

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: P192947

Luminaire Tested: **GAN-AF-09-LED-U-SL4-7030-800-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192947
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-SL4-7030-800-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 33748 lumens
Efficiency: N/A
Efficacy: 90.2 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): 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

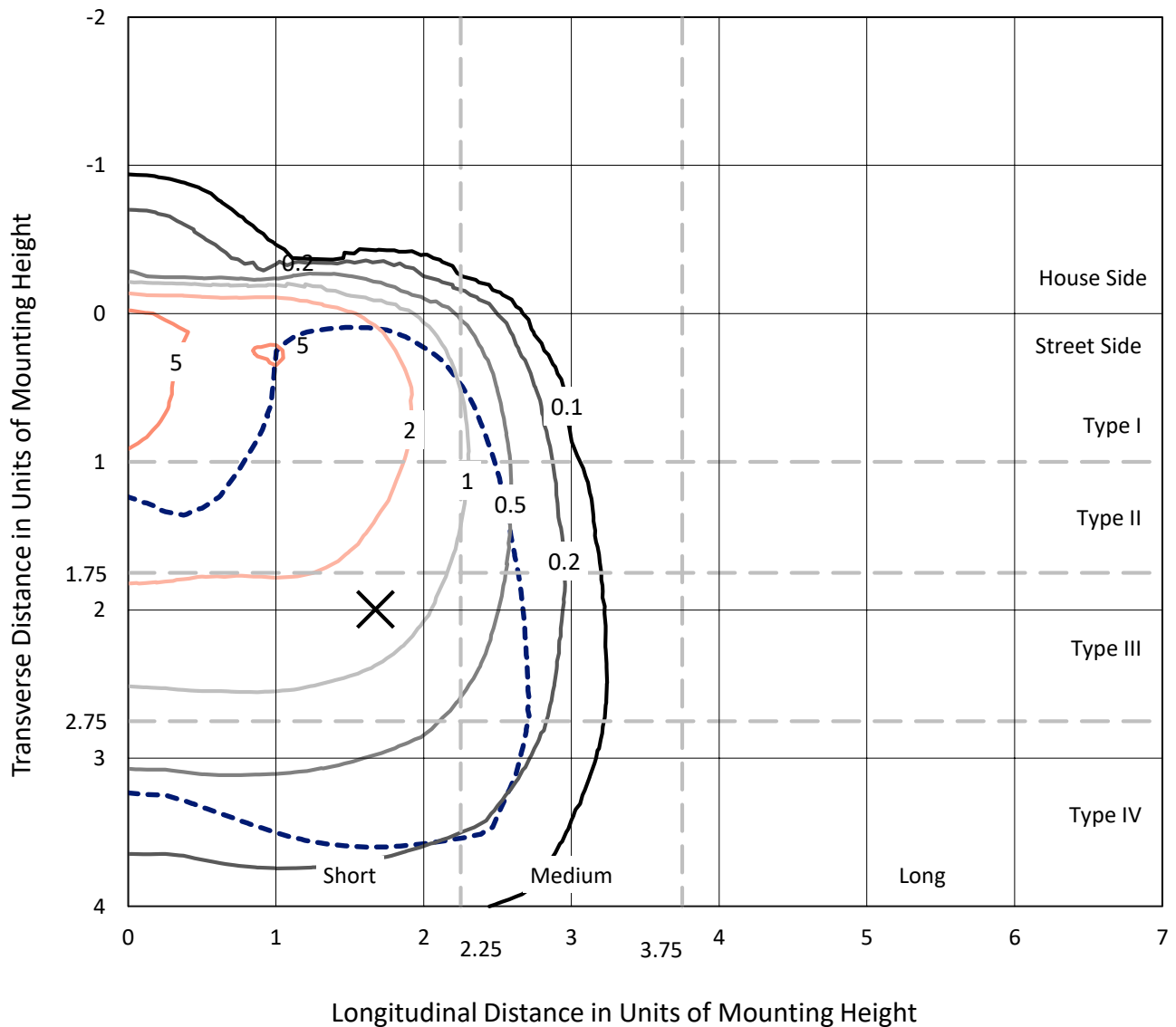


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

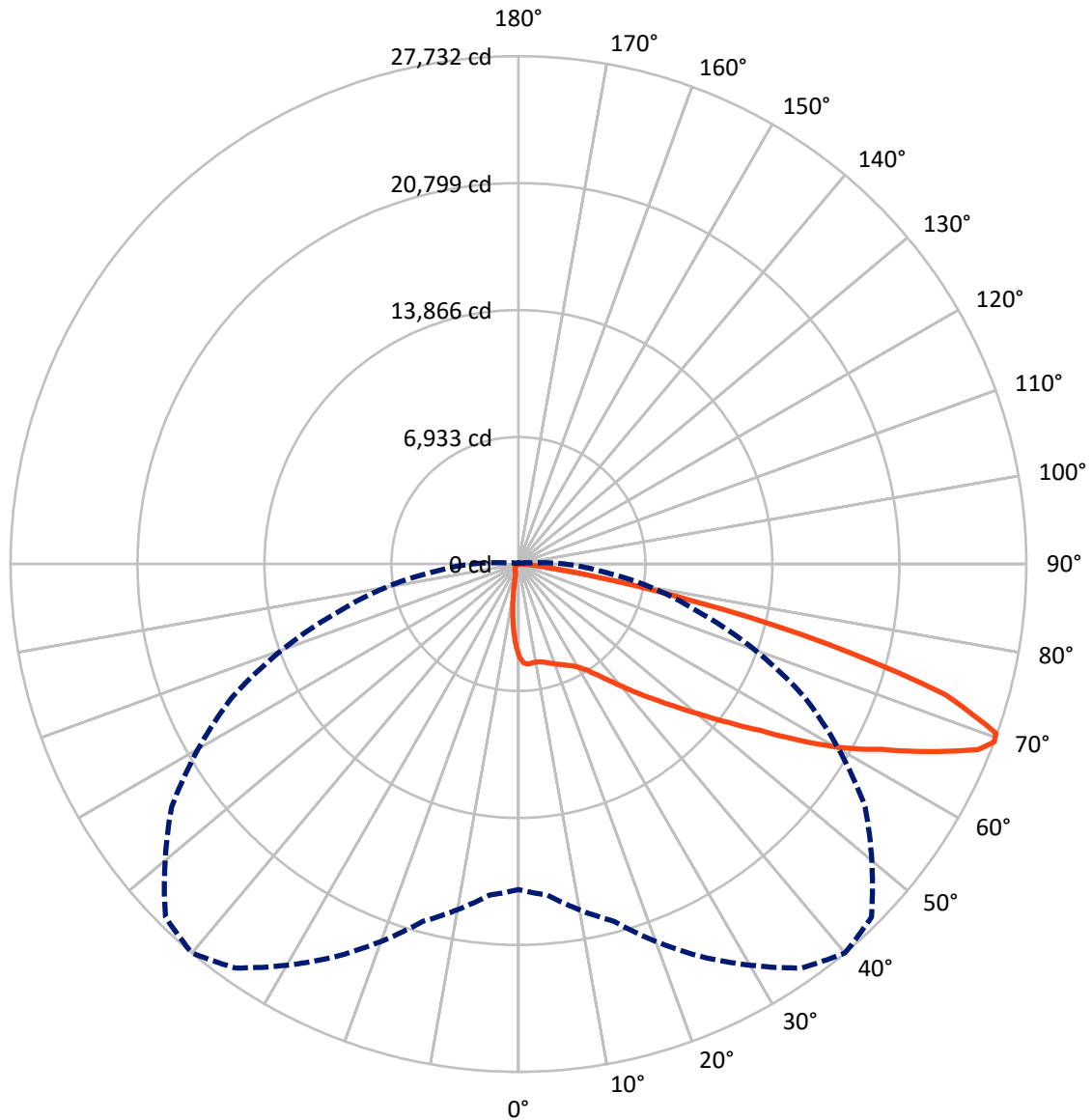


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Semi-Cutoff

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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	1974.4	0.0	1974.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	31773.5	0.0	31773.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	33748.0	0.0	33748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.8	1.2
10°-20°	1005.4	3.0
20°-30°	1693.4	5.0
30°-40°	2772.1	8.2
40°-50°	4799.8	14.2
50°-60°	7560.1	22.4
60°-70°	9873.2	29.3
70°-80°	5085.2	15.1
80°-90°	550.1	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°	33748.0	100.0
0°-180°	33748.0	100.0

