

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: P266926

Luminaire Tested: **GAN-AF-05-LED-U-SL4-7027-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266926
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-05-LED-U-SL4-7027-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA 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: 23011.8 lumens
Efficiency: N/A
Efficacy: 71.9 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): 320
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

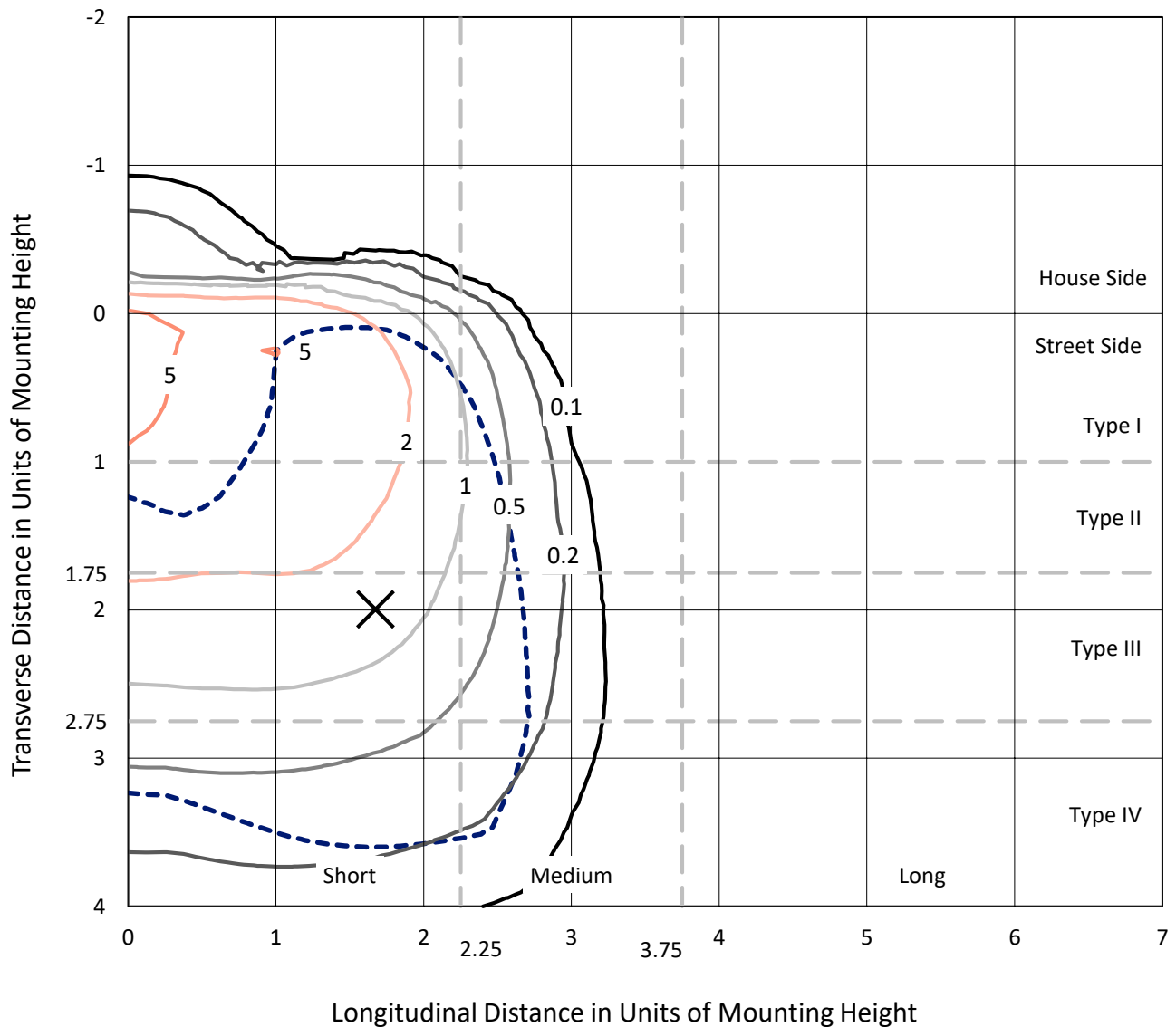


REPORT NUMBER: P266926

CATALOG NUMBER: GAN-AF-05-LED-U-SL4-7027-1200-HSS-ADJ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

