

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: P268829

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30939.2 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

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

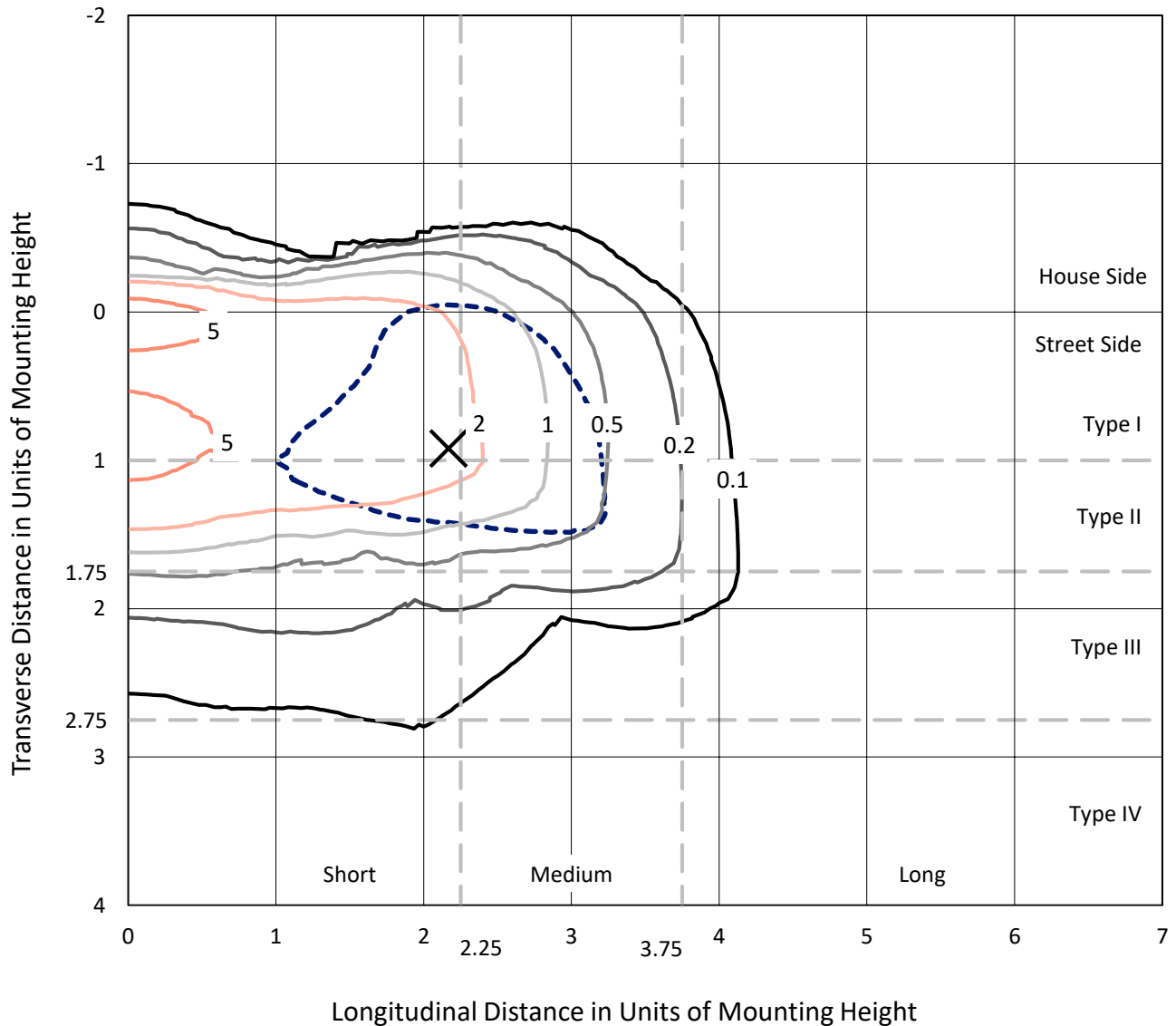


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

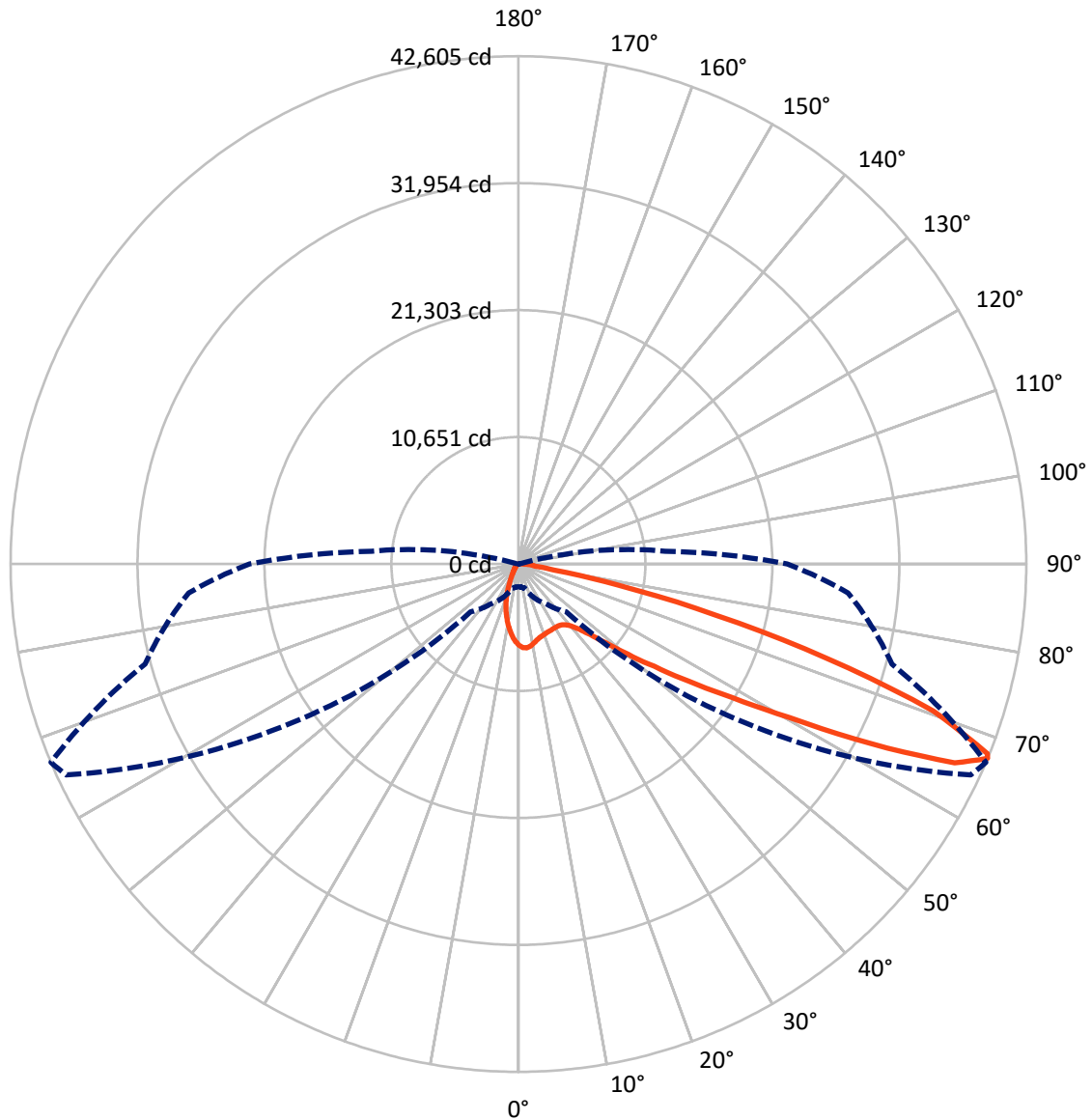


Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3212.4	0.0	3212.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	27726.8	0.0	27726.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	30939.2	0.0	30939.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.2	1.8
10°-20°	1181.7	3.8
20°-30°	1718.1	5.6
30°-40°	2680.2	8.7
40°-50°	4747.9	15.3
50°-60°	7513.0	24.3
60°-70°	8605.1	27.8
70°-80°	3569.4	11.5
80°-90°	368.7	1.2
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°	30939.2	100.0
0°-180°	30939.2	100.0



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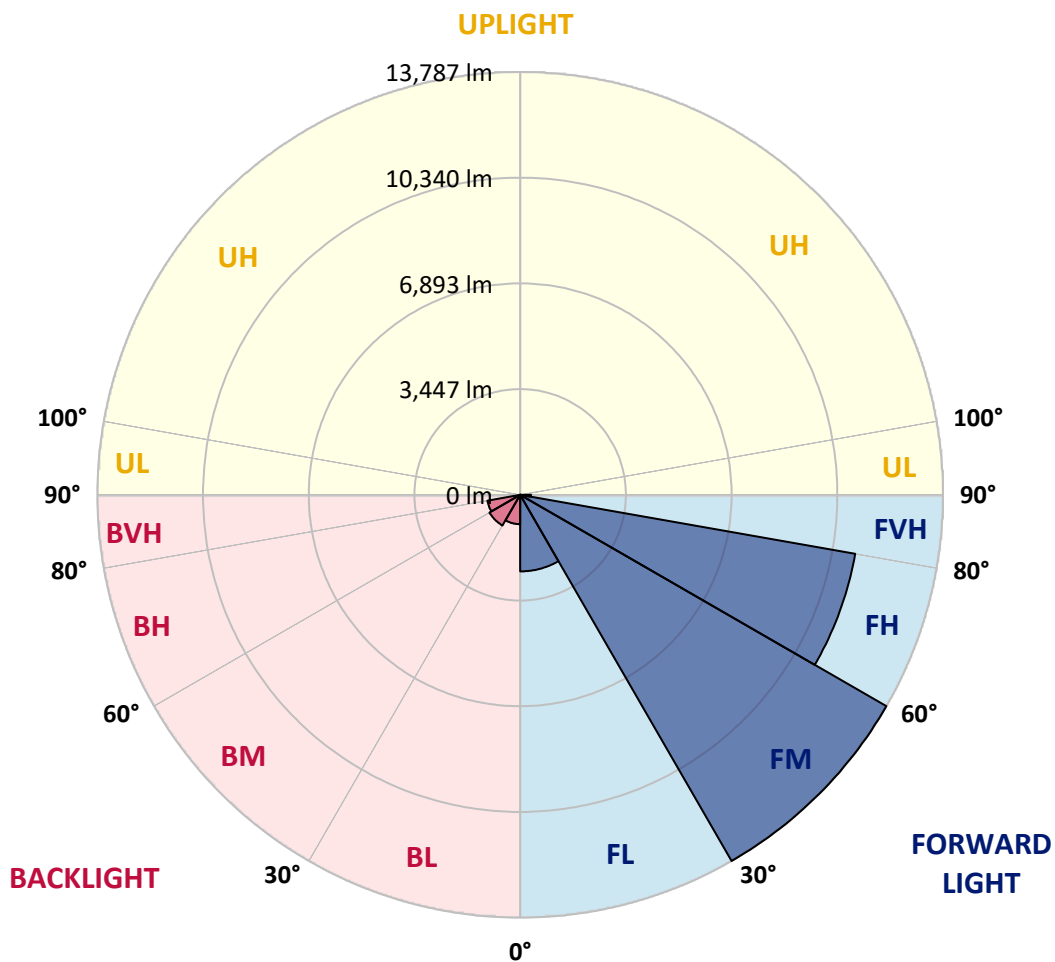
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2496.3	8.1			
FM (30°-60°)	13786.6	44.6			
FH (60°-80°)	11091.8	35.9			G4/12000
FVH (80°-90°)	352.1	1.1			G3/500
BL (0°-30°)	958.6	3.1	B2/1000		
BM (30°-60°)	1154.5	3.7	B2/2500		
BH (60°-80°)	1082.7	3.5	B3/2500		G3/2500
BVH (80°-90°)	16.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6823.3	6823.3	6823.3	6823.3	6823.3	6823.3	6823.3	6823.3	6823.3	6823.3	6823.3