Coefficient of Utilization



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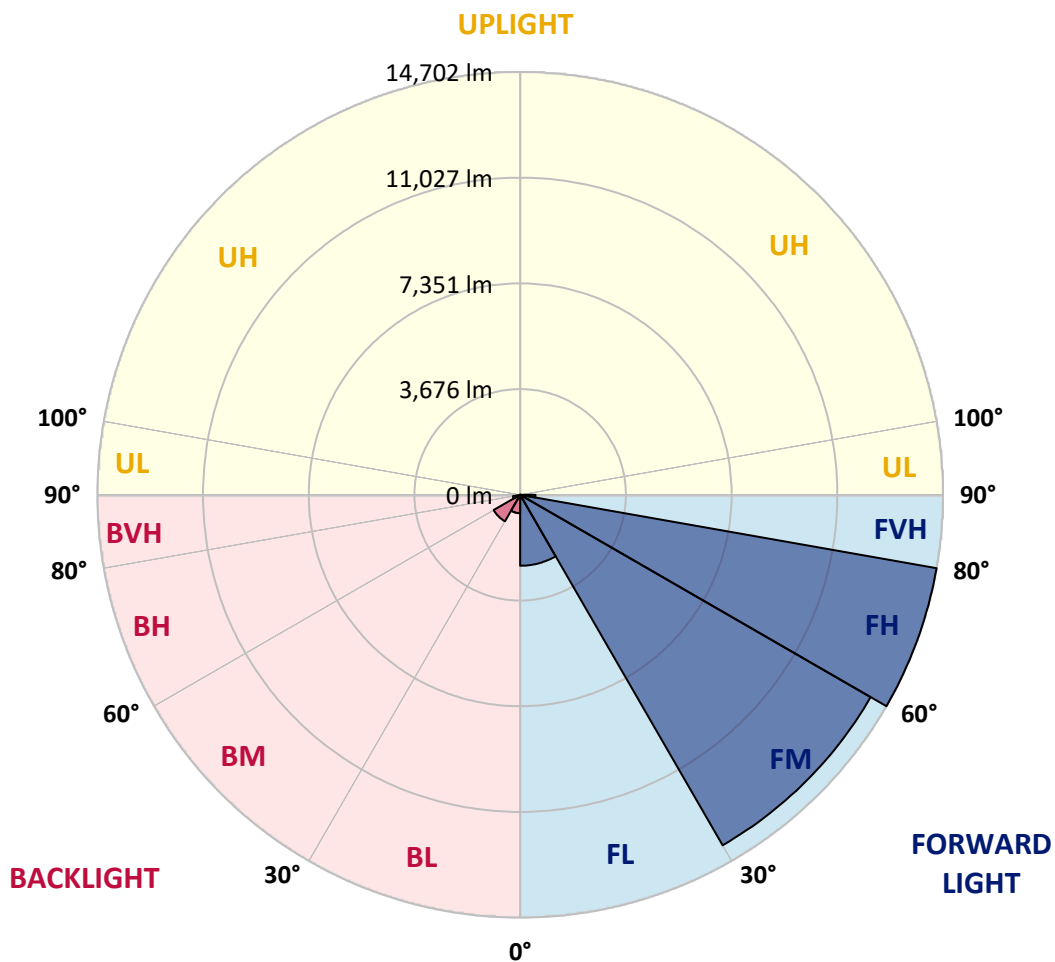
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2467.9	7.3			
FM	(30°-60°)	14070.8	41.7			
FH	(60°-80°)	14702.0	43.6			G5
FVH	(80°-90°)	532.8	1.6			G4/750
BL	(0°-30°)	639.6	1.9	B2/1000		
BM	(30°-60°)	1061.2	3.1	B2/2500		
BH	(60°-80°)	256.4	0.8	B1/500		G1/500
BVH	(80°-90°)	17.3	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°	5042.1	5042.1	5042.1	5042.1	5042.1	5042.1	5042.1	5042.1	5042.1	5042.1	5042.1
2.5°	5536.2	5506.1	5488.1	5463.9	5433.8	5407.7	5397.7	5323.3	5253.0	5156.6	5046.1
5°	5638.8	5628.7	5596.6	5564.5	5528.3	5488.1	5466.0	5377.6	5277.1	5136.5	4943.7
7.5°	5648.8	5636.6	5596.6	5552.3	5502.2	5453.9	5415.8	5327.4	5234.9	5092.3	4857.3
10°	5632.8	5618.6	5588.5	5540.3	5478.0	5431.9	5393.7	5309.4	5231.0	5102.4	4841.3
12.5°	5614.7	5600.6	5586.5	5562.4	5508.2	5476.1	5443.9	5363.5	5293.2	5184.8	4899.5
15°	5632.8	5624.6	5640.7	5630.6	5600.6	5572.4	5540.3	5468.0	5403.8	5313.3	5005.9
17.5°	5709.1	5709.1	5759.3	5765.3	5737.2	5697.0	5650.8	5578.4	5524.2	5447.8	5132.6
20°	5887.9	5881.9	5946.1	5958.1	5889.8	5827.6	5759.3	5670.9	5628.7	5580.5	5257.1
22.5°	6195.2	6167.0	6205.3	6193.2	6058.5	5962.2	5877.8	5769.3	5747.2	5725.0	5395.7
25°	6594.9	6578.8	6604.9	6486.5	6249.4	6118.8	6018.4	5895.8	5895.8	5917.9	5552.3
27.5°	7175.5	7115.2	7026.8	6817.9	6462.3	6295.6	6187.2	6056.6	6090.7	6173.0	5759.3
30°	7770.1	7703.8	7500.8	7179.5	6721.5	6546.7	6420.2	6283.6	6364.0	6514.6	6036.5
32.5°	8356.7	8282.3	7995.0	7589.2	7093.1	6918.4	6795.8	6645.1	6779.7	7032.9	6442.3
35°	8925.2	8858.8	8527.4	8049.3	7587.3	7442.6	7330.2	7199.6	7372.4	7725.9	7014.8
37.5°	9564.0	9491.7	9087.8	8569.6	8187.9	8083.4	8001.0	7870.5	8171.8	8690.2	7812.2
40°	10349.4	10226.8	9682.4	9166.2	8883.0	8832.7	8776.5	8758.4	9226.5	9943.6	8874.9
42.5°	11249.4	11048.6	10305.3	9795.0	9646.3	9682.4	9668.5	9748.7	10546.2	11502.5	10168.6
45°	12149.3	11890.1	10998.2	10466.0	10486.0	10612.6	10690.9	11012.4	12199.6	13290.3	11560.7
47.5°	12912.7	12657.5	11663.2	11191.1	11432.2	11681.2	11894.2	12502.9	13899.0	15050.0	12643.5