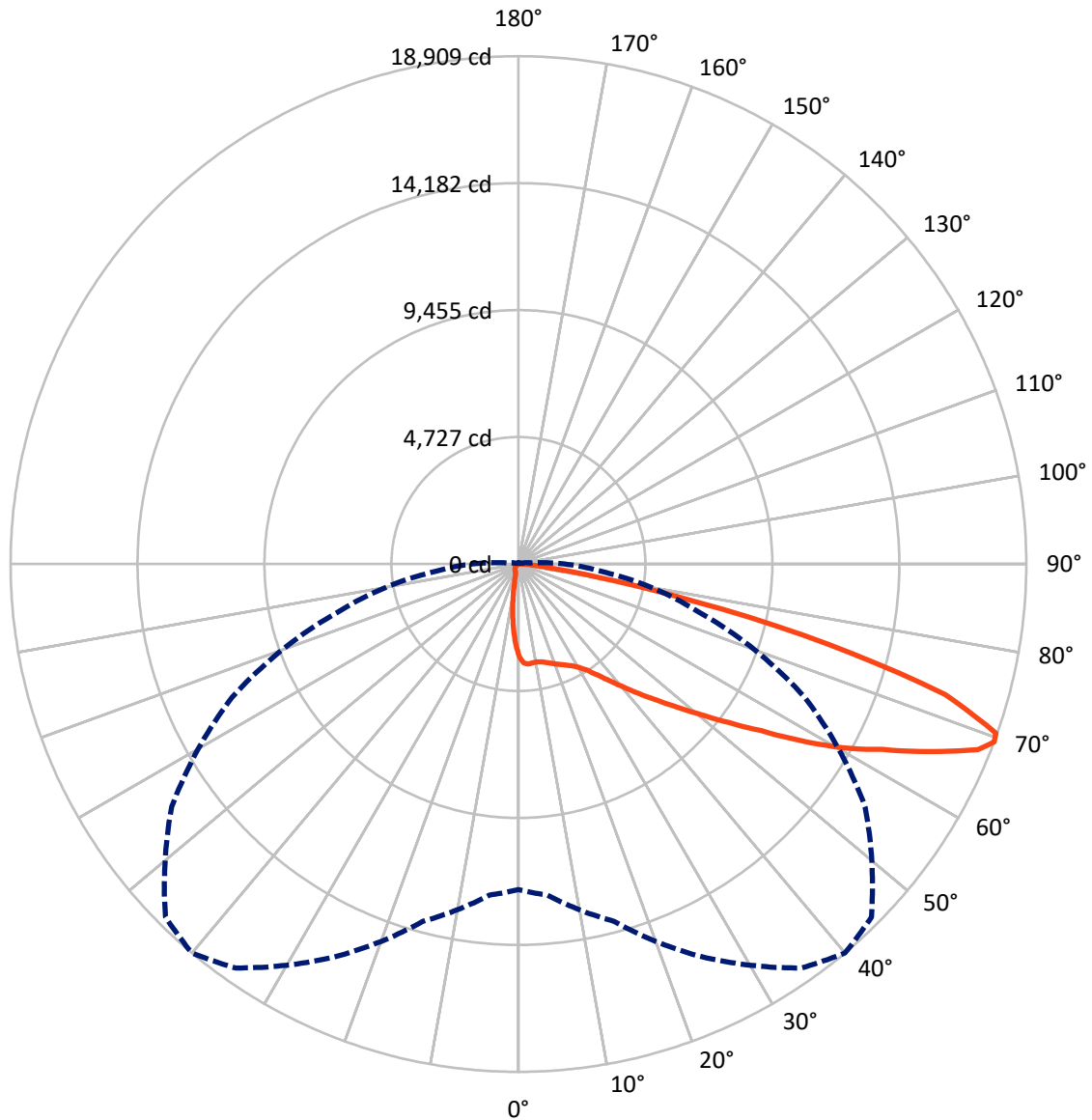


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P266926

CATALOG NUMBER: GAN-AF-05-LED-U-SL4-7027-1200-HSS-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P266926

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1346.3	0.0	1346.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	21665.5	0.0	21665.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	23011.8	0.0	23011.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	1.2
10°-20°	685.5	3.0
20°-30°	1154.7	5.0
30°-40°	1890.2	8.2
40°-50°	3272.8	14.2
50°-60°	5155.0	22.4
60°-70°	6732.3	29.3
70°-80°	3467.4	15.1
80°-90°	375.1	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°	23011.8	100.0
0°-180°	23011.8	100.0



