

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: P191131

Luminaire Tested: **GAN-AF-03-LED-U-SL3-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-SL3-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15881.3 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

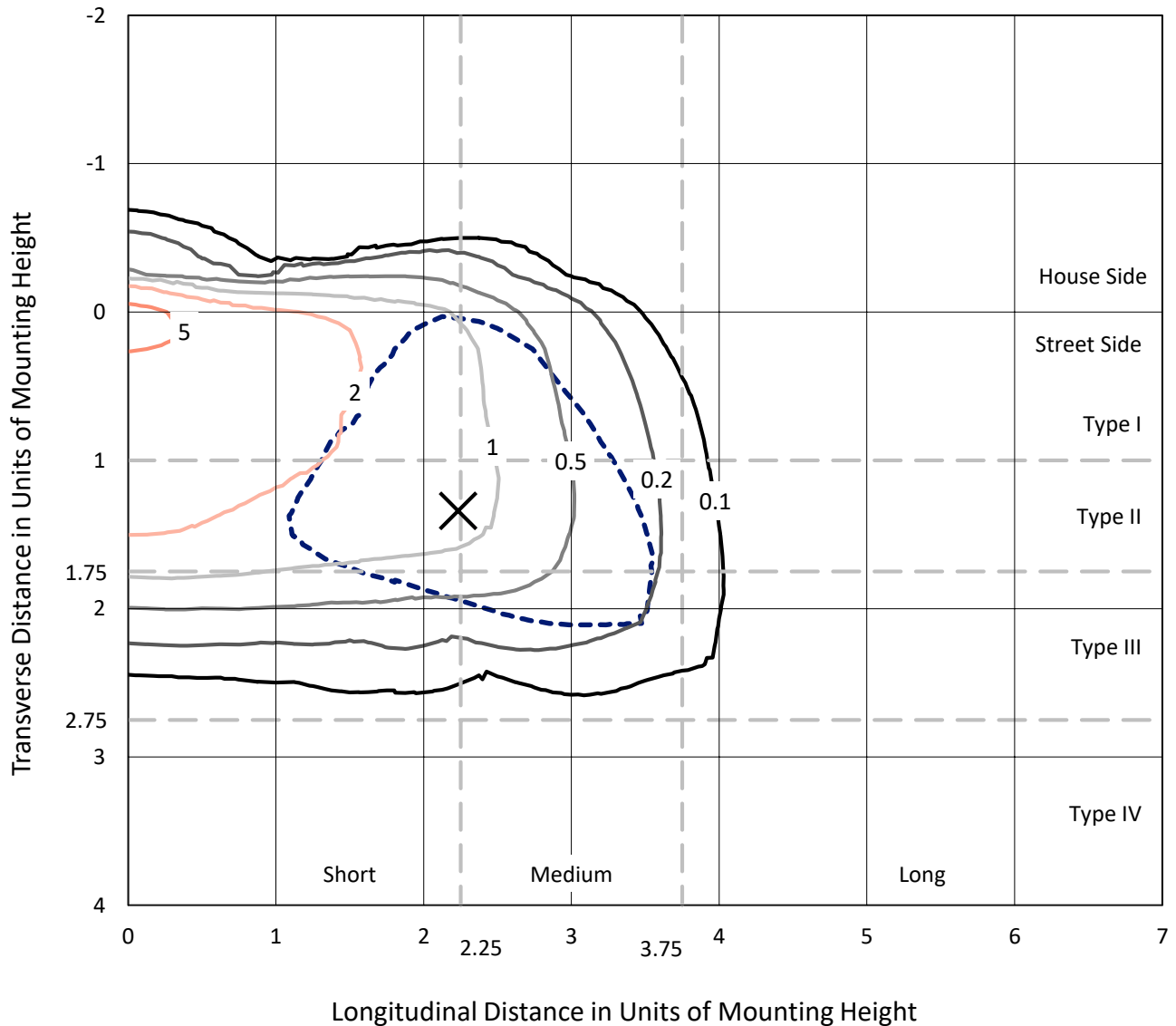
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

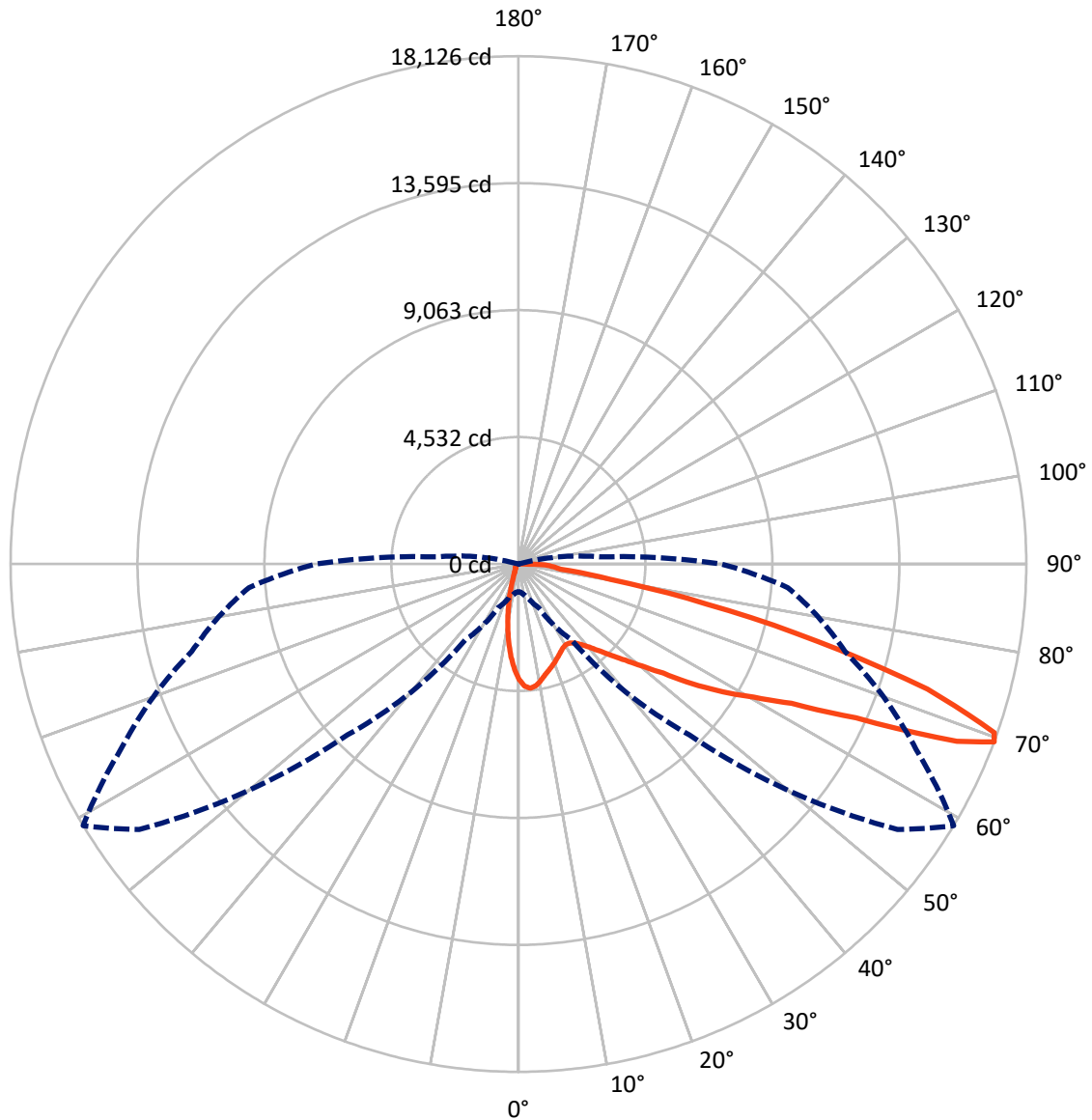
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1293.3	0.0	1293.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	14588.0	0.0	14588.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	15881.3	0.0	15881.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.5	2.1
10°-20°	693.3	4.4
20°-30°	932.9	5.9
30°-40°	1354.6	8.5
40°-50°	2255.4	14.2
50°-60°	3518.4	22.2
60°-70°	4353.8	27.4
70°-80°	2206.4	13.9
80°-90°	230.9	1.5
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°	15881.3	100.0
0°-180°	15881.3	100.0



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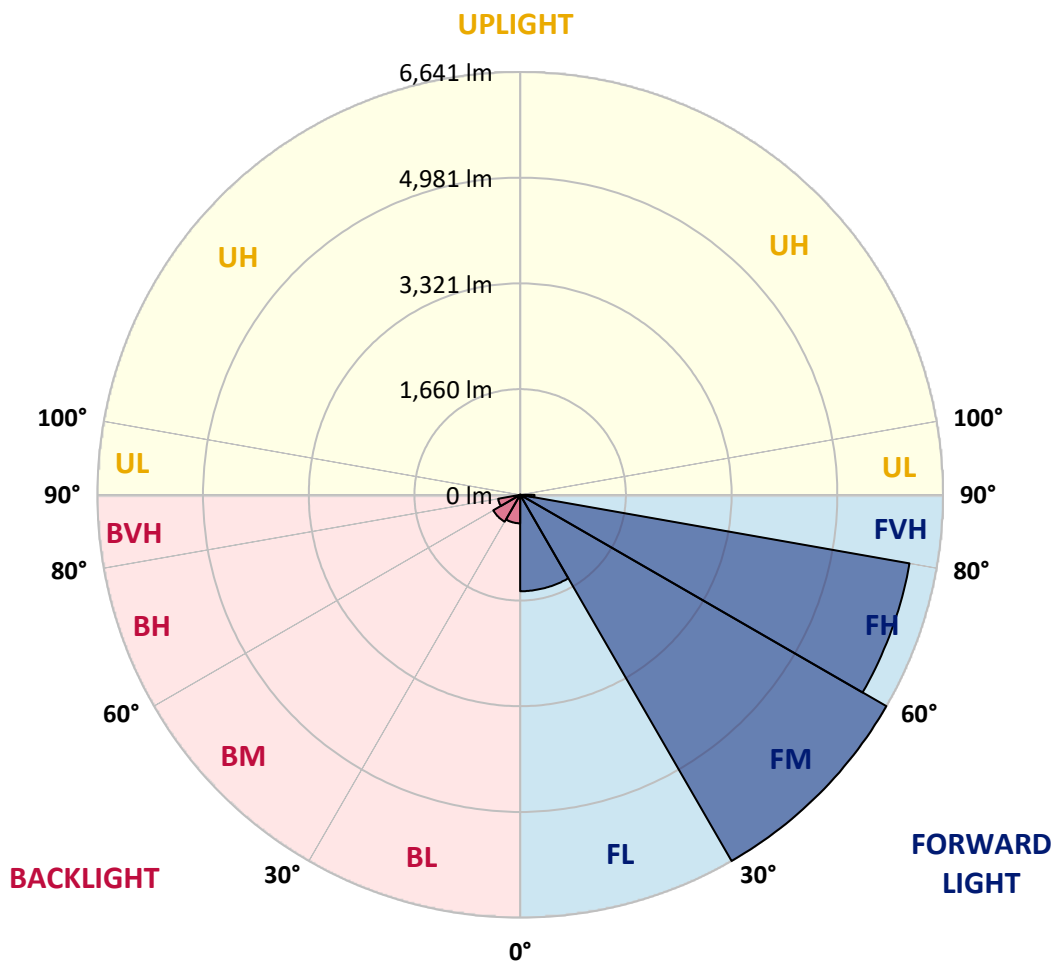
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1514.1	9.5			
FM	(30°-60°)	6641.1	41.8			
FH	(60°-80°)	6209.0	39.1			G3/7500
FVH	(80°-90°)	223.8	1.4			G2/225
BL	(0°-30°)	447.7	2.8	B1/500		
BM	(30°-60°)	487.3	3.1	B1/1000		
BH	(60°-80°)	351.2	2.2	B1/500		G1/500
BVH	(80°-90°)	7.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6
