

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: P268837

Luminaire Tested: **GAN-AF-09-LED-U-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268837
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-09-LED-U-SL3-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA 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: 31910.9 lumens
Efficiency: N/A
Efficacy: 85.3 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): 374
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

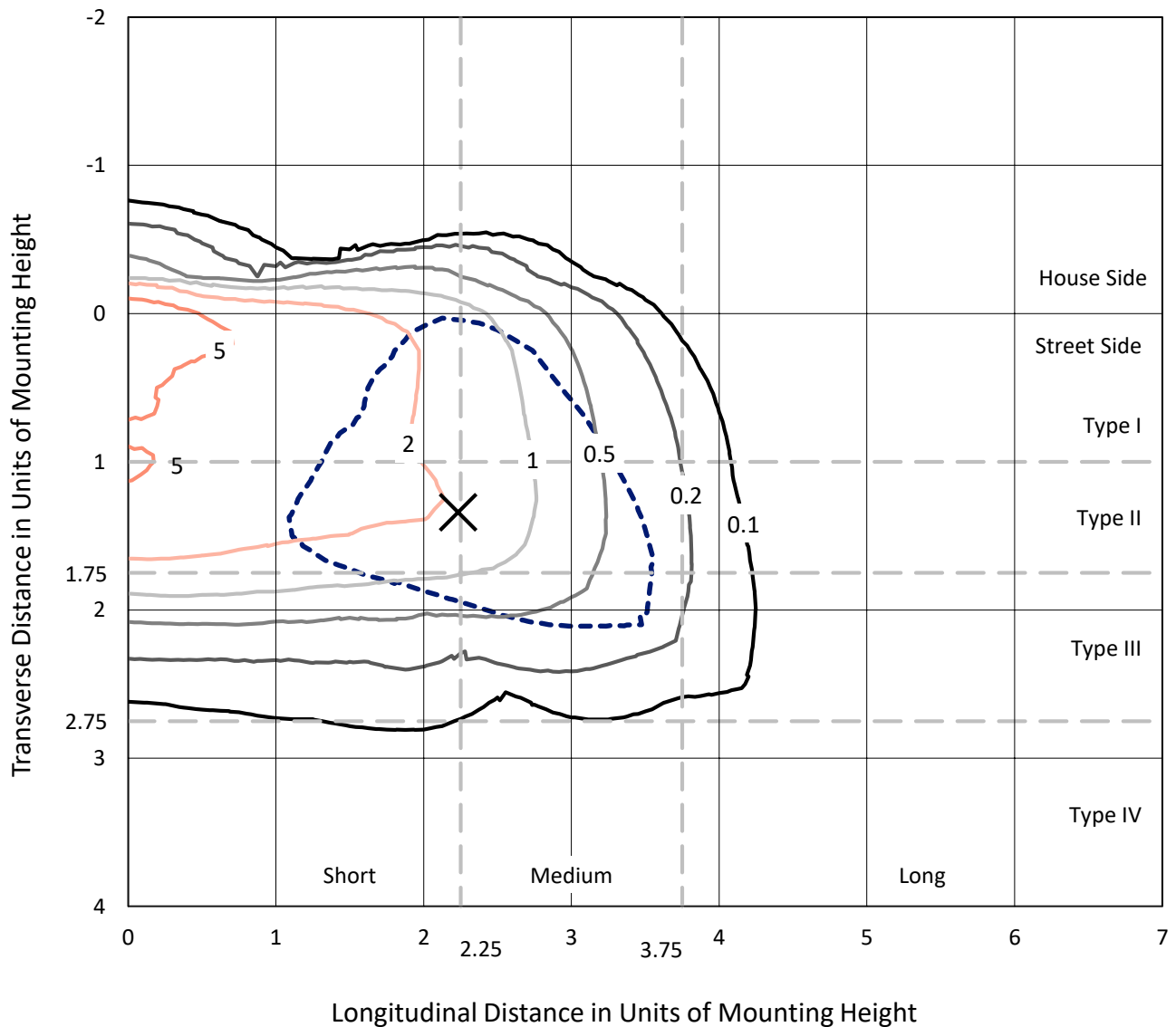


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

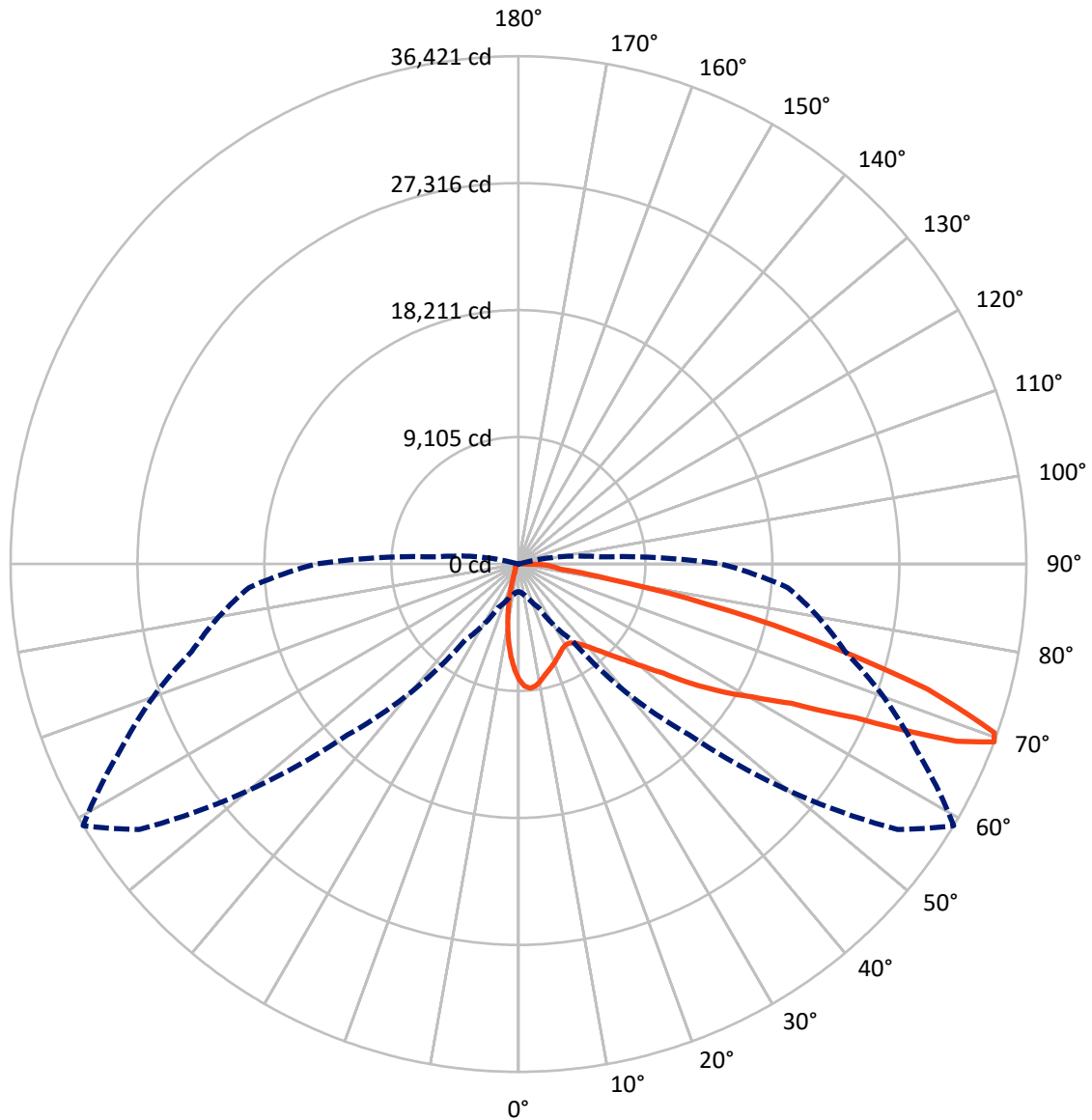


Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - Non-Cutoff

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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	2598.7	0.0	2598.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	29312.2	0.0	29312.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	31910.9	0.0	31910.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.2	2.1
10°-20°	1393.1	4.4
20°-30°	1874.6	5.9
30°-40°	2721.8	8.5
40°-50°	4531.9	14.2
50°-60°	7069.7	22.2
60°-70°	8748.2	27.4
70°-80°	4433.5	13.9
80°-90°	463.9	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°	31910.9	100.0
0°-180°	31910.9	100.0