REPORT NUMBER: P266926

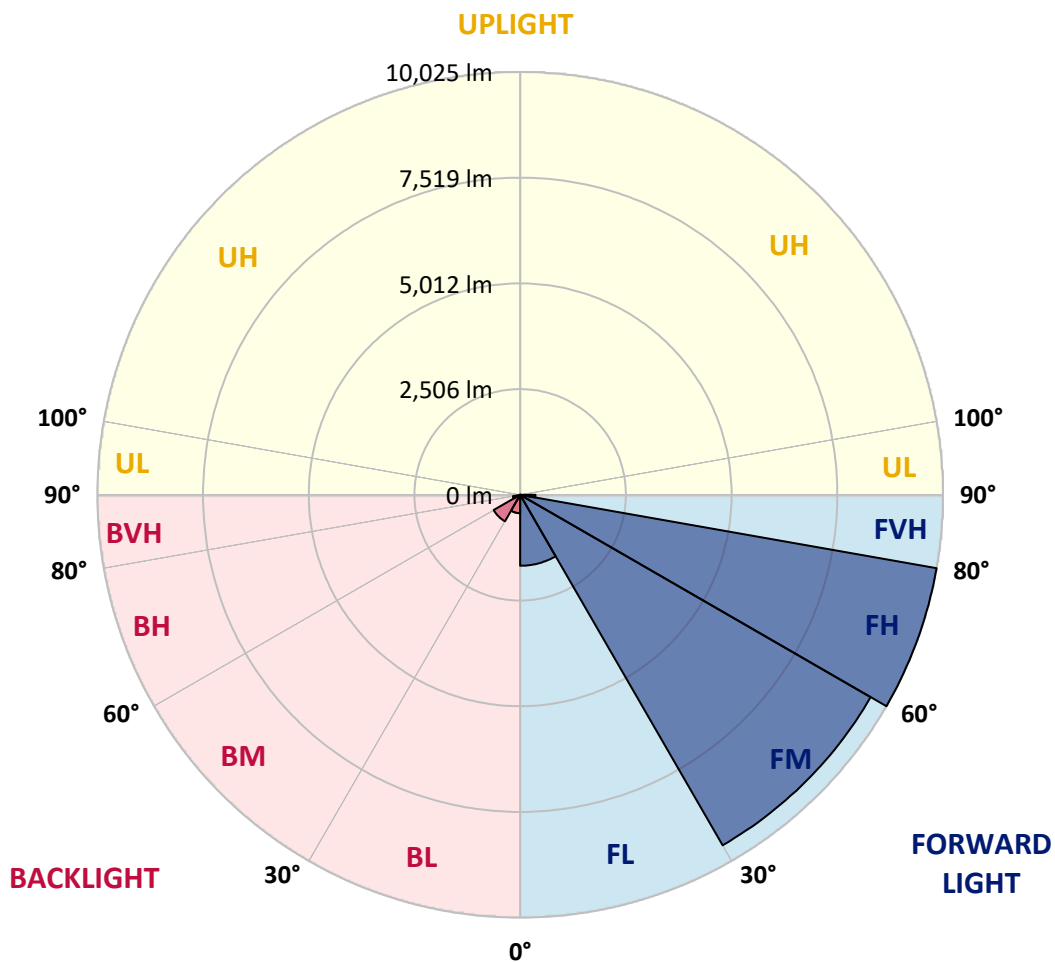
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1682.8	7.3			
FM	(30°-60°)	9594.5	41.7			
FH	(60°-80°)	10024.9	43.6			G4/12000
FVH	(80°-90°)	363.3	1.6			G3/500
BL	(0°-30°)	436.1	1.9	B1/500		
BM	(30°-60°)	723.6	3.1	B1/1000		
BH	(60°-80°)	174.8	0.8	B1/500		G1/500
BVH	(80°-90°)	11.8	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





