

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: P301825

Luminaire Tested: **GAA-AF-05-LED-U-SL4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301825
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: GAA-AF-05-LED-U-SL4-7030-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI
3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV w/Spill
Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21220.8 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

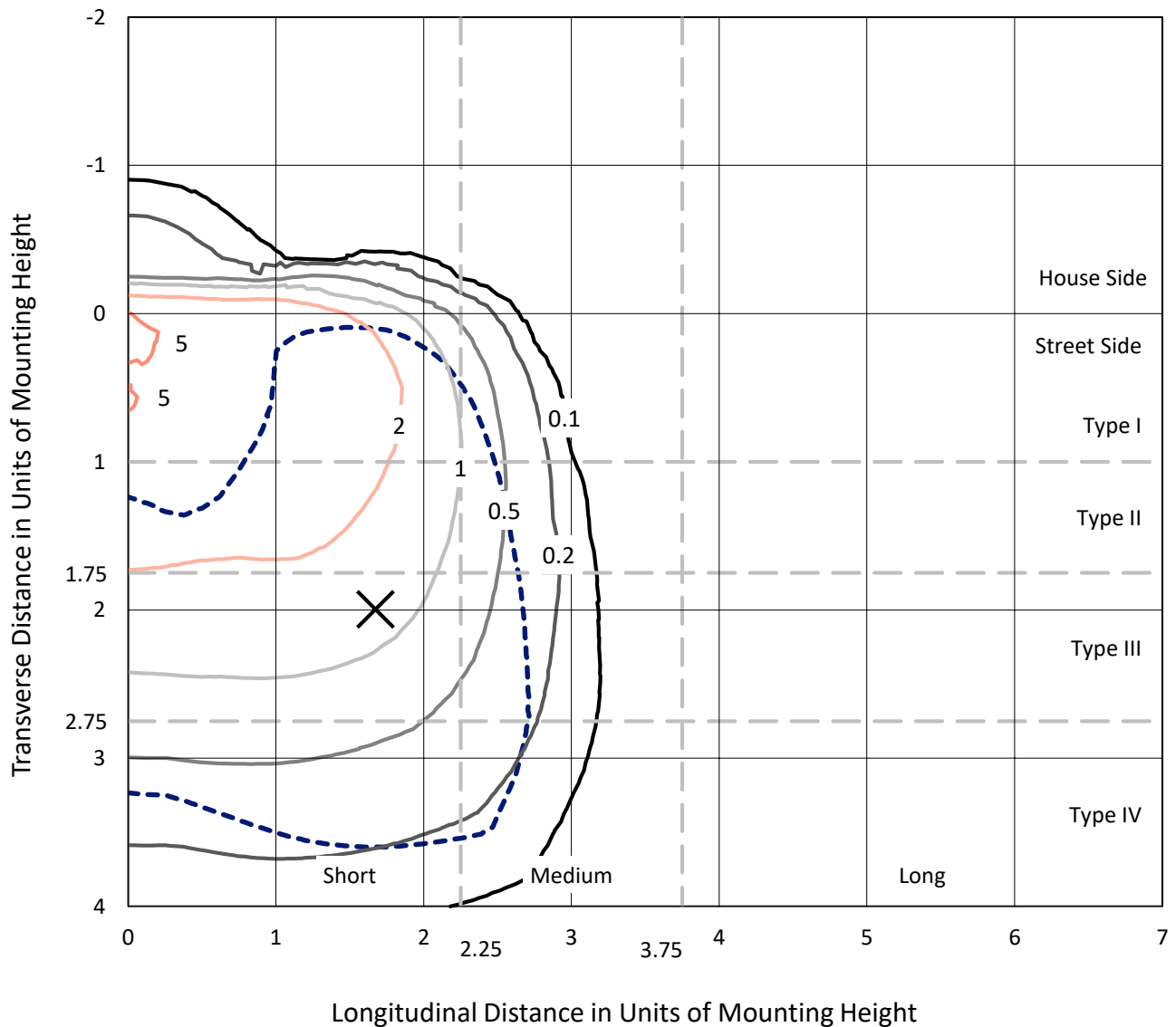
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

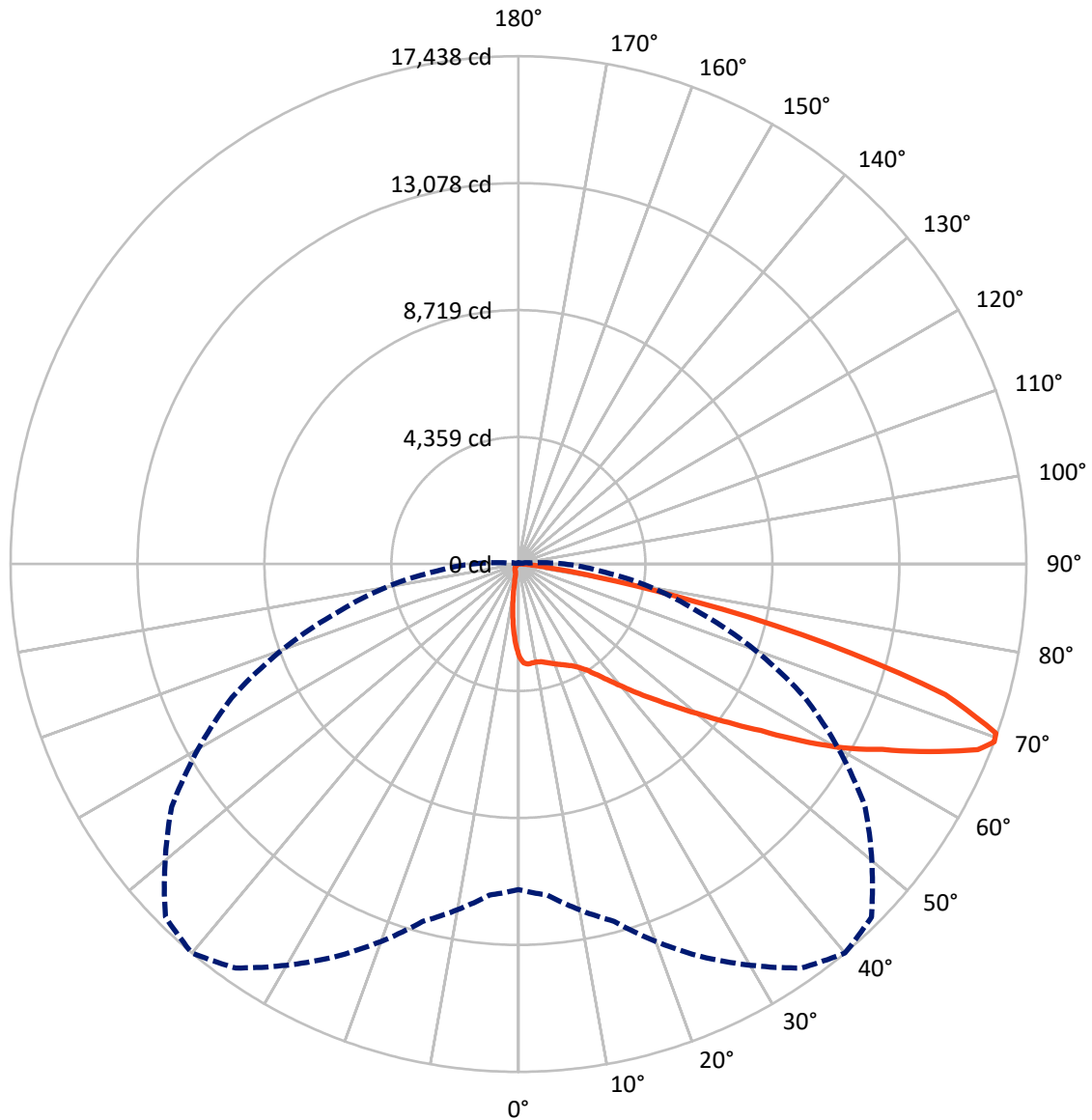
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	1241.5	0.0	1241.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	19979.2	0.0	19979.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	21220.8	0.0	21220.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.1	1.2
10°-20°	632.2	3.0
20°-30°	1064.8	5.0
30°-40°	1743.1	8.2
40°-50°	3018.1	14.2
50°-60°	4753.8	22.4
60°-70°	6208.3	29.3
70°-80°	3197.6	15.1
80°-90°	345.9	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°	21220.8	100.0
0°-180°	21220.8	100.0

Coefficient of Utilization



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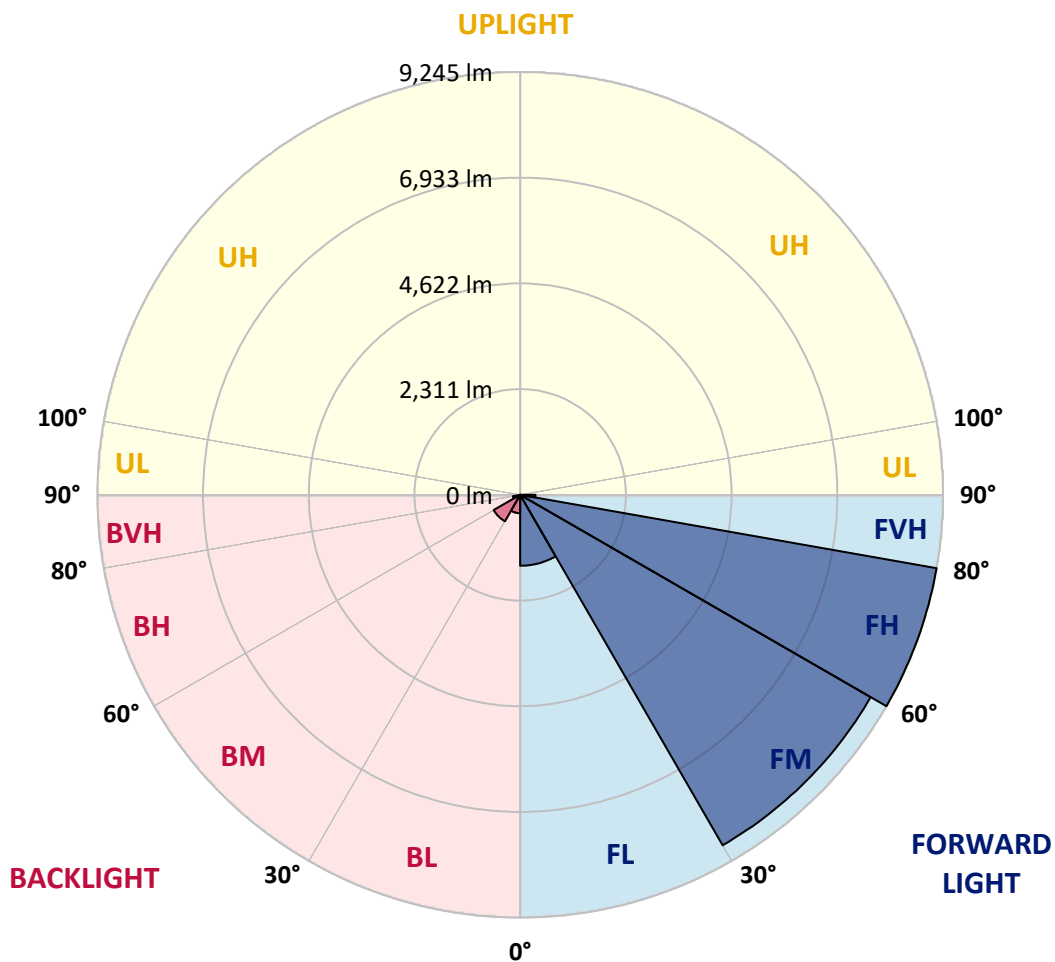
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1551.8	7.3			
FM	(30°-60°)	8847.7	41.7			
FH	(60°-80°)	9244.6	43.6			G4/12000
FVH	(80°-90°)	335.0	1.6			G3/500
BL	(0°-30°)	402.2	1.9	B1/500		
BM	(30°-60°)	667.3	3.1	B1/1000		
