

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: P267326

Luminaire Tested: **GAN-AF-10-LED-U-SL4-7027-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL4-7027-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45573.2 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 640
Input Voltage (V): NR
Input Current (A_{in}): 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

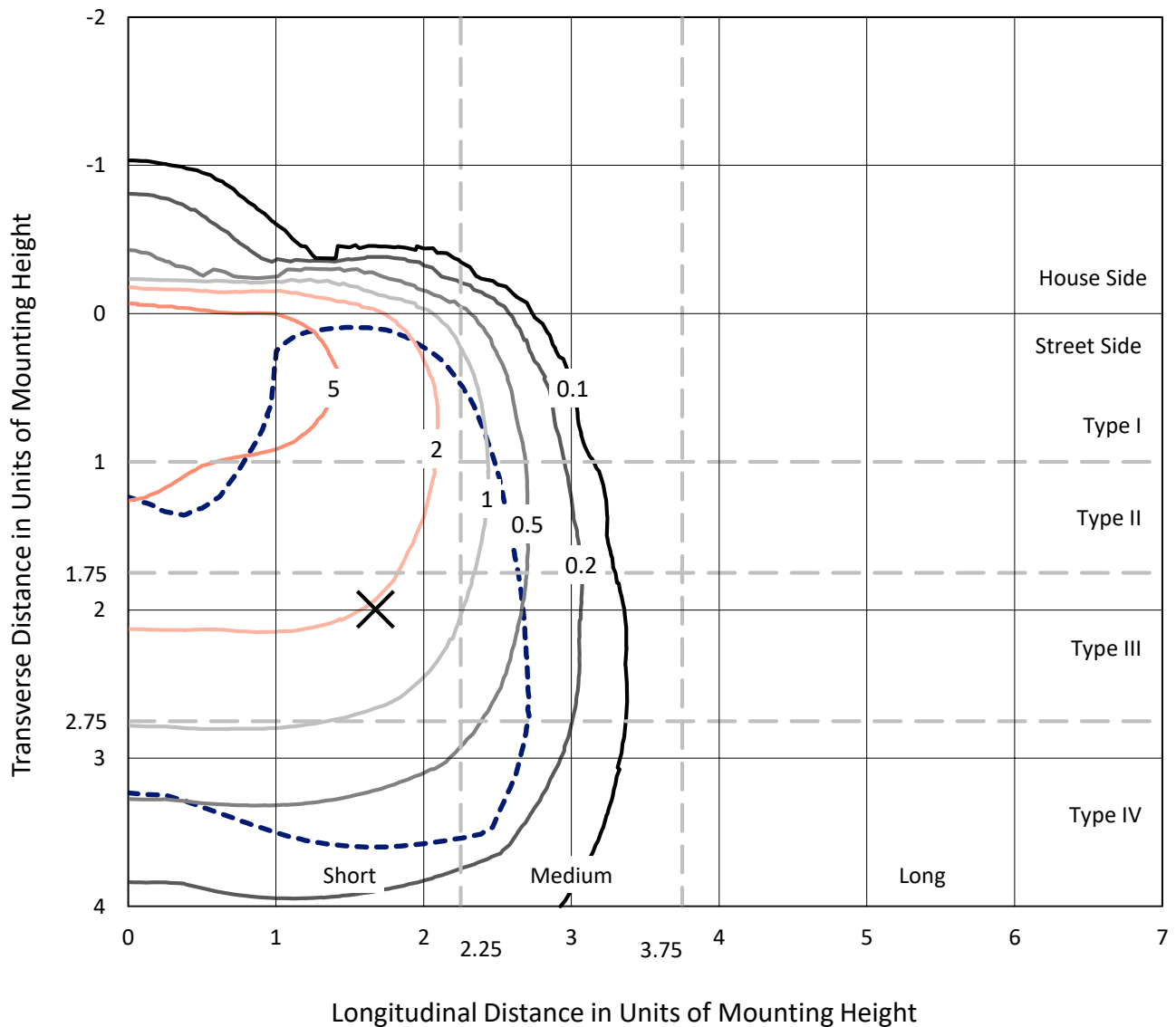


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

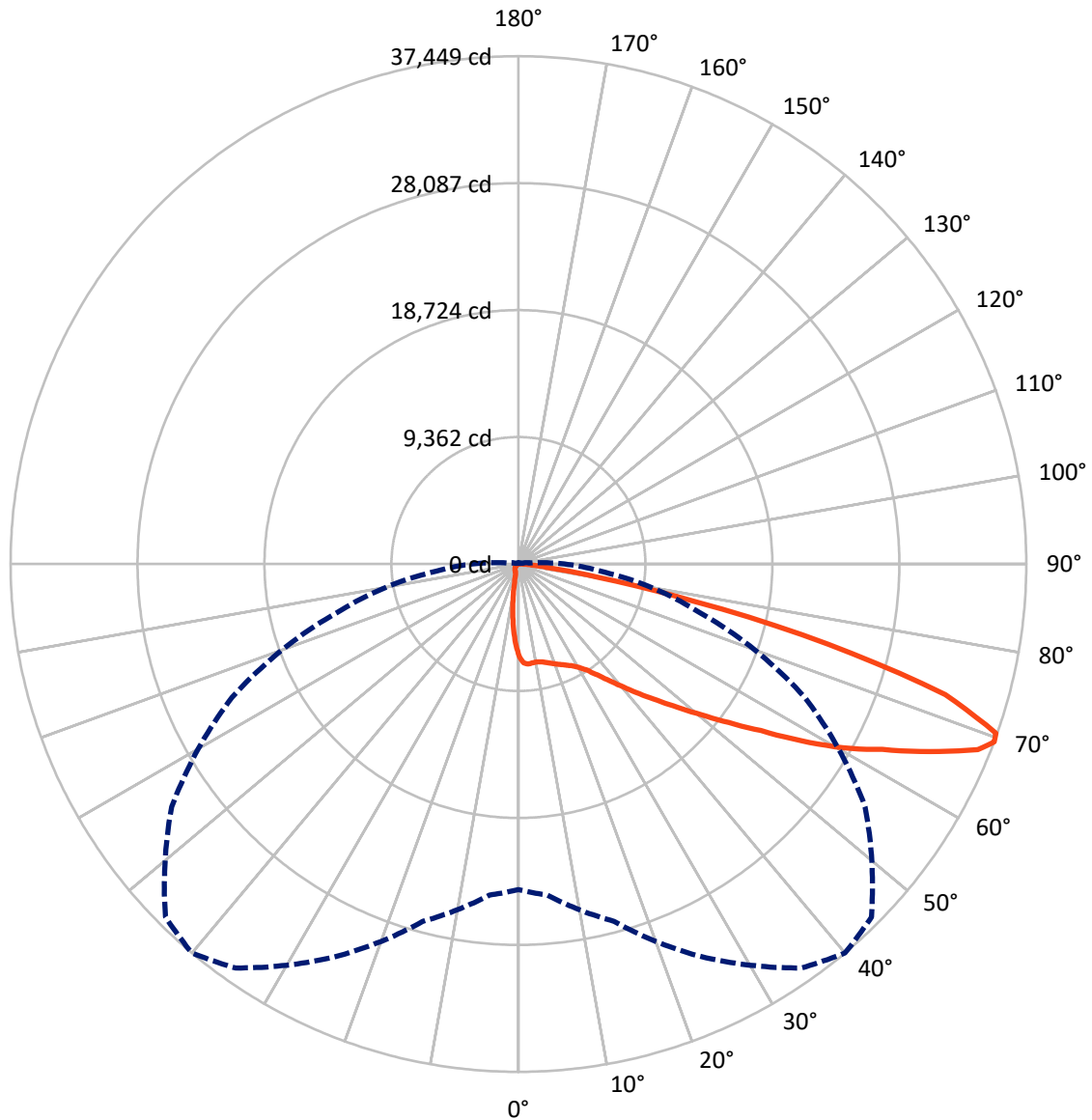


Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2666.3	0.0	2666.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	42906.9	0.0	42906.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	45573.2	0.0	45573.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.1	1.2
10°-20°	1357.6	3.0
20°-30°	2286.7	5.0
30°-40°	3743.4	8.2
40°-50°	6481.6	14.2
50°-60°	10209.2	22.4
60°-70°	13332.8	29.3
70°-80°	6867.0	15.1
80°-90°	742.8	1.6
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°	45573.2	100.0
0°-180°	45573.2	100.0



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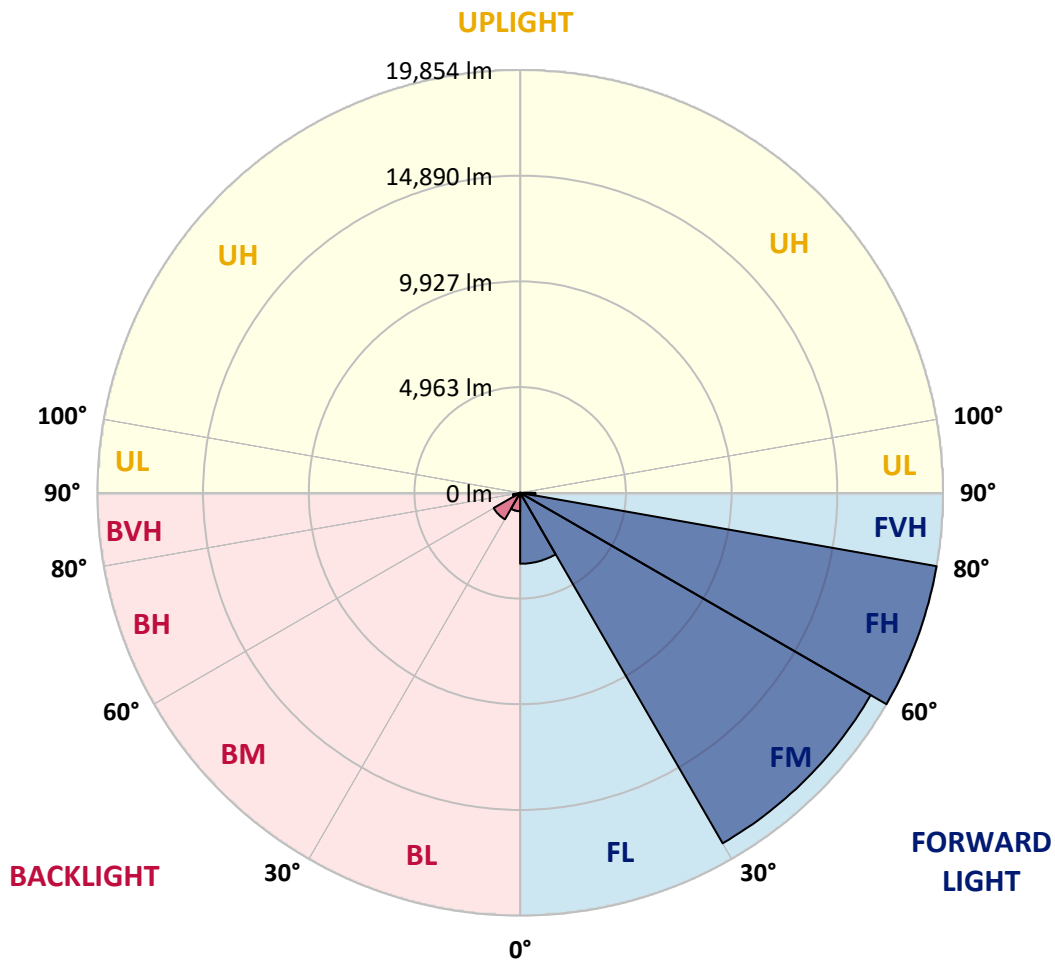
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3332.7	7.3			
FM	(30°-60°)	19001.1	41.7			
FH	(60°-80°)	19853.5	43.6			G5
FVH	(80°-90°)	719.5	1.6			G4/750
BL	(0°-30°)	863.7	1.9	B2/1000		
BM	(30°-60°)	1433.1	3.1	B2/2500		
BH	(60°-80°)	346.2	0.8	B1/500		G1/500
BVH	(80°-90°)	23.3	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6808.9	6808.9	6808.9	6808.9	6808.9	6808.9	6808.9	6808.9	6808.9	6808.9	6808.9