REPORT NUMBER: P266926

CATALOG NUMBER: GAN-AF-05-LED-U-SL4-7027-1200-HSS-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2
2.5°	3775.0	3754.5	3742.2	3725.7	3705.1	3687.5	3680.5	3629.8	3581.9	3516.1	3440.8
5°	3844.8	3838.1	3816.1	3794.3	3769.6	3742.2	3727.1	3666.8	3598.3	3502.4	3371.0
7.5°	3851.8	3843.6	3816.1	3785.9	3751.7	3719.0	3692.8	3632.6	3569.5	3472.3	3312.1
10°	3840.9	3831.2	3810.7	3777.8	3735.3	3703.8	3677.8	3620.3	3566.8	3479.1	3301.1
12.5°	3828.4	3818.9	3809.4	3792.9	3755.9	3734.0	3712.1	3657.2	3609.3	3535.3	3340.8
15°	3840.9	3835.4	3846.3	3839.4	3818.9	3799.7	3777.8	3728.4	3684.7	3623.0	3413.4
17.5°	3892.9	3892.9	3927.1	3931.3	3911.9	3884.6	3853.1	3803.9	3766.9	3714.9	3499.7
20°	4014.7	4010.7	4054.5	4062.7	4016.1	3973.7	3927.1	3866.8	3838.1	3805.2	3584.6
22.5°	4224.3	4205.1	4231.1	4222.9	4131.1	4065.4	4007.9	3933.9	3918.9	3903.9	3679.2
25°	4496.9	4486.0	4503.7	4423.0	4261.3	4172.3	4103.7	4020.3	4020.3	4035.2	3785.9
27.5°	4892.8	4851.7	4791.4	4649.0	4406.5	4292.8	4218.8	4129.8	4153.1	4209.3	3927.1
30°	5298.3	5253.0	5114.7	4895.6	4583.2	4464.0	4377.7	4284.6	4339.4	4442.1	4116.2
32.5°	5698.2	5647.6	5451.6	5175.0	4836.7	4717.4	4633.8	4531.1	4622.9	4795.5	4392.8
35°	6085.7	6040.7	5814.5	5488.6	5173.6	5075.0	4998.2	4909.1	5026.9	5268.1	4783.1
37.5°	6521.3	6472.1	6196.8	5843.4	5583.1	5511.9	5455.8	5366.7	5572.1	5925.6	5326.9
40°	7056.9	6973.5	6602.3	6250.1	6057.0	6022.7	5984.5	5972.1	6291.3	6780.2	6051.6
42.5°	7670.6	7533.6	7026.8	6678.9	6577.6	6602.3	6592.7	6647.4	7191.2	7843.2	6933.7
45°	8284.3	8107.6	7499.4	7136.5	7150.1	7236.3	7289.8	7509.0	8318.6	9062.3	7882.9
47.5°	8804.7	8630.8	7952.8	7630.9	7795.3	7965.1	8110.3	8525.4	9477.3	10262.1	8621.3
50°	9249.9	9085.5	8433.6	8174.7	8544.5	8818.5	9054.0	9669.0	10723.7	11175.9	9138.9
52.5°	9614.3	9504.7	8932.1	8797.9	9400.7	9801.9	10147.2	10884.0	11827.9	11918.3	9541.6
55°	9969.1	9891.0	9467.7	9538.9	10406.1	10952.6	11389.5	12173.0	12778.4	12537.4	9928.0
57.5°	10377.3	10306.1	10078.7	10478.5	11727.8	12415.5	12892.1	13315.3	13615.4	13170.2	10292.3
60°	10793.7	10752.6	10758.0	11522.4	13245.5	13905.8	14168.7	14278.3	14437.2	13766.0	10312.9
62.5°	11190.8	11269.0	11534.6	12683.9	14698.8	15205.6	15338.5	15446.7	15260.4	13860.6	9528.1
65°	11863.5	11990.8	12625.0	14238.6	16297.3	16839.7	16976.8	16605.4	15390.5	12638.8	7750.0
67.5°	12192.2	12425.0	13556.4	15687.8	17848.0	18450.6	18400.0	16680.8	13811.3	9637.6	4973.6
69°	12123.6	12371.5	13771.6	16131.7	18363.0	18909.4	18587.5	15759.1	11766.2	6981.6	3053.2
70°	11852.4	12103.1	13660.5	16115.1	18428.6	18861.5	18239.6	14620.8	9948.5	5105.1	1909.4
72.5°	9897.9	10114.2	12127.7	14565.9	16976.8	16624.8	15259.1	10129.4	4847.6	1390.2	430.1
75°	6092.7	6213.1	8702.1	10973.1	12822.2	11918.3	10166.3	5039.3	1445.2	393.1	238.3
77.5°	3218.9	3273.8	4764.0	6467.9	8128.1	6725.5	5210.6	1965.6	665.7	246.6	172.6
80°	1902.6	1943.8	2565.6	2957.3	3517.6	2938.1	2083.3	1206.8	476.7	154.8	153.4
82.5°	1088.9	1114.9	1860.1	1643.7	1386.2	1183.4	1037.0	1143.7	286.3	104.2	158.9
85°	399.9	405.5	1046.4	1250.6	824.6	490.4	515.0	947.9	76.7	65.8	124.7
87.5°	186.3	182.1	538.4	765.6	482.2	311.0	401.4	208.1	30.2	42.5	34.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P266926

