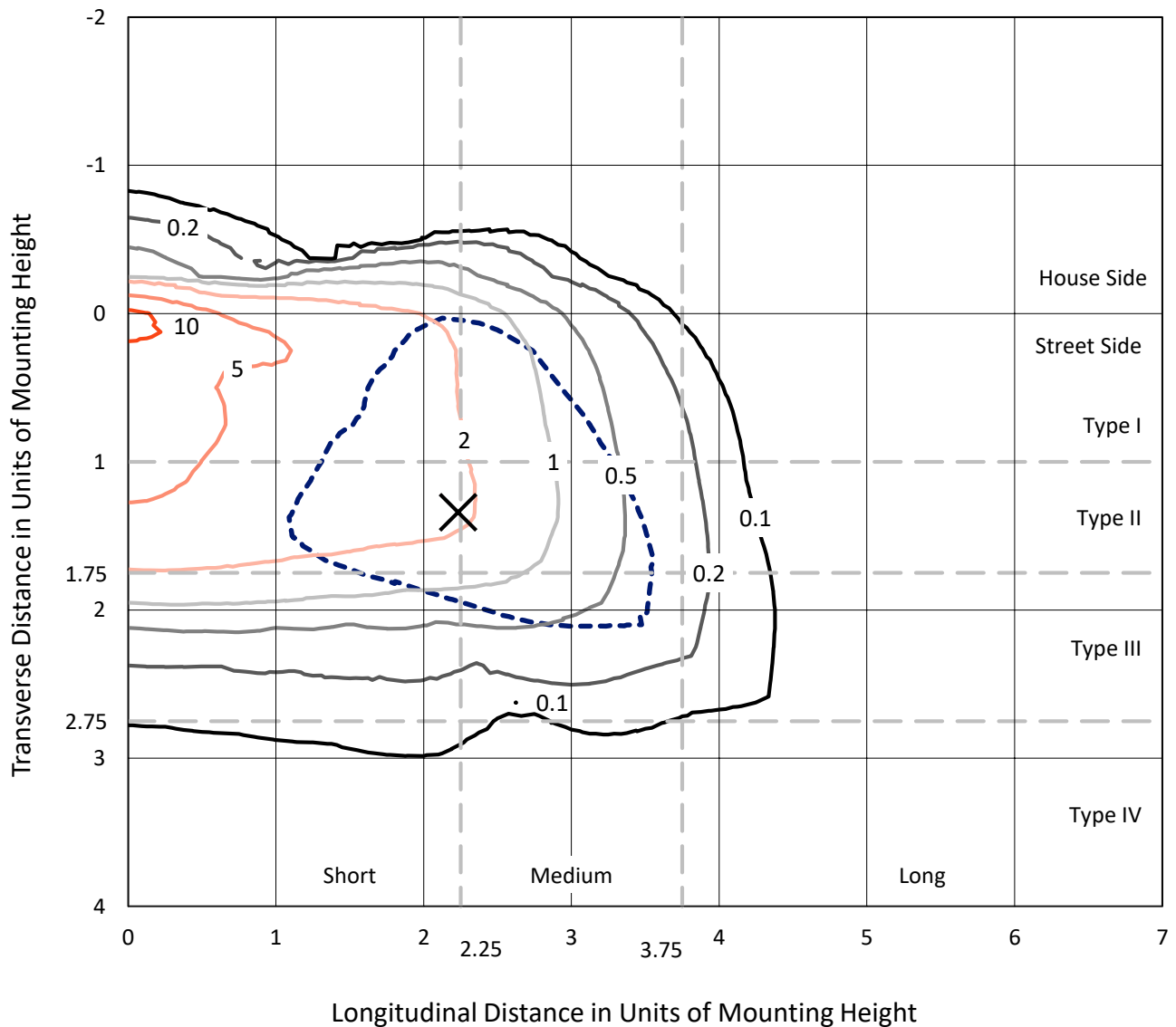


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

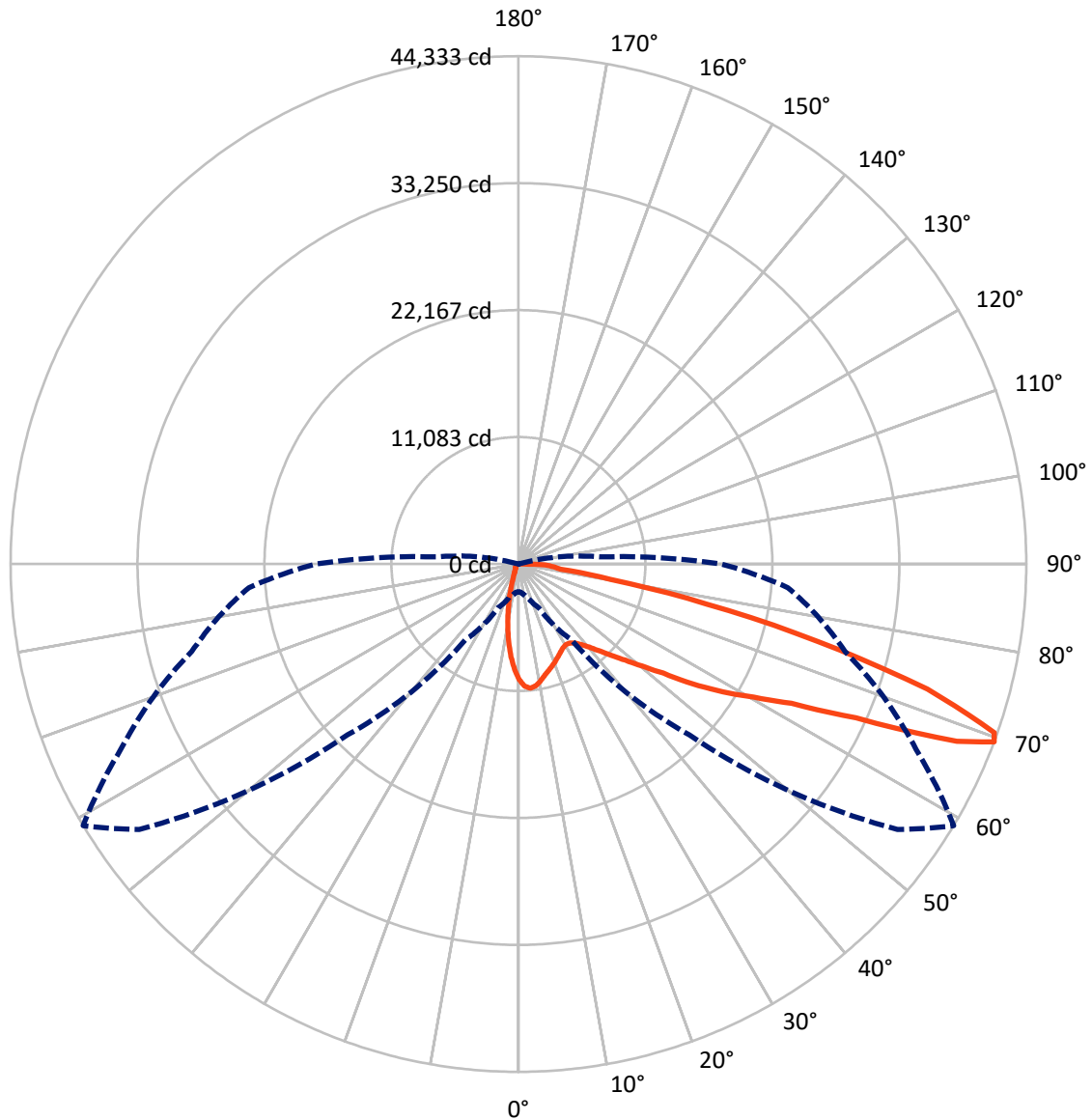


Based on 30 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - Non-Cutoff

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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
House Side	Lumens	3163.3	0.0	3163.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	35679.9	0.0	35679.9
	% Fixture	91.9	0.0	91.9
Total	Lumens	38843.1	0.0	38843.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.7	2.1
10°-20°	1695.7	4.4
20°-30°	2281.8	5.9
30°-40°	3313.0	8.5
40°-50°	5516.4	14.2
50°-60°	8605.5	22.2
60°-70°	10648.7	27.4
70°-80°	5396.6	13.9
80°-90°	564.7	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°	38843.1	100.0
0°-180°	38843.1	100.0

Coefficient of Utilization



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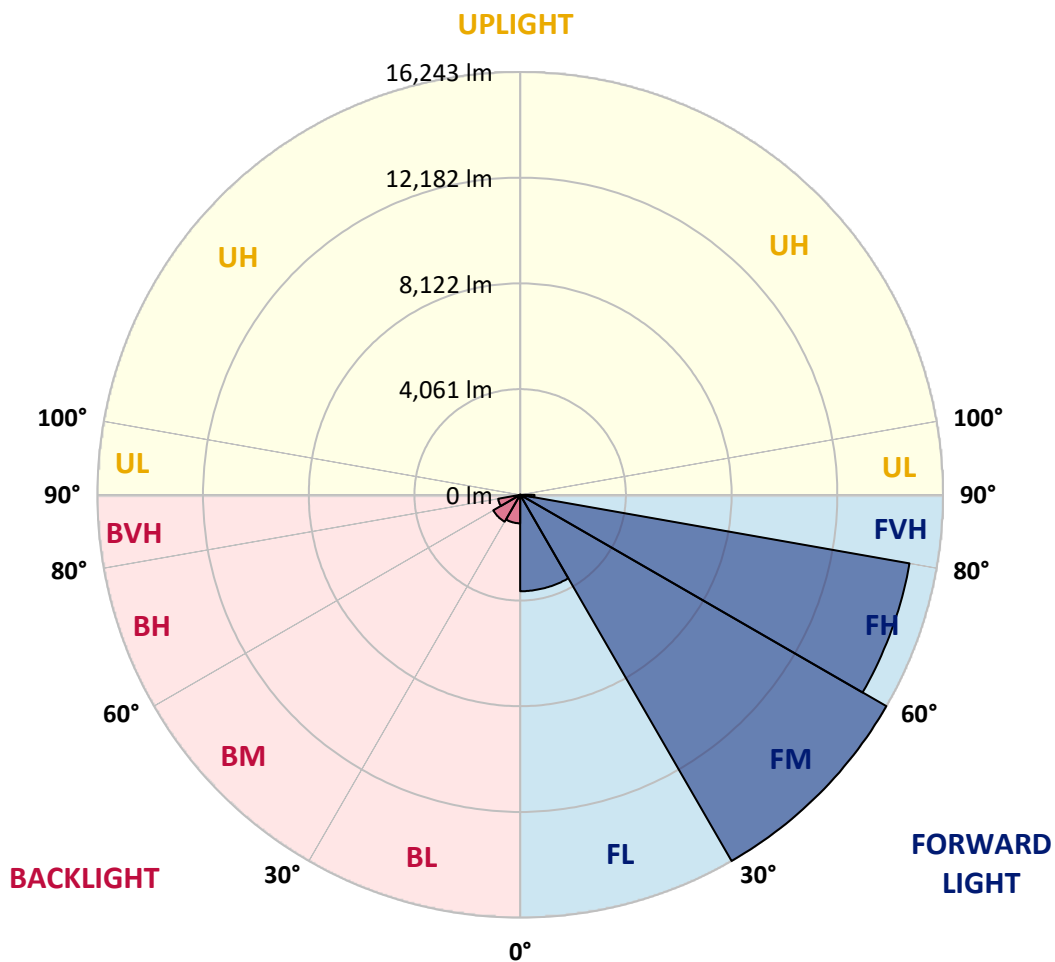
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3703.3	9.5			
FM	(30°-60°)	16243.1	41.8			
FH	(60°-80°)	15186.2	39.1			G5
FVH	(80°-90°)	547.3	1.4			G4/750
BL	(0°-30°)	1094.9	2.8	B3/2500		
BM	(30°-60°)	1191.9	3.1	B2/2500		
BH	(60°-80°)	859.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	17.4	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°	10110.3	10110.3	10110.3	10110.3	10110.3	10110.3	10110.3	10110.3	10110.3	10110.3	10110.3
2.5°	11081.1	11076.8	11028.4	11006.6	10967.0	10883.4	10753.9	10685.8	10575.9	10384.9	10127.9