Coefficient of Utilization



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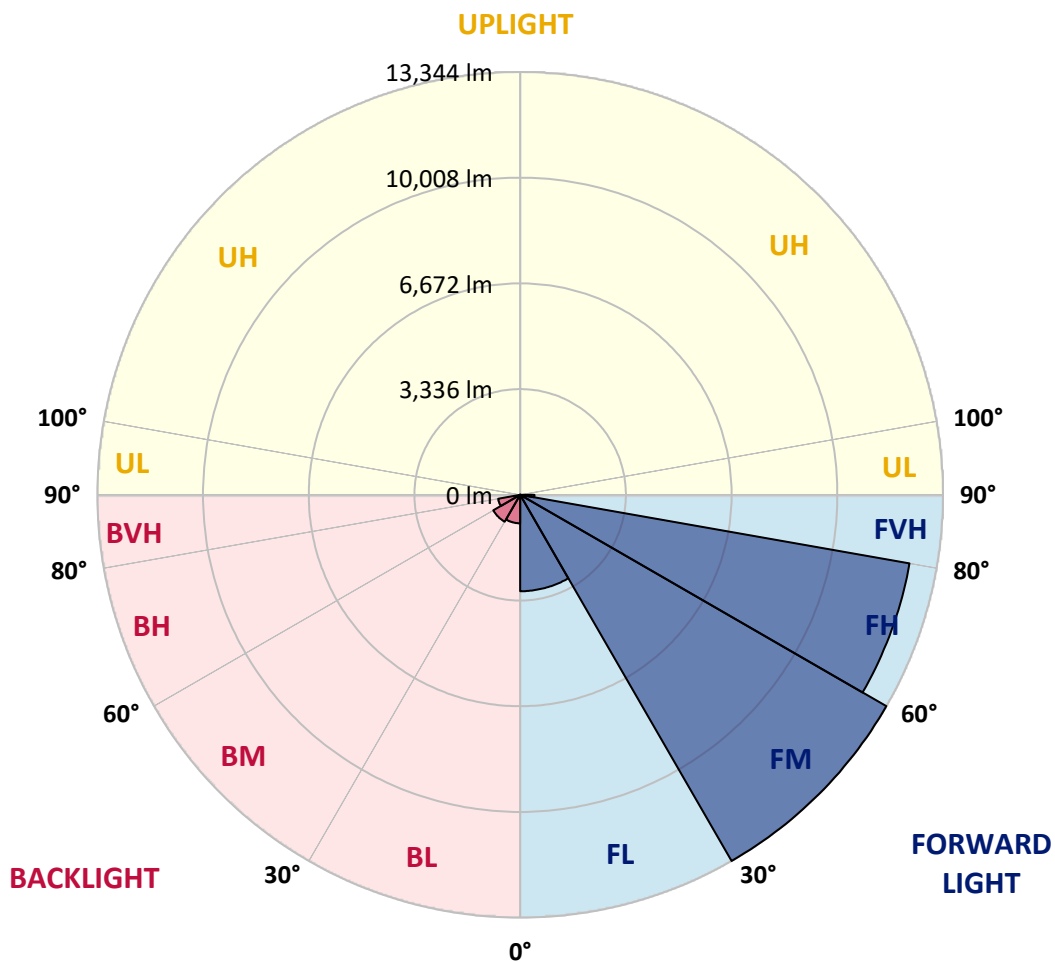
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3042.4	9.5			
FM	(30°-60°)	13344.2	41.8			
FH	(60°-80°)	12476.0	39.1			G5
FVH	(80°-90°)	449.6	1.4			G3/500
BL	(0°-30°)	899.5	2.8	B2/1000		
BM	(30°-60°)	979.2	3.1	B1/1000		
BH	(60°-80°)	705.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	14.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8306.0	8306.0	8306.0	8306.0	8306.0	8306.0	8306.0	8306.0	8306.0	8306.0	8306.0
2.5°	9103.6	9099.9	9060.2	9042.2	9009.7	8941.1	8834.7	8778.7	8688.4	8531.6	8320.5
5°	9020.5	9063.9	9087.3	9089.1	9112.5	9087.3	8991.7	8944.8	8820.3	8567.7	8188.7
7.5°	8457.5	8473.8	8540.5	8598.2	8710.1	8816.7	8850.9	8831.1	8757.0	8486.4	7983.0
10°	7854.9	7871.0	7950.4	8026.3	8177.8	8342.1	8515.4	8551.3	8582.0	8370.9	7784.5
12.5°	7335.2	7351.4	7432.5	7531.8	7708.6	7910.7	8179.6	8239.3	8374.4	8260.9	7625.7
15°	6887.7	6894.9	6974.4	7097.0	7308.2	7568.0	7872.8	7968.5	8176.1	8183.3	7486.7
17.5°	6507.0	6525.0	6573.6	6690.9	6921.9	7243.2	7598.7	7735.8	7979.4	8118.3	7351.4
20°	6274.1	6292.2	6290.4	6355.2	6562.8	6905.7	7324.3	7488.5	7784.5	8051.6	7230.5
22.5°	6229.0	6229.0	6182.1	6173.2	6295.9	6582.7	7039.2	7239.5	7609.5	8022.7	7145.7
25°	6389.6	6382.4	6265.0	6169.5	6174.9	6346.3	6763.2	7001.3	7461.5	8042.5	7100.7
27.5°	6728.8	6719.9	6571.9	6389.6	6243.5	6241.7	6553.9	6810.1	7344.3	8136.4	7118.6
30°	7197.9	7194.4	7033.8	6804.7	6539.4	6295.9	6481.6	6714.4	7268.4	8306.0	7160.1
32.5°	7710.5	7705.1	7584.2	7342.3	7006.8	6539.4	6557.4	6752.3	7290.0	8531.6	7261.2
35°	8253.6	8244.6	8192.4	7981.3	7611.2	6988.8	6806.5	6958.0	7427.1	8869.0	7459.6
37.5°	8841.8	8850.9	8888.8	8686.7	8298.7	7618.4	7223.4	7326.1	7703.2	9327.3	7782.6
40°	9709.8	9708.1	9720.6	9455.4	9081.9	8389.0	7806.1	7838.6	8165.2	9935.4	8273.5
42.5°	11285.1	11175.0	10841.3	10299.8	9924.6	9269.6	8540.5	8506.3	8730.0	10687.9	8961.0
45°	13401.9	13167.1	12301.1	11263.5	10783.6	10262.0	9444.6	9334.5	9477.1	11591.9	9809.1
47.5°	15222.5	14978.9	13753.7	12266.7	11694.8	11203.9	10503.8	10305.4	10352.2	12604.2	10884.6