BH	(60°-80°)	161.2	0.8	B1/500		G1/500
BVH	(80°-90°)	10.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3170.5	3170.5	3170.5	3170.5	3170.5	3170.5	3170.5	3170.5	3170.5	3170.5	3170.5
2.5°	3481.2	3462.3	3450.9	3435.8	3416.8	3400.4	3394.1	3347.3	3303.1	3242.5	3173.0
5°	3545.6	3539.3	3519.1	3498.9	3476.2	3450.9	3437.0	3381.4	3318.3	3229.9	3108.6
7.5°	3552.0	3544.4	3519.1	3491.3	3459.8	3429.4	3405.4	3349.9	3291.8	3202.1	3054.3
10°	3541.9	3533.0	3514.1	3483.8	3444.6	3415.5	3391.5	3338.5	3289.2	3208.4	3044.2
12.5°	3530.5	3521.6	3512.8	3497.6	3463.5	3443.3	3423.1	3372.6	3328.4	3260.2	3080.8
15°	3541.9	3536.8	3546.9	3540.6	3521.6	3504.0	3483.8	3438.3	3397.9	3341.0	3147.8
17.5°	3589.9	3589.9	3621.4	3625.2	3607.5	3582.3	3553.2	3507.8	3473.6	3425.6	3227.3
20°	3702.3	3698.5	3738.9	3746.5	3703.5	3664.4	3621.4	3565.9	3539.3	3509.0	3305.6
22.5°	3895.5	3877.9	3901.9	3894.3	3809.6	3749.0	3696.0	3627.7	3613.9	3600.0	3392.8
25°	4146.9	4136.8	4153.2	4078.7	3929.6	3847.5	3784.4	3707.3	3707.3	3721.2	3491.3
27.5°	4512.0	4474.1	4418.5	4287.1	4063.5	3958.7	3890.5	3808.4	3829.9	3881.6	3621.4
30°	4885.8	4844.2	4716.6	4514.5	4226.5	4116.6	4037.0	3951.1	4001.6	4096.4	3795.7
32.5°	5254.7	5207.9	5027.3	4772.2	4460.2	4350.3	4273.2	4178.5	4263.1	4422.3	4050.9
35°	5612.1	5570.5	5362.0	5061.4	4770.9	4679.9	4609.2	4527.1	4635.7	4858.1	4410.9
37.5°	6013.8	5968.4	5714.5	5388.6	5148.6	5082.9	5031.1	4949.0	5138.5	5464.4	4912.4
40°	6507.7	6430.7	6088.4	5763.7	5585.6	5554.0	5518.7	5507.3	5801.6	6252.6	5580.6
