

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: P193747

Luminaire Tested: **GAN-AF-09-LED-U-SL4-8030-800-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193747
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-09-LED-U-SL4-8030-800-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA 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: 28474 lumens
Efficiency: N/A
Efficacy: 76.1 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): 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

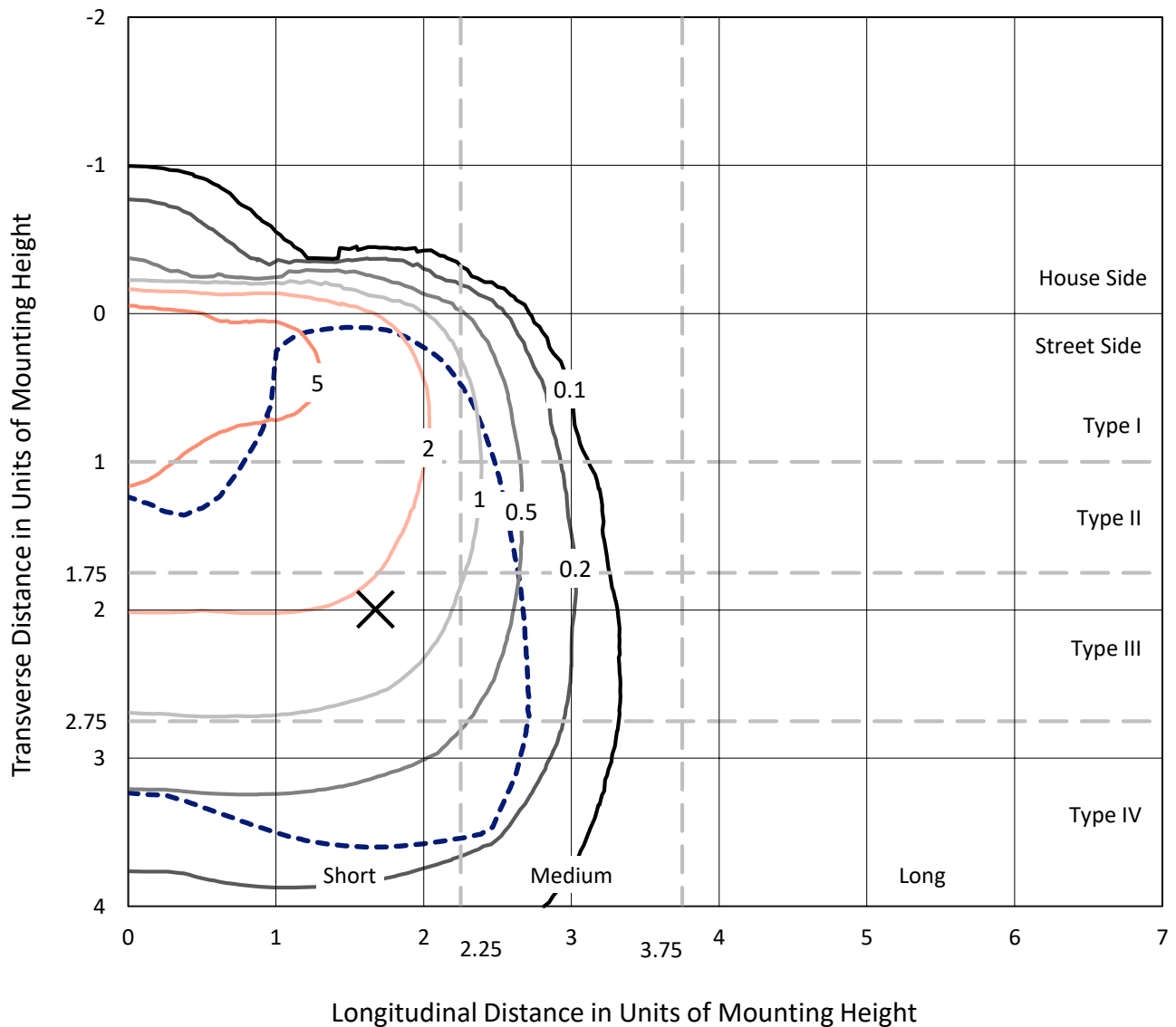


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

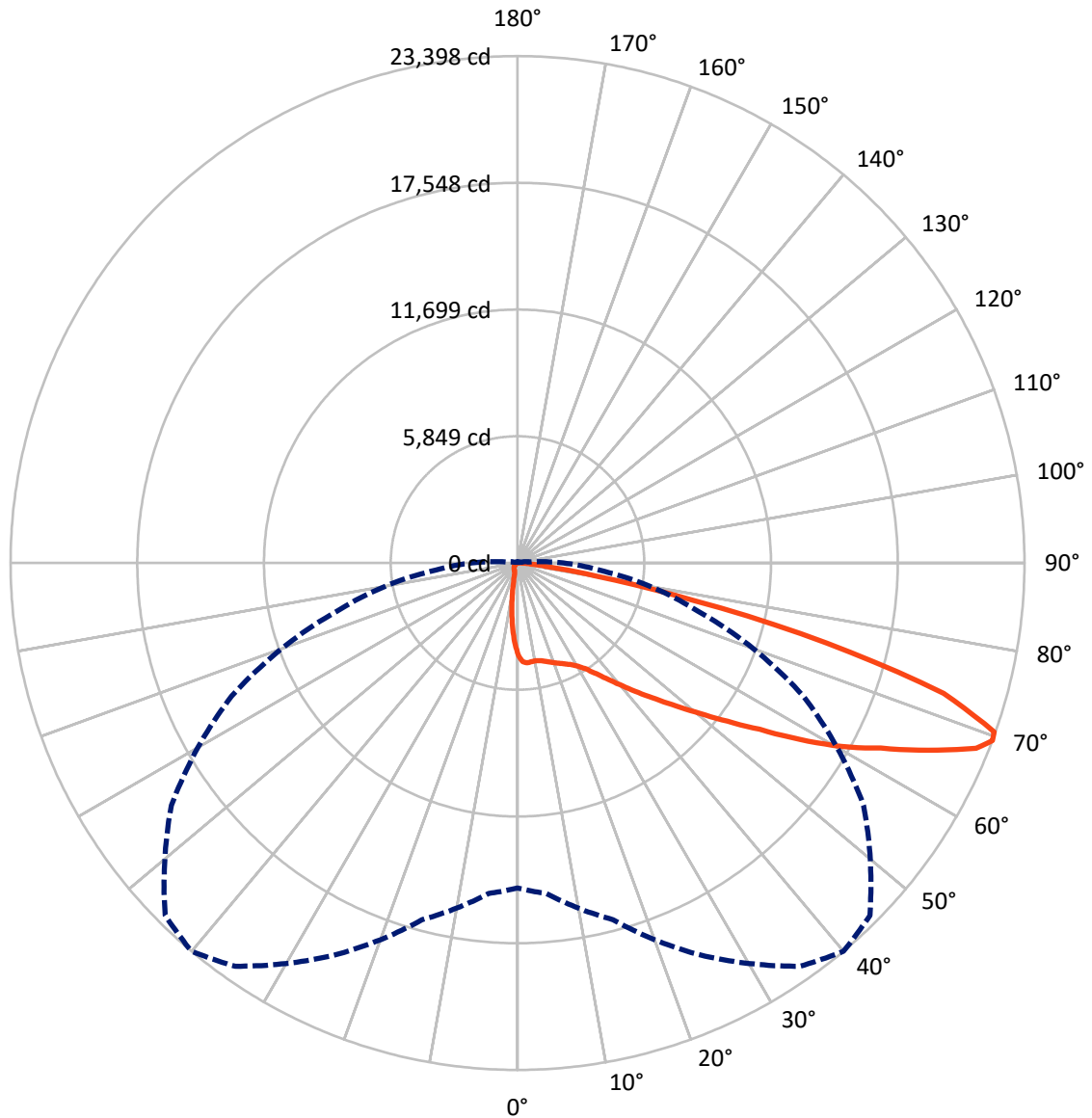


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Semi-Cutoff

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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	1665.9	0.0	1665.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	26808.1	0.0	26808.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	28474.0	0.0	28474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.9	1.2
10°-20°	848.2	3.0
20°-30°	1428.7	5.0
30°-40°	2338.9	8.2
40°-50°	4049.7	14.2
50°-60°	6378.7	22.4
60°-70°	8330.3	29.3
70°-80°	4290.5	15.1
80°-90°	464.1	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°	28474.0	100.0
0°-180°	28474.0	100.0