2.5°	7476.1	7435.5	7411.0	7378.5	7337.9	7302.6	7288.9	7188.6	7093.6	6963.5	6814.4
5°	7614.6	7601.0	7557.6	7514.1	7465.4	7411.0	7381.3	7261.9	7126.3	6936.4	6675.9
7.5°	7628.0	7611.8	7557.6	7498.0	7430.2	7364.9	7313.5	7194.0	7069.3	6876.6	6559.3
10°	7606.4	7587.4	7546.8	7481.7	7397.5	7335.1	7283.5	7169.6	7063.8	6890.2	6537.5
12.5°	7582.0	7563.0	7544.0	7511.4	7438.1	7394.8	7351.4	7242.9	7148.0	7001.5	6616.2
15°	7606.4	7595.6	7617.3	7603.7	7563.0	7525.0	7481.7	7384.0	7297.1	7175.1	6760.0
17.5°	7709.4	7709.4	7777.3	7785.4	7747.4	7693.3	7630.8	7533.1	7460.0	7356.8	6931.0
20°	7950.9	7942.8	8029.6	8045.8	7953.7	7869.5	7777.3	7658.0	7601.0	7535.8	7099.1
22.5°	8365.9	8327.9	8379.5	8363.2	8181.6	8051.2	7937.3	7790.9	7760.9	7731.2	7286.3
25°	8905.7	8884.1	8919.4	8759.4	8439.1	8262.9	8127.2	7961.8	7961.8	7991.6	7498.0
27.5°	9689.7	9608.4	9488.9	9206.9	8726.8	8501.6	8355.0	8178.8	8224.9	8336.1	7777.3
30°	10492.7	10403.2	10129.2	9695.1	9076.7	8840.7	8669.7	8485.3	8593.8	8797.3	8151.6
32.5°	11284.8	11184.4	10796.5	10248.6	9578.4	9342.6	9177.1	8973.6	9155.3	9497.2	8699.6
35°	12052.5	11963.0	11515.5	10869.9	10245.9	10050.5	9898.7	9722.3	9955.6	10433.0	9472.7
37.5°	12915.1	12817.5	12272.3	11572.3	11057.0	10915.8	10804.6	10628.3	11035.1	11735.1	10549.6
40°	13975.8	13810.4	13075.2	12378.0	11995.5	11927.8	11851.8	11827.4	12459.4	13427.9	11984.6
42.5°	15191.1	14919.8	13916.2	13227.2	13026.3	13075.2	13056.1	13164.8	14241.5	15533.0	13731.6