42.5°	7073.6	6947.3	6479.9	6159.1	6065.6	6088.4	6079.5	6130.0	6631.5	7232.8	6394.0
45°	7639.5	7476.5	6915.7	6581.0	6593.6	6673.2	6722.5	6924.6	7671.1	8357.0	7269.4
47.5°	8119.5	7959.1	7333.8	7037.0	7188.6	7345.2	7479.1	7861.8	8739.7	9463.5	7950.2
50°	8530.0	8378.4	7777.2	7538.4	7879.5	8132.1	8349.4	8916.5	9889.2	10306.0	8427.7
52.5°	8866.0	8765.0	8237.0	8113.2	8669.0	9039.1	9357.4	10036.9	10907.2	10990.6	8799.1
55°	9193.2	9121.2	8730.9	8796.5	9596.1	10100.1	10503.0	11225.6	11783.9	11561.6	9155.3
57.5°	9569.6	9503.9	9294.2	9663.1	10815.0	11449.1	11888.7	12279.0	12555.7	12145.1	9491.3
60°	9953.6	9915.7	9920.7	10625.6	12214.6	12823.4	13066.0	13167.0	13313.5	12694.6	9510.2
62.5°	10319.9	10391.9	10636.9	11696.7	13554.8	14022.2	14144.7	14244.5	14072.7	12781.8	8786.4
65°	10940.1	11057.6	11642.4	13130.4	15028.9	15529.1	15655.4	15313.1	14192.7	11655.0	7146.9
67.5°	11243.2	11458.0	12501.3	14466.8	16458.8	17014.6	16967.8	15382.6	12736.3	8887.5	4586.5
69°	11180.1	11408.7	12699.7	14876.0	16933.7	17437.7	17140.9	14532.5	10850.4	6438.2	2815.5
70°	10930.0	11161.1	12597.3	14860.9	16994.3	17393.5	16820.0	13482.8	9174.2	4707.7	1760.8
72.5°	9127.5	9327.1	11183.9	13432.3	15655.4	15330.8	14071.4	9341.0	4470.3	1282.1	396.6
75°	5618.5	5729.6	8024.8	10119.0	11824.3	10990.6	9375.1	4647.1	1332.6	362.5	219.8
77.5°	2968.4	3018.9	4393.2	5964.6	7495.5	6202.0	4805.0	1812.6	613.9	227.4	159.2
80°	1754.5	1792.4	2365.9	2727.1	3243.8	2709.4	1921.2	1112.8	439.6	142.7	141.5