2.5°	7054.2	7068.7	7066.8	7077.7	7103.0	7104.8	7079.5	7030.8	7020.0	6956.7	6846.7
5°	6505.6	6547.1	6572.4	6675.2	6790.7	6929.7	7034.4	7072.3	7066.8	7021.7	6855.8
7.5°	5879.4	5921.0	5949.8	6070.7	6224.0	6462.3	6734.9	6958.6	6978.5	7027.3	6848.5
10°	5462.6	5469.8	5509.5	5624.9	5785.7	6029.2	6354.0	6745.6	6805.2	6983.9	6830.4
12.5°	5119.7	5125.1	5177.4	5301.9	5473.5	5718.8	6059.8	6512.8	6604.9	6929.7	6826.8
15°	4876.1	4895.9	4942.8	5072.8	5255.1	5498.6	5848.8	6341.5	6451.4	6909.9	6859.4
17.5°	4794.9	4816.5	4830.9	4924.8	5090.9	5329.0	5688.2	6229.6	6354.0	6920.7	6922.5
20°	4879.7	4895.9	4863.5	4886.9	4989.7	5202.8	5552.9	6133.8	6281.8	6933.3	7003.7
22.5°	5195.4	5202.8	5114.3	5011.5	4993.4	5110.6	5446.3	6058.1	6216.9	6967.7	7099.3
25°	5736.8	5724.2	5579.8	5357.9	5148.5	5094.4	5383.2	6011.2	6184.4	7003.7	7198.6
27.5°	6390.2	6408.1	6209.7	5886.7	5487.8	5202.8	5374.1	5991.3	6170.0	7029.0	7285.3
30°	7184.1	7209.4	6982.0	6576.0	6003.9	5469.8	5457.2	5987.7	6160.9	7012.7	7292.4
32.5°	7994.5	8025.1	7846.4	7427.7	6693.4	5917.3	5644.8	6027.4	6179.0	6956.7	7250.8
35°	8842.6	8885.9	8766.7	8407.6	7628.0	6563.3	5975.0	6148.3	6263.8	6951.4	7209.4
37.5°	10013.8	10053.6	9829.8	9448.9	8759.6	7429.6	6505.6	6375.7	6464.2	7038.0	7220.2
40°	11762.4	11757.0	11179.5	10596.6	10002.9	8530.5	7250.8	6787.1	6832.2	7299.6	7353.9
42.5°	13668.2	13659.1	12805.6	11919.5	11383.5	9885.7	8230.8	7498.2	7467.5	7781.5	7700.4
45°	15137.1	15135.4	14438.6	13440.8	13045.5	11441.3	9497.7	8487.0	8440.1	8564.7	8339.1