5°	10980.2	11032.9	11061.4	11063.5	11092.1	11061.4	10944.9	10887.8	10736.4	10428.9	9967.6
7.5°	10294.8	10314.6	10395.8	10466.2	10602.3	10732.0	10773.6	10749.5	10659.5	10330.0	9717.1
10°	9561.2	9581.1	9677.6	9769.8	9954.4	10154.3	10365.2	10409.0	10446.4	10189.5	9475.5
12.5°	8928.7	8948.3	9047.2	9168.0	9383.2	9629.3	9956.5	10029.0	10193.7	10055.4	9282.2
15°	8383.9	8392.7	8489.3	8638.7	8895.6	9211.9	9583.2	9699.5	9952.2	9960.9	9113.1
17.5°	7920.4	7942.5	8001.7	8144.6	8425.7	8816.7	9249.3	9416.3	9712.7	9881.9	8948.3
20°	7637.1	7659.0	7656.9	7735.9	7988.5	8405.9	8915.5	9115.3	9475.5	9800.6	8801.2
22.5°	7582.2	7582.2	7525.1	7514.1	7663.5	8012.7	8568.5	8812.3	9262.6	9765.5	8698.0
25°	7777.6	7768.9	7626.2	7509.7	7516.3	7725.0	8232.3	8522.3	9082.4	9789.6	8643.1
27.5°	8190.7	8179.6	7999.5	7777.6	7599.8	7597.5	7977.6	8289.5	8939.7	9903.9	8665.1
30°	8761.7	8757.2	8561.8	8282.8	7960.1	7663.5	7889.8	8173.0	8847.3	10110.3	8715.5
32.5°	9385.5	9378.9	9231.7	8937.3	8528.9	7960.1	7982.0	8219.1	8873.6	10384.9	8838.6
35°	10046.6	10035.7	9971.9	9715.0	9264.7	8506.9	8285.1	8469.6	9040.6	10795.7	9080.2
37.5°	10762.7	10773.6	10819.7	10573.8	10101.5	9273.5	8792.4	8917.7	9376.7	11353.5	9473.3
40°	11819.2	11816.9	11832.4	11509.4	11054.8	10211.4	9501.9	9541.4	9938.9	12093.7	10070.8
42.5°	13736.7	13602.8	13196.3	12537.5	12080.5	11283.3	10395.8	10354.1	10626.5	13009.7	10907.6
45°	16313.1	16027.6	14973.3	13710.3	13126.0	12491.3	11496.2	11362.3	11535.9	14110.0	11940.0