82.5°	1004.2	1028.2	1715.3	1515.8	1278.3	1091.4	956.2	1054.7	264.0	96.0	146.5
85°	368.8	373.9	965.0	1153.3	760.4	452.2	474.9	874.1	70.7	60.6	114.9
87.5°	171.8	168.0	496.4	706.1	444.6	286.7	370.1	192.0	27.8	39.2	31.6
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°	3170.5	3170.5	3170.5	3170.5	3170.5	3170.5	3170.5	3170.5	3170.5	3170.5	3170.5
2.5°	3132.6	3085.9	3001.2	2914.1	2825.7	2757.4	2690.5	2637.4	2619.8	2586.9	2589.4
5°	3036.6	2950.7	2773.9	2594.5	2407.6	2253.4	2108.2	1990.7	1933.9	1875.8	1875.8
7.5°	2953.2	2828.2	2551.6	2259.8	1957.9	1704.0	1475.4	1303.6	1208.8	1133.0	1131.8
10°	2921.7	2752.4	2365.9	1947.8	1527.1	1181.0	909.5	735.1	645.5	587.4	584.8
12.5°	2935.5	2725.9	2223.1	1659.8	1131.8	759.1	526.7	414.3	376.4	358.7	358.7
15°	2976.0	2718.3	2080.4	1378.1	799.6	474.9	349.9	319.6	317.0	317.0	317.0
17.5°	3025.2	2720.8	1933.9	1104.0	544.4	339.8	301.9	298.1	300.6	300.6	300.6
20°	3075.8	2722.1	1776.0	850.1	384.0	295.6	284.2	282.9	285.5	285.5	286.7
22.5°	3137.6	2728.4	1618.1	635.4	317.0	279.2	270.3	270.3	271.6	271.6	270.3
25°	3208.4	2741.0	1453.9	471.2	289.3	267.8	260.2	258.9	260.2	258.9	257.7
27.5°	3296.8	2758.7	1270.7	368.8	276.6	256.4	250.1	250.1	248.8	247.6	246.3
30°	3408.0	2778.9	1064.8	313.3	264.0	246.3	240.0	238.7	237.5	234.9	234.9
32.5°	3577.2	2823.1	861.5	284.2	250.1	232.4	227.4	227.4	224.8	222.3	221.1
35°	3837.4	2910.3	679.6	266.5	234.9	217.3	210.9	210.9	208.4	207.2	205.9