47.5°	15763.3	15774.1	15424.1	14722.1	14888.1	13545.5	11094.7	9920.0	9849.6	9799.0	9456.2
50°	15276.0	15297.6	15326.6	15189.4	16239.6	16373.2	13236.9	11939.4	11905.1	11679.5	11143.5
52.5°	13684.4	13794.5	14133.8	14568.6	16709.0	19087.4	16595.2	14447.7	14263.6	14023.7	13433.6
55°	11002.7	11123.6	11767.8	12823.6	16010.5	20870.3	21301.7	17681.6	17374.7	16658.3	15806.7
57.5°	7281.7	7469.2	8404.2	9746.7	13982.2	21157.3	25997.3	22169.7	21101.4	19139.7	18179.7
60°	4011.7	4192.1	5206.2	6422.6	10098.7	19738.8	29155.3	28013.0	26125.3	21913.4	21061.7
62.5°	2470.5	2568.0	3316.9	4448.3	6056.4	15579.2	29808.5	35356.0	33170.6	25484.7	24542.8
65°	1967.0	2008.5	2374.8	3636.2	4341.9	9266.6	27699.0	40953.9	40224.8	29808.5	27659.4
67°	1909.3	1925.5	2098.8	3122.0	4092.9	5680.9	23205.6	41865.1	42605.2	32425.3	27756.8
67.5°	1922.0	1940.0	2104.2	2979.4	4085.6	5220.8	21657.1	41506.1	42441.0	32632.8	27325.5
70°	1853.4	1909.3	2409.2	2977.6	3885.3	4338.3	12969.8	35962.3	36935.0	30321.1	23185.7
72.5°	656.9	660.6	1041.2	2409.2	4224.5	4385.3	6512.8	26363.5	27083.7	23194.6	16716.1
75°	389.9	332.1	346.4	685.8	4037.0	4258.9	3757.3	16846.0	17115.0	13291.1	8465.4
77.5°	269.0	234.5	241.9	303.2	1537.4	4199.3	2984.8	8784.9	8498.0	4661.3	1802.8
80°	153.4	135.4	144.4	265.3	559.5	3917.8	2815.2	3562.3	3037.2	790.4	498.1
82.5°	81.1	68.6	83.1	218.4	389.9	2441.7	2820.6	1721.6	1364.3	267.1	339.3