47.5°	18529.3	18232.9	16741.4	14931.5	14235.4	13637.9	12785.7	12544.0	12601.2	15342.3	13249.1
50°	19282.7	19137.9	17835.3	15994.6	15309.4	15080.9	14281.4	13987.1	13905.9	16767.9	14766.8
52.5°	19021.4	19010.4	18142.8	16684.3	16293.4	16574.4	16163.8	15823.4	15524.6	18270.2	16311.0
55°	18601.8	18656.8	18268.0	17288.4	17275.1	17938.6	18738.0	18454.7	17589.4	19902.2	17642.1
57.5°	17444.4	17679.4	18197.8	18430.5	18970.9	19649.5	20881.8	21048.7	20025.1	21151.9	18746.8
60°	14154.1	14670.2	16365.9	18595.3	21156.3	22847.6	23469.2	23611.9	22023.9	22190.9	20238.3
62.5°	10046.6	10573.8	12724.1	16495.4	21189.3	27049.5	27324.0	26763.9	24224.9	23730.5	22810.3
65°	5333.0	5739.5	7496.5	11907.0	18371.2	28024.8	34064.9	32395.7	28108.1	26759.5	26133.5
67.5°	2728.1	2851.0	3549.6	5827.2	12629.7	24892.6	40107.4	41282.6	34800.8	29764.4	25973.1
69°	2413.9	2486.4	2949.9	4212.8	8087.4	21083.8	40401.8	44333.4	38304.2	29514.0	23603.1
70°	2337.0	2400.7	2822.5	3813.0	6321.5	17681.6	39274.9	44065.5	39200.2	28560.6	21832.9
72.5°	1983.4	2038.3	2512.7	3369.4	5137.5	8777.1	31903.7	37339.8	35176.4	23792.1	15803.5
75°	1326.6	1506.7	2411.7	3158.5	4779.5	4986.0	21033.4	26983.6	25066.0	16047.3	8232.3
77.5°	318.4	342.7	680.9	2512.7	4371.0	4388.5	10817.6	16774.4	13681.7	5719.6	1946.1
80°	171.3	164.7	191.1	498.6	4070.0	4118.4	4869.5	8142.2	4885.0	948.9	641.4
82.5°	120.8	114.3	123.0	208.6	1280.5	3751.5	3523.2	3685.7	2025.1	364.6	287.7