2.5°	4530.6	4528.8	4509.1	4500.1	4483.9	4449.8	4396.8	4369.0	4324.1	4246.0	4140.9
5°	4489.3	4510.9	4522.6	4523.4	4535.2	4522.6	4474.9	4451.6	4389.6	4263.9	4075.3
7.5°	4209.1	4217.2	4250.5	4279.2	4334.9	4387.8	4404.9	4395.0	4358.2	4223.5	3972.9
10°	3909.2	3917.3	3956.8	3994.5	4069.9	4151.6	4237.9	4255.8	4271.1	4166.0	3874.1
12.5°	3650.5	3658.6	3699.0	3748.4	3836.5	3937.0	4070.8	4100.5	4167.8	4111.2	3795.1
15°	3427.8	3431.4	3471.0	3532.0	3637.1	3766.4	3918.1	3965.8	4069.0	4072.6	3726.0
17.5°	3238.4	3247.4	3271.6	3329.9	3444.9	3604.8	3781.6	3849.9	3971.1	4040.2	3658.6
20°	3122.5	3131.5	3130.5	3162.9	3266.2	3436.8	3645.2	3726.9	3874.1	4007.1	3598.4
22.5°	3100.1	3100.1	3076.7	3072.2	3133.3	3276.1	3503.3	3602.9	3787.1	3992.7	3556.3
25°	3179.9	3176.4	3118.0	3070.4	3073.1	3158.5	3365.8	3484.4	3713.4	4002.6	3533.8
27.5°	3348.8	3344.3	3270.7	3179.9	3107.2	3106.3	3261.7	3389.2	3655.0	4049.2	3542.8
30°	3582.3	3580.5	3500.5	3386.5	3254.5	3133.3	3225.8	3341.6	3617.4	4133.6	3563.4
32.5°	3837.3	3834.6	3774.5	3654.1	3487.1	3254.5	3263.5	3360.5	3628.1	4246.0	3613.7
35°	4107.7	4103.2	4077.1	3972.0	3788.0	3478.1	3387.4	3462.9	3696.3	4413.8	3712.5
37.5°	4400.4	4404.9	4423.8	4323.2	4130.1	3791.6	3594.9	3646.0	3833.7	4641.9	3873.3
40°	4832.3	4831.5	4837.7	4705.8	4519.8	4175.0	3885.0	3901.1	4063.7	4944.6	4117.5
42.5°	5616.3	5561.6	5395.5	5126.0	4939.2	4613.2	4250.5	4233.4	4344.7	5319.1	4459.7