85°	28.8	23.4	39.7	149.7	259.9	748.8	2614.8	1447.3	1137.0	130.0	258.1
87.5°	5.4	5.4	16.2	61.4	104.7	229.2	1546.5	859.0	575.6	77.7	176.8
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°	6823.3	6823.3	6823.3	6823.3	6823.3	6823.3	6823.3	6823.3	6823.3	6823.3	6823.3
2.5°	6801.5	6724.1	6619.3	6491.2	6339.6	6206.1	6106.8	6003.9	5982.4	5946.2	5940.9
5°	6756.5	6622.9	6363.1	6065.3	5747.6	5460.7	5228.0	5020.4	4928.5	4849.1	4840.0
7.5°	6689.7	6489.4	6047.3	5567.2	5070.9	4619.9	4237.2	3966.6	3717.5	3598.4	3580.4
10°	6612.2	6325.1	5691.8	5025.8	4340.2	3703.1	3134.6	2658.3	2369.5	2198.1	2176.4
12.5°	6539.9	6164.6	5329.0	4464.7	3553.2	2701.6	1970.6	1515.9	1212.7	1090.1	1075.5
15°	6505.6	6034.6	4989.7	3890.7	2730.4	1719.7	1077.3	833.7	734.5	705.6	703.8
17.5°	6502.0	5924.5	4657.7	3297.0	1912.9	999.8	701.9	640.6	620.8	613.5	613.5
20°	6500.2	5819.8	4325.7	2681.7	1214.5	666.0	584.6	570.2	555.8	546.8	546.8
22.5°	6520.1	5726.1	3979.2	2053.6	765.1	539.6	514.3	499.8	481.9	469.3	467.4
25°	6539.9	5653.8	3625.5	1461.7	554.1	469.3	443.9	424.1	398.8	382.6	380.8
27.5°	6543.6	5563.7	3246.6	978.2	463.7	409.6	377.2	346.4	317.6	301.4	299.6
30°	6489.4	5412.1	2826.0	660.6	409.6	355.5	312.3	279.7	252.7	239.9	239.9
32.5°	6382.9	5224.4	2364.0	498.1	364.5	305.0	258.1	227.5	209.3	203.9	202.1
35°	6287.2	5022.2	1889.4	422.3	326.7	258.1	211.1	191.2	180.5	178.7	176.8
37.5°	6231.4	4859.8	1443.7	382.6	290.5	216.5	178.7	164.2	158.8	155.1	157.1