50°	15841.4	15722.3	14652.3	13140.1	12577.1	12389.5	11732.7	11490.8	11424.0	13775.2	12131.4
52.5°	15626.6	15617.7	14904.9	13706.8	13385.6	13616.5	13279.0	12999.5	12754.0	15009.6	13399.9
55°	15282.1	15327.2	15007.8	14203.0	14192.1	14737.1	15394.0	15161.1	14450.1	16350.3	14493.6
57.5°	14331.1	14524.2	14950.0	15141.3	15585.2	16142.8	17155.1	17292.3	16451.3	17377.1	15401.1
60°	11628.0	12052.0	13445.1	15276.7	17380.6	18770.1	19280.7	19398.0	18093.4	18230.6	16626.4
62.5°	8253.6	8686.7	10453.2	13551.6	17407.7	22222.0	22447.6	21987.5	19901.5	19495.5	18739.5
65°	4381.3	4715.1	6158.7	9782.1	15092.6	23023.2	27985.4	26614.2	23091.8	21983.9	21469.6
67.5°	2241.1	2342.2	2916.0	4787.2	10375.8	20450.0	32949.7	33915.0	28589.9	24452.4	21337.8
69°	1983.1	2042.7	2423.4	3461.0	6644.0	17321.1	33191.4	36421.4	31468.2	24246.6	19390.9
70°	1919.9	1972.3	2318.7	3132.6	5193.2	14526.0	32265.7	36201.2	32204.3	23463.5	17936.4
72.5°	1629.4	1674.5	2064.3	2768.0	4220.6	7210.6	26209.8	30676.0	28898.6	19546.0	12983.2
75°	1090.0	1237.9	1981.3	2594.8	3926.5	4096.1	17279.5	22168.0	20592.6	13183.4	6763.2
77.5°	261.6	281.4	559.4	2064.3	3590.9	3605.3	8887.0	13780.7	11240.0	4698.9	1598.8
80°	140.8	135.4	157.1	409.5	3343.8	3383.3	4000.5	6689.1	4013.2	779.5	526.9
82.5°	99.3	93.9	101.1	171.4	1052.0	3082.1	2894.3	3027.8	1663.8	299.6	236.3
85°	36.1	34.2	56.0	155.1	330.1	1771.9	2973.7	2497.4	1347.9	137.1	173.3
87.5°	12.7	10.8	21.6	84.8	101.1	754.2	1835.1	1887.5	530.4	83.1	81.1
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°	8306.0	8306.0	8306.0	8306.0	8306.0	8306.0	8306.0	8306.0	8306.0	8306.0	8306.0
2.5°	8232.0	8120.0	7914.3	7703.2	7508.5	7273.8	7156.5	7041.1	6992.2	6974.4	6889.6
5°	7993.7	7804.4	7367.7	6929.2	6525.0	6095.4	5812.3	5584.9	5451.4	5386.3	5283.6
7.5°	7688.9	7378.5	6716.3	6039.6	5409.9	4789.0	4328.9	3975.2	3731.6	3614.3	3507.9
10°	7393.0	6979.7	6037.8	5115.7	4260.3	3437.5	2802.4	2342.2	2048.0	1912.8	1826.2
12.5°	7127.6	6591.8	5382.7	4215.2	3141.6	2178.0	1532.0	1165.7	983.5	920.3	889.6
15°	6891.3	6234.4	4763.8	3359.9	2127.5	1245.1	837.3	712.7	683.9	683.9	680.2