45°	6669.7	6553.0	6122.0	5605.6	5366.7	5107.2	4700.4	4645.5	4716.5	5769.0	4881.7
47.5°	7575.9	7454.7	6844.9	6104.9	5820.2	5575.9	5227.5	5128.7	5152.1	6272.8	5417.0
50°	7883.9	7824.7	7292.1	6539.5	6259.3	6165.9	5839.1	5718.7	5685.5	6855.6	6037.6
52.5°	7777.1	7772.6	7417.8	6821.5	6661.7	6776.6	6608.7	6469.4	6347.3	7469.9	6668.8
55°	7605.5	7627.9	7469.0	7068.5	7063.1	7334.4	7661.2	7545.4	7191.5	8137.2	7213.0
57.5°	7132.2	7228.4	7440.2	7535.5	7756.4	8033.8	8537.6	8606.0	8187.5	8648.1	7664.8
60°	5786.9	5998.0	6691.3	7602.8	8650.0	9341.4	9595.6	9654.0	9004.6	9073.0	8274.5
62.5°	4107.7	4323.2	5202.3	6744.3	8663.4	11059.4	11171.6	10942.6	9904.5	9702.5	9326.1
65°	2180.4	2346.5	3065.0	4868.3	7511.2	11458.1	13927.7	13245.2	11492.2	10940.9	10684.9
67.5°	1115.3	1165.7	1451.3	2382.6	5163.8	10177.5	16398.2	16878.7	14228.5	12169.3	10619.4
69°	986.9	1016.6	1206.1	1722.4	3306.6	8620.3	16518.6	18126.1	15661.0	12067.0	9650.3
70°	955.5	981.5	1154.0	1559.0	2584.6	7229.2	16057.9	18016.5	16027.4	11677.2	8926.6
72.5°	810.9	833.4	1027.3	1377.6	2100.5	3588.6	13044.1	15266.7	14382.2	9727.5	6461.4
75°	542.4	616.0	986.0	1291.4	1954.1	2038.5	8599.6	11032.4	10248.4	6561.1	3365.8
77.5°	130.2	140.1	278.3	1027.3	1787.1	1794.3	4422.8	6858.4	5593.9	2338.5	795.7
80°	70.1	67.3	78.2	203.9	1664.0	1683.8	1991.0	3329.1	1997.2	387.9	262.2
82.5°	49.4	46.7	50.3	85.3	523.5	1533.8	1440.4	1506.9	828.0	149.0	117.6