Coefficient of Utilization



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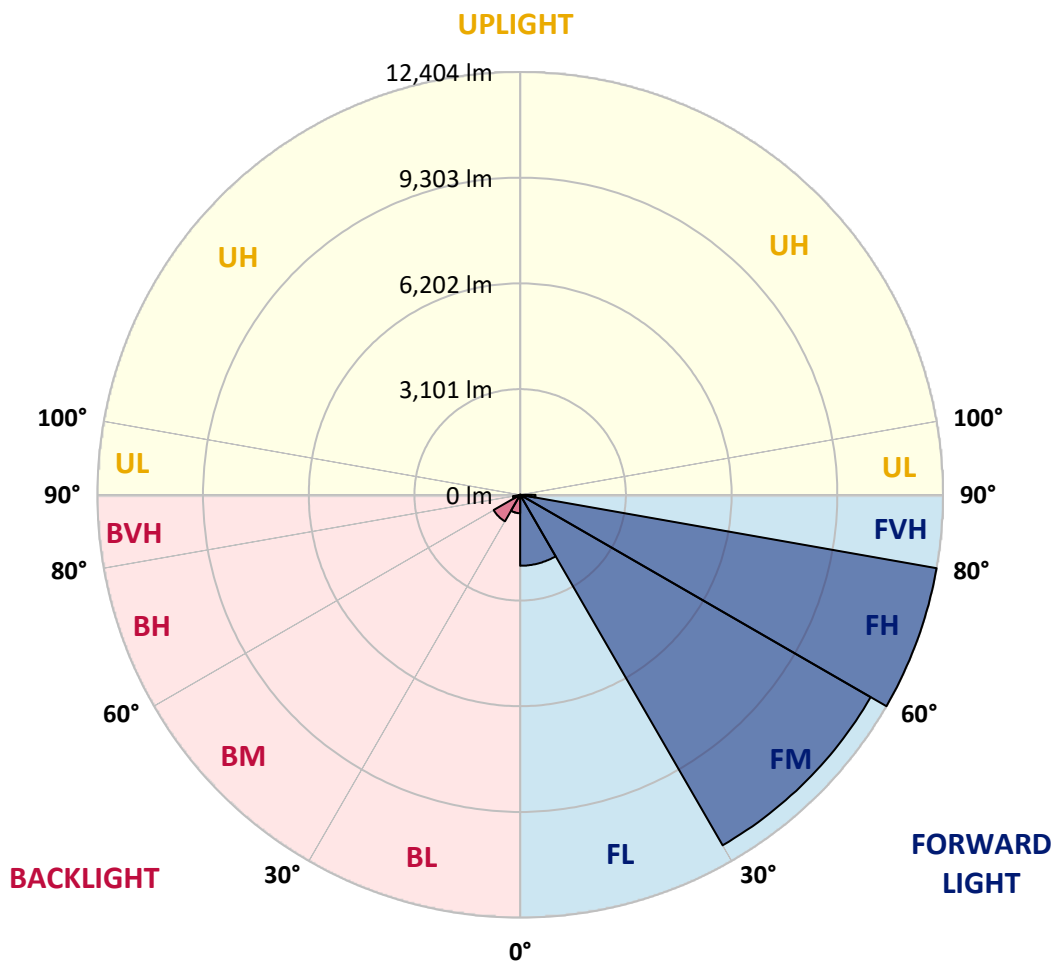
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2082.3	7.3			
FM	(30°-60°)	11871.9	41.7			
FH	(60°-80°)	12404.4	43.6			G5
FVH	(80°-90°)	449.5	1.6			G3/500
BL	(0°-30°)	539.6	1.9	B2/1000		
BM	(30°-60°)	895.4	3.1	B1/1000		
BH	(60°-80°)	216.3	0.8	B1/500		G1/500
BVH	(80°-90°)	14.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4254.2	4254.2	4254.2	4254.2	4254.2	4254.2	4254.2	4254.2	4254.2	4254.2	4254.2
2.5°	4671.1	4645.7	4630.4	4610.1	4584.7	4562.6	4554.2	4491.4	4432.1	4350.8	4257.6
5°	4757.5	4749.1	4722.0	4694.8	4664.3	4630.4	4611.8	4537.2	4452.5	4333.8	4171.1
7.5°	4766.0	4755.8	4722.0	4684.7	4642.3	4601.6	4569.4	4494.8	4416.9	4296.5	4098.2
10°	4752.5	4740.6	4715.2	4674.5	4622.0	4583.0	4550.8	4479.6	4413.5	4305.0	4084.7
12.5°	4737.2	4725.3	4713.5	4693.1	4647.4	4620.3	4593.1	4525.3	4466.0	4374.5	4133.8
15°	4752.5	4745.7	4759.2	4750.8	4725.3	4701.6	4674.5	4613.5	4559.2	4483.0	4223.7
17.5°	4816.9	4816.9	4859.2	4864.3	4840.6	4806.7	4767.7	4706.7	4660.9	4596.5	4330.4
20°	4967.7	4962.6	5016.9	5027.0	4969.4	4916.9	4859.2	4784.7	4749.1	4708.4	4435.5
22.5°	5227.0	5203.3	5235.5	5225.3	5111.8	5030.4	4959.2	4867.7	4849.1	4830.4	4552.5
25°	5564.3	5550.7	5572.8	5472.8	5272.8	5162.6	5077.9	4974.5	4974.5	4993.1	4684.7
27.5°	6054.1	6003.3	5928.7	5752.4	5452.4	5311.8	5220.2	5110.1	5138.9	5208.4	4859.2
30°	6555.8	6499.9	6328.7	6057.5	5671.1	5523.6	5416.9	5301.6	5369.4	5496.5	5093.1
32.5°	7050.7	6988.0	6745.6	6403.3	5984.6	5837.2	5733.8	5606.7	5720.2	5933.8	5435.5
35°	7530.4	7474.4	7194.8	6791.4	6401.6	6279.5	6184.6	6074.5	6220.2	6518.5	5918.5
37.5°	8069.3	8008.3	7667.7	7230.4	6908.4	6820.2	6750.7	6640.6	6894.8	7332.1	6591.4
40°	8732.0	8628.7	8169.3	7733.8	7494.8	7452.4	7405.0	7389.7	7784.6	8389.7	7488.0
42.5°	9491.4	9321.9	8694.8	8264.3	8138.8	8169.3	8157.5	8225.3	8898.1	9704.9	8579.5
45°	10250.7	10032.0	9279.5	8830.4	8847.3	8954.1	9020.2	9291.4	10293.0	11213.4	9754.1
47.5°	10894.7	10679.5	9840.5	9442.2	9645.6	9855.8	10035.4	10549.0	11726.9	12698.1	10667.6