85°	43.9	41.7	68.1	189.0	401.9	2156.9	3619.8	3040.0	1640.8	166.9	210.8
87.5°	15.5	13.1	26.4	103.2	123.0	918.1	2233.8	2297.5	645.7	101.0	98.9
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°	10110.3	10110.3	10110.3	10110.3	10110.3	10110.3	10110.3	10110.3	10110.3	10110.3	10110.3
2.5°	10020.2	9884.1	9633.8	9376.7	9139.4	8854.0	8711.1	8570.5	8511.4	8489.3	8386.0
5°	9730.4	9499.7	8968.1	8434.5	7942.5	7419.6	7074.8	6798.1	6635.5	6556.5	6431.2
7.5°	9359.1	8981.3	8175.3	7351.5	6584.9	5829.5	5269.3	4838.8	4542.3	4399.4	4270.0
10°	8999.0	8495.9	7349.4	6227.1	5185.8	4184.2	3411.1	2851.0	2492.9	2328.2	2222.9
12.5°	8676.0	8023.8	6552.1	5130.9	3824.1	2651.2	1864.8	1419.0	1197.1	1120.1	1082.8
15°	8388.4	7588.8	5798.6	4089.9	2589.6	1515.6	1019.1	867.7	832.5	832.5	828.1
17.5°	8115.9	7162.6	5071.7	3112.4	1625.5	927.0	775.3	755.6	755.6	764.4	764.4
20°	7854.6	6756.3	4368.7	2233.8	1023.6	735.8	700.7	696.2	700.7	711.6	711.6
22.5°	7630.6	6387.3	3712.1	1533.1	760.0	663.3	645.7	639.1	641.4	647.9	652.3
25°	7463.6	6075.4	3092.7	1038.9	654.5	604.0	584.3	573.3	564.5	564.5	568.8
27.5°	7358.1	5811.9	2492.9	755.6	588.7	549.1	518.3	500.7	481.0	470.1	474.5
30°	7281.3	5561.4	1930.6	617.2	527.1	487.6	448.1	419.5	390.9	377.7	382.1
32.5°	7252.7	5359.4	1443.0	544.7	472.1	428.3	380.1	342.7	311.9	300.9	303.1
35°	7329.6	5199.0	1056.4	492.0	428.3	373.3	318.4	276.8	252.7	246.0	248.2
37.5°	7531.7	5113.3	790.7	448.1	388.7	327.3	265.8	226.3	210.8	210.8	213.1