85°	18.0	17.1	27.8	77.2	164.4	881.9	1480.0	1242.9	670.9	68.2	86.2
87.5°	6.2	5.4	10.7	42.2	50.3	375.4	913.3	939.4	264.0	41.3	40.4
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°	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6	4133.6
2.5°	4096.8	4041.2	3938.8	3833.7	3736.7	3620.0	3561.6	3504.1	3479.9	3471.0	3428.7
5°	3978.4	3884.0	3666.7	3448.5	3247.4	3033.6	2892.6	2779.5	2713.0	2680.6	2629.5
7.5°	3826.6	3672.1	3342.5	3005.7	2692.3	2383.4	2154.4	1978.4	1857.2	1798.8	1745.8
10°	3679.2	3473.6	3004.8	2545.9	2120.3	1710.8	1394.7	1165.7	1019.3	952.0	908.8
12.5°	3547.3	3280.5	2678.9	2097.9	1563.5	1083.9	762.4	580.1	489.5	458.0	442.7
15°	3429.6	3102.7	2370.8	1672.1	1058.8	619.6	416.6	354.8	340.3	340.3	338.6
17.5°	3318.2	2928.5	2073.6	1272.6	664.5	379.0	317.0	308.9	308.9	312.5	312.5
20°	3211.3	2762.4	1786.2	913.3	418.5	300.8	286.4	284.7	286.4	290.9	290.9
22.5°	3119.8	2611.5	1517.6	626.9	310.8	271.2	264.0	261.4	262.2	264.9	266.7
25°	3051.6	2484.0	1264.5	424.7	267.6	246.9	238.9	234.4	230.8	230.8	232.6
27.5°	3008.4	2376.2	1019.3	308.9	240.7	224.5	212.0	204.8	196.7	192.2	194.0
30°	2977.0	2273.8	789.4	252.4	215.5	199.4	183.2	171.5	159.9	154.5	156.3
32.5°	2965.3	2191.3	590.0	222.7	193.0	175.1	155.4	140.1	127.6	123.1	123.9
35°	2996.7	2125.7	432.0	201.1	175.1	152.6	130.2	113.1	103.3	100.6	101.5
37.5°	3079.4	2090.6	323.3	183.2	159.0	133.8	108.6	92.5	86.2	86.2	87.2