40°	6274.7	4724.5	1066.5	350.1	254.5	180.5	151.5	144.4	139.0	137.1	137.1
42.5°	6464.2	4701.0	792.2	321.2	220.2	149.7	131.7	126.3	122.7	120.9	122.7
45°	6962.3	4845.4	615.3	294.1	185.9	126.3	111.8	110.1	108.2	108.2	108.2
47.5°	7711.1	5143.2	512.6	263.5	155.1	108.2	97.5	95.6	93.9	95.6	95.6
50°	8979.7	5688.2	458.3	232.8	128.1	92.0	83.1	83.1	83.1	83.1	84.8
52.5°	10908.8	6760.0	422.3	202.1	104.7	77.7	70.3	70.3	72.1	72.1	74.0
55°	13058.2	8182.1	389.9	171.4	88.5	64.9	57.8	59.6	61.4	63.2	63.2
57.5°	15389.8	9757.6	362.7	140.8	75.7	52.3	48.7	50.6	52.3	56.0	56.0
60°	18203.2	11462.9	323.0	110.1	63.2	41.5	37.9	41.5	46.9	50.6	52.3
62.5°	21292.6	13112.3	272.5	86.6	52.3	32.5	30.7	37.9	45.2	48.7	50.6
65°	23404.0	13630.3	209.3	70.3	39.7	23.4	25.2	34.2	43.3	48.7	48.7
67°	22548.6	12358.1	171.4	59.6	32.5	18.1	23.4	34.2	43.3	46.9	48.7
67.5°	21954.9	11860.0	164.2	57.8	30.7	18.1	23.4	34.2	43.3	48.7	48.7
70°	17863.9	8909.4	137.1	43.3	25.2	16.2	19.9	32.5	41.5	46.9	46.9
72.5°	12412.2	5493.2	122.7	30.7	21.6	14.5	18.1	30.7	39.7	45.2	46.9
75°	5901.1	1988.7	104.7	23.4	19.9	12.7	16.2	30.7	39.7	45.2	45.2
77.5°	1203.6	462.0	84.8	19.9	16.2	12.7	14.5	28.8	37.9	43.3	43.3
80°	395.3	178.7	63.2	18.1	16.2	12.7	14.5	27.0	37.9	41.5	43.3
82.5°	285.1	90.2	41.5	18.1	16.2	12.7	12.7	27.0	36.1	41.5	41.5
85°	218.4	63.2	27.0	18.1	16.2	12.7	12.7	25.2	34.2	39.7	39.7
87.5°	144.4	25.2	21.6	18.1	16.2	12.7	12.7	25.2	32.5	37.9	39.7
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)