45°	16406.4	16056.5	14851.9	14133.2	14160.3	14331.2	14436.9	14871.0	16474.1	17947.1	15611.6
47.5°	17437.2	17092.7	15750.0	15112.5	15437.9	15774.2	16061.9	16883.9	18769.1	20323.6	17073.6
50°	18318.9	17993.3	16702.0	16189.3	16921.8	17464.3	17930.9	19148.9	21237.6	22132.9	18099.1
52.5°	19040.4	18823.4	17689.5	17423.6	18617.3	19412.1	20095.7	21555.1	23424.2	23603.1	18896.7
55°	19742.9	19588.4	18750.1	18891.1	20608.3	21690.7	22556.0	24107.8	25306.7	24829.3	19661.7
57.5°	20551.3	20410.3	19960.0	20752.1	23226.0	24587.9	25531.8	26370.0	26964.2	26082.6	20383.3
60°	21376.0	21294.6	21305.6	22819.1	26231.8	27539.2	28060.0	28277.0	28591.9	27262.7	20423.9
62.5°	22162.8	22317.3	22843.5	25119.6	29109.9	30113.6	30376.7	30591.1	30222.0	27449.8	18869.4
65°	23494.6	23747.0	25002.9	28198.4	32275.7	33349.8	33621.1	32886.1	30479.9	25030.1	15348.4
67.5°	24145.7	24606.8	26847.6	31068.5	35346.4	36539.9	36439.6	33035.2	27352.1	19086.5	9849.7
69°	24010.1	24501.0	27273.4	31947.4	36366.4	37448.7	36811.3	31209.5	23302.0	13826.6	6046.6
70°	23472.9	23969.4	27053.6	31914.9	36496.6	37353.9	36122.3	28955.2	19702.3	10110.2	3781.4
72.5°	19601.9	20030.5	24018.3	28846.8	33621.1	32924.0	30219.4	20060.4	9600.2	2753.3	851.9
75°	12066.0	12304.8	17233.8	21731.3	25393.5	23603.1	20133.6	9980.0	2861.9	778.6	472.0
77.5°	6374.8	6483.3	9434.8	12809.3	16097.1	13319.3	10319.1	3892.7	1318.4	488.3	341.7
80°	3767.9	3849.2	5080.9	5856.7	6966.1	5818.7	4126.1	2389.9	943.9	306.5	303.8