40°	3235.6	2089.8	259.5	170.6	144.5	115.8	89.8	78.2	74.6	76.3	77.2
42.5°	3463.7	2137.4	226.3	159.0	132.1	98.8	74.6	66.5	65.6	67.3	68.2
45°	3775.4	2224.4	208.4	149.0	118.6	82.7	62.9	57.5	57.5	60.1	61.1
47.5°	4157.1	2352.0	193.0	139.2	105.1	69.2	53.9	50.3	51.1	53.9	54.8
50°	4616.8	2512.7	177.8	128.4	95.2	57.5	46.7	44.0	44.9	48.5	49.4
52.5°	5140.4	2729.1	165.2	118.6	82.7	47.6	39.5	37.7	39.5	43.1	44.0
55°	5589.4	2923.1	150.0	110.5	66.5	39.5	32.3	32.3	34.2	38.6	39.5
57.5°	6021.4	3126.0	136.5	95.2	52.1	31.4	26.9	27.8	30.5	35.0	35.9
60°	6655.4	3470.1	120.3	79.9	39.5	25.2	22.4	23.3	26.9	31.4	32.3
62.5°	7732.2	3993.6	104.1	66.5	30.5	19.7	18.0	19.7	24.2	29.7	30.5
65°	8703.8	4206.5	85.3	55.6	23.3	15.2	15.2	18.0	23.3	28.7	29.7
67.5°	8162.3	3540.9	66.5	44.0	18.0	11.7	12.6	17.1	22.4	28.7	29.7
69°	7218.5	2895.3	56.6	35.0	15.2	10.7	11.7	17.1	22.4	27.8	28.7
70°	6483.0	2444.4	50.3	29.7	13.5	10.7	11.7	16.2	22.4	27.8	28.7
72.5°	4342.0	1320.1	40.4	21.6	12.6	9.9	9.9	16.2	21.6	26.9	27.8
75°	1866.2	364.6	32.3	15.2	10.7	9.0	9.0	15.2	20.7	26.1	27.8
77.5°	341.3	92.5	26.1	13.5	10.7	9.0	8.1	14.3	19.7	25.2	26.1
80°	135.6	45.8	20.7	11.7	9.9	8.1	7.2	13.5	18.8	24.2	25.2
82.5°	81.7	26.1	17.1	10.7	9.9	7.2	6.2	11.7	18.0	23.3	24.2
85°	66.5	18.0	13.5	10.7	9.0	7.2	5.4	10.7	16.2	22.4	23.3
87.5°	32.3	12.6	12.6	9.9	9.0	7.2	5.4	9.9	15.2	21.6	22.4
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)