50°	13565.5	13324.5	12368.2	11988.6	12531.0	12932.8	13278.3	14180.2	15727.0	16389.9	13402.9
52.5°	14099.9	13939.2	13099.5	12902.7	13786.5	14375.1	14881.3	15962.0	17346.1	17478.8	13993.4
55°	14620.2	14505.7	13884.8	13989.3	15261.0	16062.5	16703.3	17852.3	18740.2	18386.7	14559.9
57.5°	15218.8	15114.3	14780.8	15367.5	17199.5	18207.9	18907.0	19527.7	19967.5	19314.8	15094.2
60°	15829.5	15769.2	15777.2	16898.1	19425.2	20393.5	20779.2	20939.9	21173.0	20188.6	15124.3
62.5°	16412.1	16526.5	16916.2	18601.6	21556.7	22299.9	22494.8	22653.4	22380.2	20327.2	13973.2
65°	17398.3	17585.2	18515.3	20881.6	23900.9	24696.4	24897.2	24352.9	22571.0	18535.3	11365.9
67.5°	17880.5	18221.9	19881.3	23006.9	26174.8	27058.7	26984.5	24463.3	20254.9	14134.0	7294.0
69°	17780.0	18143.6	20196.6	23657.8	26930.2	27731.6	27259.6	23111.4	17255.8	10238.9	4477.7
70°	17382.3	17749.9	20033.9	23633.7	27026.6	27661.3	26749.4	21442.1	14590.1	7486.9	2800.4
72.5°	14515.7	14833.0	17786.1	21361.8	24897.2	24380.9	22378.2	14855.2	7109.2	2039.0	630.8
75°	8935.2	9112.0	12762.0	16092.6	18804.5	17478.8	14909.4	7390.4	2119.3	576.6	349.5
77.5°	4720.8	4801.1	6986.7	9485.7	11920.3	9863.3	7641.5	2882.7	976.2	361.5	253.2
80°	2790.3	2850.5	3762.6	4337.0	5158.6	4308.8	3055.4	1769.8	699.0	227.0	225.0
82.5°	1597.1	1635.2	2727.9	2410.6	2032.9	1735.6	1520.7	1677.3	419.9	152.6	233.0
85°	586.6	594.6	1534.8	1834.0	1209.3	719.2	755.3	1390.1	112.5	96.4	182.8
87.5°	273.1	267.1	789.5	1122.9	707.1	456.0	588.6	305.4	44.1	62.3	50.3
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°	5042.1	5042.1	5042.1	5042.1	5042.1	5042.1	5042.1	5042.1	5042.1	5042.1	5042.1
2.5°	4981.9	4907.5	4773.0	4634.3	4493.8	4385.2	4278.8	4194.4	4166.3	4114.0	4118.1
5°	4829.2	4692.5	4411.4	4126.0	3828.8	3583.7	3352.7	3165.9	3075.5	2983.1	2983.1
7.5°	4696.6	4497.7	4057.8	3593.7	3113.7	2709.8	2346.4	2073.0	1922.4	1801.9	1799.9
10°	4646.4	4377.3	3762.6	3097.6	2428.7	1878.2	1446.4	1169.2	1026.5	934.0	930.2
12.5°	4668.5	4335.0	3535.5	2639.6	1799.9	1207.4	837.7	659.0	598.6	570.6	570.6
15°	4732.8	4323.0	3308.5	2191.6	1271.6	755.3	556.4	508.3	504.2	504.2	504.2