40°	7913.9	5111.1	634.8	417.4	353.7	283.3	219.6	191.1	182.3	186.7	189.0
42.5°	8471.7	5227.5	553.5	388.7	322.9	241.6	182.3	162.6	160.3	164.7	166.9
45°	9233.9	5440.7	509.6	364.6	290.0	202.1	153.8	140.6	140.6	147.1	149.4
47.5°	10167.5	5752.6	472.1	340.5	256.9	169.2	131.8	123.0	125.3	131.8	133.9
50°	11292.1	6145.8	434.9	314.0	232.8	140.6	114.3	107.6	109.9	118.5	120.8
52.5°	12572.6	6675.0	404.1	290.0	202.1	116.4	96.7	92.3	96.7	105.5	107.6
55°	13670.8	7149.5	366.8	270.2	162.6	96.7	79.1	79.1	83.5	94.4	96.7
57.5°	14727.4	7646.0	333.9	232.8	127.4	76.8	65.8	68.1	74.6	85.7	87.9
60°	16277.9	8487.1	294.4	195.6	96.7	61.5	54.8	57.1	65.8	76.8	79.1
62.5°	18911.6	9767.7	254.8	162.6	74.6	48.2	43.9	48.2	59.3	72.6	74.6
65°	21288.2	10288.3	208.6	136.3	57.1	37.3	37.3	43.9	57.1	70.2	72.6
67.5°	19963.7	8660.6	162.6	107.6	43.9	28.6	30.7	41.7	54.8	70.2	72.6
69°	17655.2	7081.3	138.3	85.7	37.3	26.4	28.6	41.7	54.8	68.1	70.2
70°	15856.3	5978.8	123.0	72.6	33.0	26.4	28.6	39.5	54.8	68.1	70.2
72.5°	10619.9	3228.8	98.9	52.7	30.7	24.2	24.2	39.5	52.7	65.8	68.1
75°	4564.3	891.7	79.1	37.3	26.4	22.0	22.0	37.3	50.6	63.7	68.1
77.5°	834.6	226.3	63.7	33.0	26.4	22.0	19.8	35.2	48.2	61.5	63.7
80°	331.7	112.0	50.6	28.6	24.2	19.8	17.5	33.0	46.2	59.3	61.5
82.5°	199.9	63.7	41.7	26.4	24.2	17.5	15.5	28.6	43.9	57.1	59.3
85°	162.6	43.9	33.0	26.4	22.0	17.5	13.1	26.4	39.5	54.8	57.1
87.5°	79.1	30.7	30.7	24.2	22.0	17.5	13.1	24.2	37.3	52.7	54.8
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)