17.5°	6667.5	5884.3	4166.5	2556.9	1335.3	761.6	637.0	620.6	620.6	627.9	627.9
20°	6452.7	5550.5	3589.1	1835.1	840.9	604.5	575.6	572.0	575.6	584.6	584.6
22.5°	6268.7	5247.4	3049.6	1259.6	624.3	544.9	530.4	525.1	526.9	532.3	535.8
25°	6131.7	4991.2	2540.6	853.5	537.7	496.3	480.0	471.0	463.7	463.7	467.4
27.5°	6045.0	4774.6	2048.0	620.6	483.6	451.0	425.8	411.5	395.2	386.1	389.8
30°	5981.9	4568.9	1586.1	507.1	433.1	400.6	368.1	344.7	321.2	310.4	314.0
32.5°	5958.4	4403.0	1185.6	447.5	388.0	351.9	312.3	281.4	256.2	247.3	249.0
35°	6021.5	4271.3	867.9	404.1	351.9	306.7	261.6	227.5	207.5	202.1	203.9
37.5°	6187.5	4200.8	649.7	368.1	319.3	268.9	218.4	185.9	173.3	173.3	175.0
40°	6501.6	4198.9	521.5	342.9	290.5	232.8	180.5	157.1	149.7	153.4	155.1
42.5°	6959.9	4294.6	454.7	319.3	265.3	198.4	149.7	133.6	131.7	135.4	137.1
45°	7585.9	4469.6	418.6	299.6	238.2	165.9	126.3	115.5	115.5	120.9	122.7
47.5°	8352.9	4726.0	388.0	279.7	211.1	139.0	108.2	101.1	102.9	108.2	110.0
50°	9276.7	5049.0	357.3	258.1	191.2	115.5	93.9	88.5	90.2	97.5	99.3
52.5°	10328.8	5483.8	332.1	238.2	165.9	95.6	79.4	75.7	79.4	86.5	88.5
55°	11231.0	5873.6	301.3	221.9	133.6	79.4	64.9	64.9	68.6	77.7	79.4
57.5°	12098.9	6281.4	274.3	191.2	104.7	63.2	54.2	56.0	61.4	70.3	72.1
60°	13372.9	6972.5	241.9	160.5	79.4	50.6	45.2	46.9	54.2	63.2	64.9
62.5°	15536.5	8024.5	209.3	133.6	61.4	39.6	36.1	39.6	48.7	59.6	61.4
65°	17488.9	8452.2	171.4	111.8	46.9	30.7	30.7	36.1	46.9	57.8	59.6
67.5°	16400.8	7115.0	133.6	88.5	36.1	23.4	25.2	34.2	45.2	57.8	59.6
69°	14504.4	5817.7	113.6	70.3	30.7	21.6	23.4	34.2	45.2	56.0	57.8
70°	13026.4	4911.8	101.1	59.6	27.0	21.6	23.4	32.5	45.2	56.0	57.8
72.5°	8724.6	2652.5	81.1	43.3	25.2	19.9	19.9	32.5	43.3	54.2	56.0
75°	3749.6	732.6	64.9	30.7	21.6	18.1	18.1	30.7	41.5	52.3	56.0
77.5°	685.6	185.9	52.3	27.0	21.6	18.1	16.2	28.8	39.6	50.6	52.3
80°	272.5	92.0	41.5	23.4	19.9	16.2	14.5	27.0	37.9	48.7	50.6
82.5°	164.2	52.3	34.2	21.6	19.9	14.5	12.7	23.4	36.1	46.9	48.7
85°	133.6	36.1	27.0	21.6	18.1	14.5	10.8	21.6	32.5	45.2	46.9
87.5°	64.9	25.2	25.2	19.9	18.1	14.5	10.8	19.9	30.7	43.3	45.2
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)