17.5°	4811.1	4327.0	3075.5	1755.7	865.8	540.4	480.0	474.0	478.1	478.1	478.1
20°	4891.4	4329.0	2824.4	1352.0	610.6	470.1	452.0	449.9	454.0	454.0	456.0
22.5°	4989.9	4339.0	2573.3	1010.4	504.2	443.9	429.9	429.9	431.9	431.9	429.9
25°	5102.4	4359.1	2312.2	749.3	460.0	425.9	413.8	411.8	413.8	411.8	409.8
27.5°	5243.1	4387.3	2020.9	586.6	439.9	407.7	397.7	397.7	395.7	393.8	391.7
30°	5419.8	4419.4	1693.4	498.2	419.9	391.7	381.7	379.6	377.7	373.6	373.6
32.5°	5688.9	4489.7	1370.0	452.0	397.7	369.7	361.5	361.5	357.6	353.6	351.6
35°	6102.7	4628.3	1080.8	423.8	373.6	345.5	335.4	335.4	331.5	329.4	327.4
37.5°	6675.3	4839.2	839.6	397.7	349.5	319.4	309.3	307.3	303.3	299.3	297.3
40°	7436.6	5100.3	660.9	373.6	325.4	293.3	285.2	281.3	273.1	267.1	267.1
42.5°	8392.9	5397.7	536.4	347.6	297.3	269.3	263.2	257.1	243.1	237.1	235.0
45°	9393.2	5664.9	454.0	317.4	269.3	245.1	241.0	231.0	212.9	206.9	206.9
47.5°	10114.3	5727.2	399.8	289.3	243.1	218.9	217.0	198.9	182.8	178.7	176.8
50°	10564.4	5604.6	355.5	261.1	218.9	194.8	188.8	166.7	156.7	152.6	150.7
52.5°	10867.7	5385.6	319.4	237.1	196.8	172.7	158.7	142.6	134.6	130.6	130.6
55°	11110.8	5076.3	283.2	214.9	178.7	154.7	134.6	122.6	114.5	110.5	110.5
57.5°	11179.1	4656.4	247.0	196.8	160.7	136.6	114.5	106.4	96.4	94.4	94.4
60°	10682.9	3899.1	218.9	174.9	144.7	118.5	100.4	90.3	80.3	78.3	76.4
62.5°	9375.1	3017.2	192.9	154.7	126.5	102.4	86.5	74.3	66.3	66.3	66.3
65°	7151.3	2022.8	168.7	134.6	110.5	86.5	74.3	60.3	56.3	56.3	58.2
67.5°	4280.8	1100.8	144.7	114.5	94.4	72.3	62.3	52.2	50.3	52.2	52.2
69°	2509.0	646.9	130.6	102.4	82.4	64.3	54.2	46.2	50.3	52.2	52.2
70°	1548.7	436.0	120.5	92.5	74.3	58.2	50.3	44.1	48.2	50.3	50.3
72.5°	431.9	225.0	96.4	72.3	60.3	48.2	40.2	40.2	46.2	48.2	48.2
75°	281.3	166.7	74.3	54.2	46.2	38.1	34.2	38.1	44.1	46.2	46.2
77.5°	233.0	136.6	60.3	44.1	38.1	36.2	32.1	34.2	40.2	42.2	42.2
80°	212.9	96.4	48.2	40.2	34.2	32.1	30.1	28.1	36.2	38.1	38.1
82.5°	202.9	76.4	42.2	36.2	32.1	28.1	26.1	28.1	32.1	34.2	36.2
85°	126.5	50.3	38.1	34.2	28.1	26.1	26.1	26.1	30.1	32.1	32.1
87.5°	46.2	40.2	34.2	28.1	24.1	24.1	24.1	24.1	26.1	30.1	30.1
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)