50°	11445.6	11242.2	10435.4	10115.1	10572.7	10911.7	11203.2	11964.2	13269.3	13828.6	11308.3
52.5°	11896.4	11760.8	11052.3	10886.2	11632.0	12128.6	12555.7	13467.6	14635.3	14747.2	11806.6
55°	12335.4	12238.8	11715.0	11803.2	12876.0	13552.3	14093.0	15062.4	15811.6	15513.3	12284.5
57.5°	12840.5	12752.3	12471.0	12965.9	14511.6	15362.4	15952.3	16476.0	16847.2	16296.3	12735.4
60°	13355.7	13304.8	13311.6	14257.4	16389.5	17206.5	17531.9	17667.5	17864.1	17033.6	12760.8
62.5°	13847.2	13943.8	14272.6	15694.6	18187.8	18814.9	18979.3	19113.2	18882.7	17150.5	11789.6
65°	14679.4	14837.0	15621.8	17618.3	20165.7	20836.9	21006.4	20547.1	19043.7	15638.7	9589.7
67.5°	15086.2	15374.3	16774.3	19411.5	22084.4	22830.1	22767.4	20640.3	17089.5	11925.2	6154.1
69°	15001.4	15308.2	17040.4	19960.7	22721.6	23397.9	22999.6	19499.7	14559.1	8638.8	3777.9
70°	14665.8	14976.0	16903.1	19940.3	22803.0	23338.6	22569.1	18091.2	12310.0	6316.8	2362.7
72.5°	12247.2	12515.0	15006.5	18023.4	21006.4	20570.8	18881.0	12533.7	5998.2	1720.3	532.2
75°	7538.8	7688.0	10767.6	13577.7	15865.8	14747.2	12579.4	6235.5	1788.1	486.4	294.9
77.5°	3983.0	4050.8	5894.8	8003.2	10057.4	8321.9	6447.3	2432.2	823.7	305.1	213.6
80°	2354.2	2405.0	3174.5	3659.3	4352.5	3635.5	2577.9	1493.2	589.8	191.5	189.8
82.5°	1347.4	1379.6	2301.7	2033.9	1715.2	1464.4	1283.0	1415.2	354.2	128.8	196.6
85°	494.9	501.7	1294.9	1547.4	1020.3	606.8	637.3	1172.9	94.9	81.4	154.2
87.5°	230.5	225.4	666.1	947.4	596.6	384.7	496.6	257.6	37.3	52.5	42.4
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°	4254.2	4254.2	4254.2	4254.2	4254.2	4254.2	4254.2	4254.2	4254.2	4254.2	4254.2
2.5°	4203.3	4140.6	4027.0	3910.1	3791.5	3699.9	3610.1	3538.9	3515.2	3471.1	3474.5
5°	4074.5	3959.3	3722.0	3481.3	3230.5	3023.7	2828.8	2671.1	2594.9	2516.9	2516.9
7.5°	3962.6	3794.8	3423.7	3032.1	2627.1	2286.4	1979.6	1749.1	1622.0	1520.3	1518.6
10°	3920.3	3693.2	3174.5	2613.5	2049.1	1584.7	1220.3	986.4	866.1	788.1	784.7
12.5°	3938.9	3657.6	2983.0	2227.1	1518.6	1018.6	706.8	555.9	505.1	481.3	481.3
15°	3993.1	3647.4	2791.5	1849.1	1072.9	637.3	469.5	428.8	425.4	425.4	425.4