82.5°	2156.7	2208.2	3683.8	3255.3	2745.2	2343.8	2053.5	2265.0	567.0	206.3	314.6
85°	792.1	802.9	2072.5	2476.6	1633.1	971.2	1019.9	1877.2	152.0	130.3	246.9
87.5°	368.9	360.8	1066.1	1516.3	954.9	615.8	794.8	412.3	59.6	84.1	67.8
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°	6808.9	6808.9	6808.9	6808.9	6808.9	6808.9	6808.9	6808.9	6808.9	6808.9	6808.9
2.5°	6727.4	6627.1	6445.3	6258.2	6068.3	5921.7	5778.1	5664.2	5626.2	5555.6	5561.0
5°	6521.3	6336.9	5957.1	5571.8	5170.4	4839.4	4527.5	4275.3	4153.1	4028.4	4028.4
7.5°	6342.3	6073.7	5479.7	4853.1	4204.6	3659.4	3168.4	2799.5	2596.0	2433.2	2430.5
10°	6274.4	5910.9	5080.9	4183.0	3279.6	2536.4	1953.2	1578.9	1386.2	1261.4	1256.0
12.5°	6304.2	5854.0	4774.3	3564.5	2430.5	1630.3	1131.1	889.9	808.4	770.3	770.3
15°	6391.1	5837.7	4467.8	2959.6	1717.1	1019.9	751.4	686.3	680.8	680.8	680.8
17.5°	6496.9	5843.1	4153.1	2370.8	1169.1	729.8	648.3	640.2	645.6	645.6	645.6
20°	6605.3	5845.9	3814.1	1825.6	824.6	634.7	610.4	607.7	613.1	613.1	615.8
22.5°	6738.4	5859.5	3475.0	1364.4	680.8	599.4	580.6	580.6	583.2	583.2	580.6
25°	6890.2	5886.6	3122.2	1011.9	621.2	575.0	558.8	556.1	558.8	556.1	553.4
27.5°	7080.1	5924.5	2729.1	792.1	594.0	550.8	537.0	537.0	534.4	531.6	529.0
30°	7318.9	5967.9	2286.7	672.7	567.0	529.0	515.4	512.8	510.0	504.6	504.6
32.5°	7682.3	6062.9	1850.1	610.4	537.0	499.2	488.3	488.3	482.8	477.4	474.8
35°	8241.2	6250.0	1459.4	572.4	504.6	466.6	453.0	453.0	447.5	444.9	442.1
37.5°	9014.3	6534.9	1133.9	537.0	472.0	431.4	417.7	415.0	409.5	404.1	401.5