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2	3438.2
2.5°	3397.0	3346.2	3254.5	3160.0	3064.2	2990.2	2917.5	2860.1	2840.9	2805.2	2808.0
5°	3292.8	3199.8	3008.0	2813.5	2610.7	2443.6	2286.1	2158.7	2097.2	2034.1	2034.1
7.5°	3202.5	3066.9	2766.9	2450.4	2123.1	1847.9	1599.9	1413.7	1310.8	1228.7	1227.4
10°	3168.2	2984.7	2565.6	2112.2	1656.0	1280.8	986.2	797.2	700.0	637.0	634.3
12.5°	3183.4	2956.0	2410.8	1799.8	1227.4	823.2	571.2	449.3	408.2	389.1	389.1
15°	3227.2	2947.7	2256.1	1494.4	867.0	515.0	379.4	346.6	343.8	343.8	343.8
17.5°	3280.6	2950.5	2097.2	1197.3	590.4	368.5	327.3	323.3	326.1	326.1	326.1
20°	3335.3	2951.8	1925.8	921.8	416.5	320.5	308.2	306.9	309.6	309.6	311.0
22.5°	3402.5	2958.7	1754.7	689.0	343.8	302.6	293.1	293.1	294.6	294.6	293.1
25°	3479.1	2972.3	1576.5	511.0	313.7	290.4	282.2	280.8	282.2	280.8	279.5
27.5°	3575.1	2991.5	1378.0	399.9	299.9	278.0	271.2	271.2	269.9	268.5	267.1
30°	3695.5	3013.5	1154.7	339.6	286.3	267.1	260.2	258.9	257.5	254.8	254.8
32.5°	3879.2	3061.5	934.1	308.2	271.2	252.1	246.6	246.6	243.8	241.0	239.7
35°	4161.3	3155.9	736.9	289.1	254.8	235.5	228.8	228.8	226.1	224.7	223.3
37.5°	4551.7	3299.7	572.6	271.2	238.3	217.7	210.9	209.6	206.8	204.1	202.7
40°	5070.8	3477.8	450.7	254.8	221.9	200.1	194.6	191.8	186.3	182.1	182.1
42.5°	5722.8	3680.5	365.7	237.0	202.7	183.6	179.4	175.3	165.7	161.7	160.3
45°	6404.9	3862.7	309.6	216.4	183.6	167.2	164.4	157.6	145.2	141.0	141.0
47.5°	6896.6	3905.2	272.5	197.3	165.7	149.3	148.0	135.6	124.7	121.9	120.6
50°	7203.6	3821.6	242.5	178.0	149.3	132.9	128.7	113.6	106.9	104.2	102.8
52.5°	7410.4	3672.4	217.7	161.7	134.2	117.8	108.2	97.2	91.7	89.0	89.0
55°	7576.1	3461.3	193.1	146.6	121.9	105.6	91.7	83.5	78.1	75.4	75.4
57.5°	7622.7	3175.1	168.5	134.2	109.6	93.2	78.1	72.7	65.8	64.4	64.4
60°	7284.4	2658.8	149.3	119.1	98.6	80.8	68.5	61.7	54.7	53.4	52.0
62.5°	6392.7	2057.4	131.5	105.6	86.2	69.9	58.8	50.7	45.3	45.3	45.3
65°	4876.3	1379.3	115.1	91.7	75.4	58.8	50.7	41.1	38.4	38.4	39.7
67.5°	2919.0	750.7	98.6	78.1	64.4	49.2	42.5	35.7	34.2	35.7	35.7
69°	1710.8	441.1	89.0	69.9	56.1	43.8	37.0	31.5	34.2	35.7	35.7
70°	1056.0	297.2	82.1	63.1	50.7	39.7	34.2	30.2	32.9	34.2	34.2
72.5°	294.6	153.4	65.8	49.2	41.1	32.9	27.4	27.4	31.5	32.9	32.9
75°	191.8	113.6	50.7	37.0	31.5	26.1	23.3	26.1	30.2	31.5	31.5
77.5°	158.9	93.2	41.1	30.2	26.1	24.7	21.9	23.3	27.4	28.7	28.7
80°	145.2	65.8	32.9	27.4	23.3	21.9	20.5	19.1	24.7	26.1	26.1
82.5°	138.3	52.0	28.7	24.7	21.9	19.1	17.7	19.1	21.9	23.3	24.7
85°	86.2	34.2	26.1	23.3	19.1	17.7	17.7	17.7	20.5	21.9	21.9
87.5°	31.5	27.4	23.3	19.1	16.3	16.3	16.3	16.3	17.7	20.5	20.5
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)