17.5°	4059.3	3650.8	2594.9	1481.3	730.5	455.9	405.1	400.0	403.4	403.4	403.4
20°	4127.0	3652.5	2383.0	1140.7	515.2	396.6	381.3	379.7	383.0	383.0	384.7
22.5°	4210.1	3661.0	2171.1	852.5	425.4	374.6	362.7	362.7	364.4	364.4	362.7
25°	4305.0	3677.9	1950.8	632.2	388.1	359.3	349.1	347.5	349.1	347.5	345.8
27.5°	4423.7	3701.6	1705.1	494.9	371.2	344.1	335.6	335.6	333.9	332.2	330.5
30°	4572.8	3728.7	1428.8	420.3	354.2	330.5	322.0	320.3	318.6	315.2	315.2
32.5°	4799.9	3788.1	1155.9	381.3	335.6	311.9	305.1	305.1	301.7	298.3	296.6
35°	5149.1	3905.0	911.8	357.6	315.2	291.5	283.0	283.0	279.7	278.0	276.3
37.5°	5632.1	4083.0	708.5	335.6	294.9	269.5	261.0	259.3	255.9	252.5	250.8
40°	6274.5	4303.3	557.6	315.2	274.6	247.5	240.7	237.3	230.5	225.4	225.4
42.5°	7081.2	4554.2	452.5	293.2	250.8	227.1	222.0	216.9	205.1	200.0	198.3
45°	7925.3	4779.6	383.0	267.8	227.1	206.8	203.4	194.9	179.7	174.6	174.6
47.5°	8533.7	4832.1	337.3	244.1	205.1	184.7	183.0	167.8	154.2	150.8	149.1
50°	8913.4	4728.7	300.0	220.3	184.7	164.4	159.3	140.7	132.2	128.8	127.1
52.5°	9169.3	4544.0	269.5	200.0	166.1	145.8	133.9	120.3	113.6	110.2	110.2
55°	9374.4	4283.0	239.0	181.4	150.8	130.5	113.6	103.4	96.6	93.2	93.2
57.5°	9432.0	3928.7	208.5	166.1	135.6	115.3	96.6	89.8	81.4	79.7	79.7
60°	9013.4	3289.8	184.7	147.5	122.0	100.0	84.7	76.3	67.8	66.1	64.4
62.5°	7910.0	2545.7	162.7	130.5	106.8	86.4	72.9	62.7	55.9	55.9	55.9
65°	6033.8	1706.7	142.4	113.6	93.2	72.9	62.7	50.8	47.5	47.5	49.2
67.5°	3611.8	928.8	122.0	96.6	79.7	61.0	52.5	44.1	42.4	44.1	44.1
69°	2116.9	545.8	110.2	86.4	69.5	54.2	45.8	39.0	42.4	44.1	44.1
70°	1306.8	367.8	101.7	78.0	62.7	49.2	42.4	37.3	40.7	42.4	42.4
72.5°	364.4	189.8	81.4	61.0	50.8	40.7	33.9	33.9	39.0	40.7	40.7
75°	237.3	140.7	62.7	45.8	39.0	32.2	28.8	32.2	37.3	39.0	39.0
77.5°	196.6	115.3	50.8	37.3	32.2	30.5	27.1	28.8	33.9	35.6	35.6
80°	179.7	81.4	40.7	33.9	28.8	27.1	25.4	23.7	30.5	32.2	32.2
82.5°	171.2	64.4	35.6	30.5	27.1	23.7	22.0	23.7	27.1	28.8	30.5
85°	106.8	42.4	32.2	28.8	23.7	22.0	22.0	22.0	25.4	27.1	27.1
87.5°	39.0	33.9	28.8	23.7	20.3	20.3	20.3	20.3	22.0	25.4	25.4
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)