37.5°	4197.4	3042.9	528.0	250.1	219.8	200.8	194.5	193.3	190.7	188.2	186.9
40°	4676.2	3207.1	415.6	234.9	204.6	184.4	179.4	176.8	171.8	168.0	168.0
42.5°	5277.4	3394.1	337.3	218.5	186.9	169.3	165.5	161.7	152.8	149.1	147.8
45°	5906.5	3562.1	285.5	199.6	169.3	154.1	151.6	145.3	133.9	130.1	130.1
47.5°	6359.9	3601.2	251.4	181.9	152.8	137.7	136.4	125.1	114.9	112.4	111.2
50°	6642.9	3524.2	223.6	164.2	137.7	122.5	118.7	104.8	98.5	96.0	94.7
52.5°	6833.6	3386.5	200.8	149.1	123.8	108.6	99.8	89.7	84.6	82.1	82.1
55°	6986.4	3192.0	178.1	135.2	112.4	97.3	84.6	77.1	72.0	69.5	69.5
57.5°	7029.4	2928.0	155.4	123.8	101.1	85.9	72.0	66.9	60.6	59.4	59.4
60°	6717.4	2451.8	137.7	109.9	90.9	74.5	63.2	56.8	50.5	49.3	48.0
62.5°	5895.1	1897.2	121.3	97.3	79.6	64.4	54.3	46.7	41.7	41.7	41.7
65°	4496.8	1272.0	106.1	84.6	69.5	54.3	46.7	37.9	35.4	35.4	36.6
67.5°	2691.8	692.2	90.9	72.0	59.4	45.5	39.2	32.8	31.6	32.8	32.8
69°	1577.7	406.7	82.1	64.4	51.8	40.4	34.1	29.1	31.6	32.8	32.8
70°	973.9	274.1	75.8	58.1	46.7	36.6	31.6	27.8	30.3	31.6	31.6
72.5°	271.6	141.5	60.6	45.5	37.9	30.3	25.3	25.3	29.1	30.3	30.3
75°	176.8	104.8	46.7	34.1	29.1	24.0	21.5	24.0	27.8	29.1	29.1
77.5°	146.5	85.9	37.9	27.8	24.0	22.7	20.2	21.5	25.3	26.5	26.5
80°	133.9	60.6	30.3	25.3	21.5	20.2	18.9	17.7	22.7	24.0	24.0
82.5°	127.6	48.0	26.5	22.7	20.2	17.7	16.4	17.7	20.2	21.5	22.7
85°	79.6	31.6	24.0	21.5	17.7	16.4	16.4	16.4	18.9	20.2	20.2
87.5°	29.1	25.3	21.5	17.7	15.2	15.2	15.2	15.2	16.4	18.9	18.9
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)