40°	10042.4	6887.6	892.5	504.6	439.5	396.1	385.3	379.8	368.9	360.8	360.8
42.5°	11333.6	7288.9	724.4	469.4	401.5	363.5	355.4	347.3	328.2	320.1	317.5
45°	12684.5	7649.7	613.1	428.6	363.5	330.9	325.5	311.9	287.5	279.5	279.5
47.5°	13658.4	7733.9	539.8	390.7	328.2	295.7	292.9	268.6	246.9	241.5	238.7
50°	14266.1	7568.4	480.1	352.7	295.7	263.2	254.9	225.1	211.6	206.3	203.5
52.5°	14675.7	7272.8	431.4	320.1	265.9	233.3	214.2	192.5	181.7	176.3	176.3
55°	15003.9	6855.0	382.5	290.2	241.5	208.9	181.7	165.5	154.6	149.2	149.2
57.5°	15096.1	6288.0	333.7	265.9	217.0	184.4	154.6	143.8	130.3	127.5	127.5
60°	14426.2	5265.3	295.7	236.1	195.3	160.1	135.6	122.1	108.5	105.8	103.0
62.5°	12660.2	4074.4	260.4	208.9	170.9	138.3	116.6	100.4	89.6	89.6	89.6
65°	9657.1	2731.7	227.9	181.7	149.2	116.6	100.4	81.3	75.9	75.9	78.7
67.5°	5780.8	1486.5	195.3	154.6	127.5	97.6	84.1	70.5	67.8	70.5	70.5
69°	3388.1	873.5	176.3	138.3	111.2	86.7	73.2	62.4	67.8	70.5	70.5
70°	2091.4	588.7	162.8	124.8	100.4	78.7	67.8	59.6	65.0	67.8	67.8
72.5°	583.2	303.8	130.3	97.6	81.3	65.0	54.3	54.3	62.4	65.0	65.0
75°	379.8	225.1	100.4	73.2	62.4	51.6	46.2	51.6	59.6	62.4	62.4
77.5°	314.6	184.4	81.3	59.6	51.6	48.8	43.4	46.2	54.3	57.0	57.0
80°	287.5	130.3	65.0	54.3	46.2	43.4	40.8	38.0	48.8	51.6	51.6
82.5°	274.1	103.0	57.0	48.8	43.4	38.0	35.3	38.0	43.4	46.2	48.8
85°	170.9	67.8	51.6	46.2	38.0	35.3	35.3	35.3	40.8	43.4	43.4
87.5°	62.4	54.3	46.2	38.0	32.6	32.6	32.6	32.6	35.3	40.8	40.8
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)