

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: P198671

Luminaire Tested: **XNV2-AF-02-LED-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24283)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-AFL-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10354.3 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 111
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

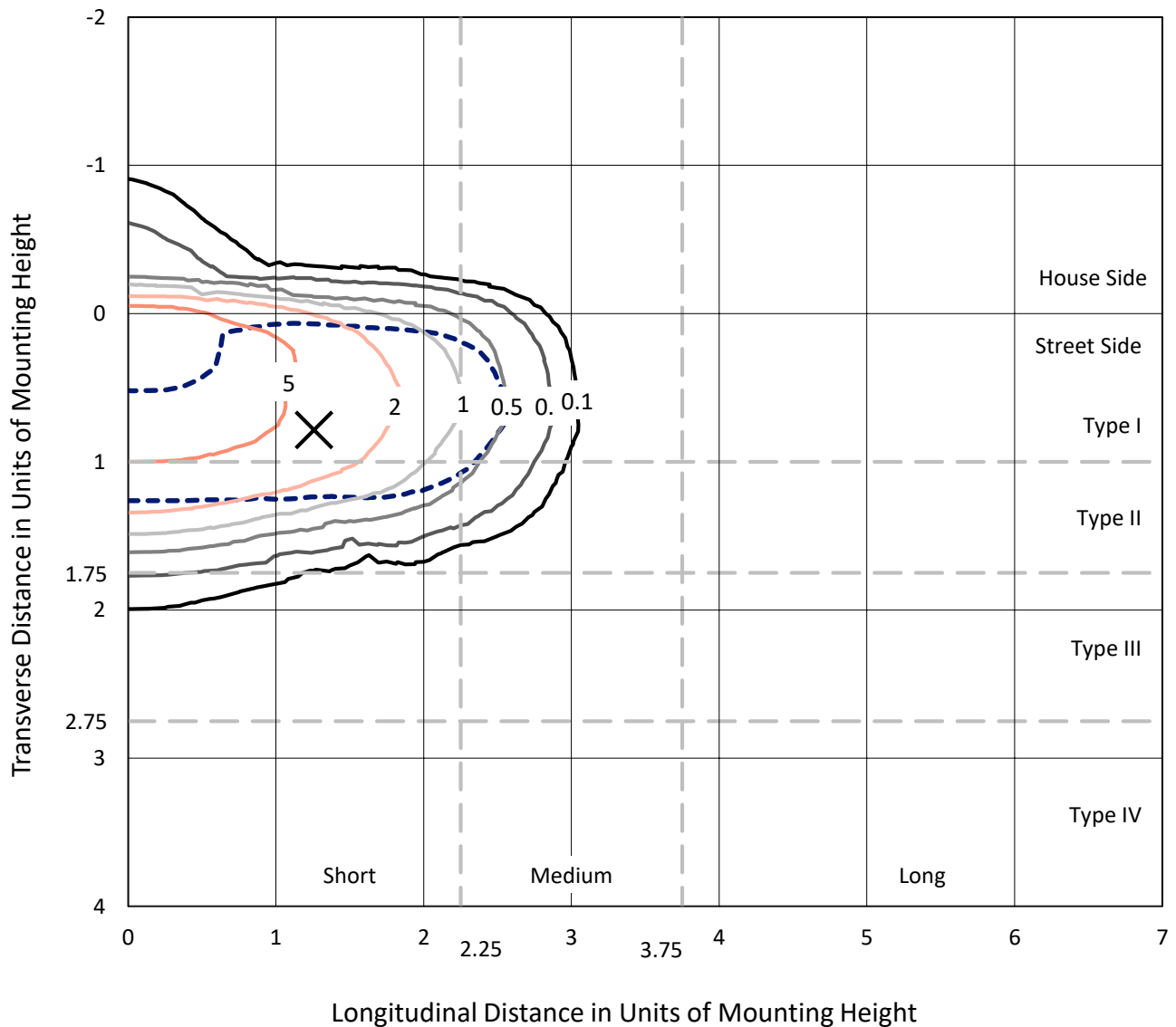


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

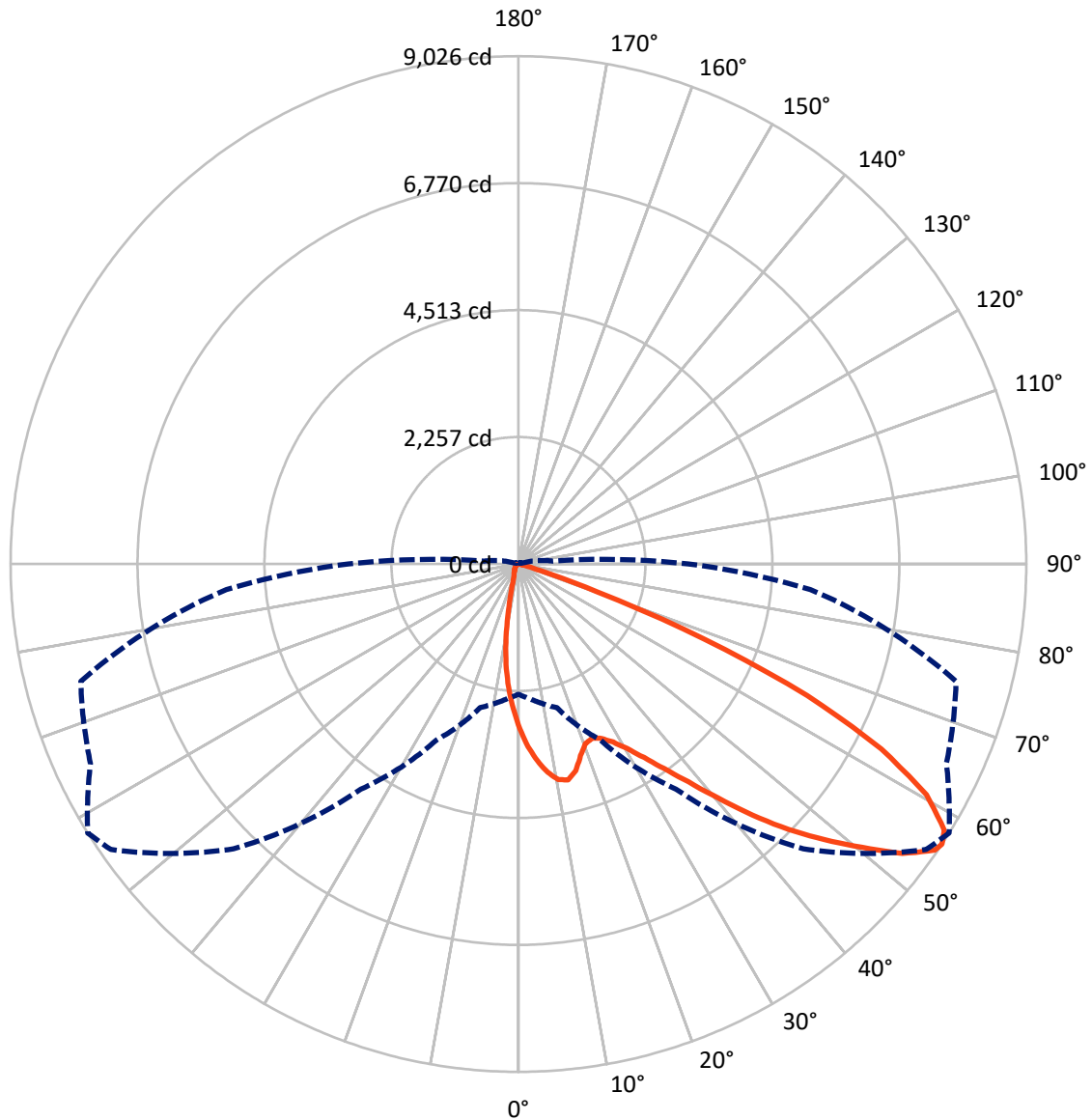


Based on 20 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	646.3	0.0	646.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	9708.0	0.0	9708.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	10354.3	0.0	10354.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	2.4
10°-20°	581.9	5.6
20°-30°	979.2	9.5
30°-40°	1676.7	16.2
40°-50°	2530.2	24.4
50°-60°	2630.0	25.4
60°-70°	1476.5	14.3
70°-80°	202.4	2.0
80°-90°	27.4	0.3
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°	10354.3	100.0
0°-180°	10354.3	100.0

Coefficient of Utilization



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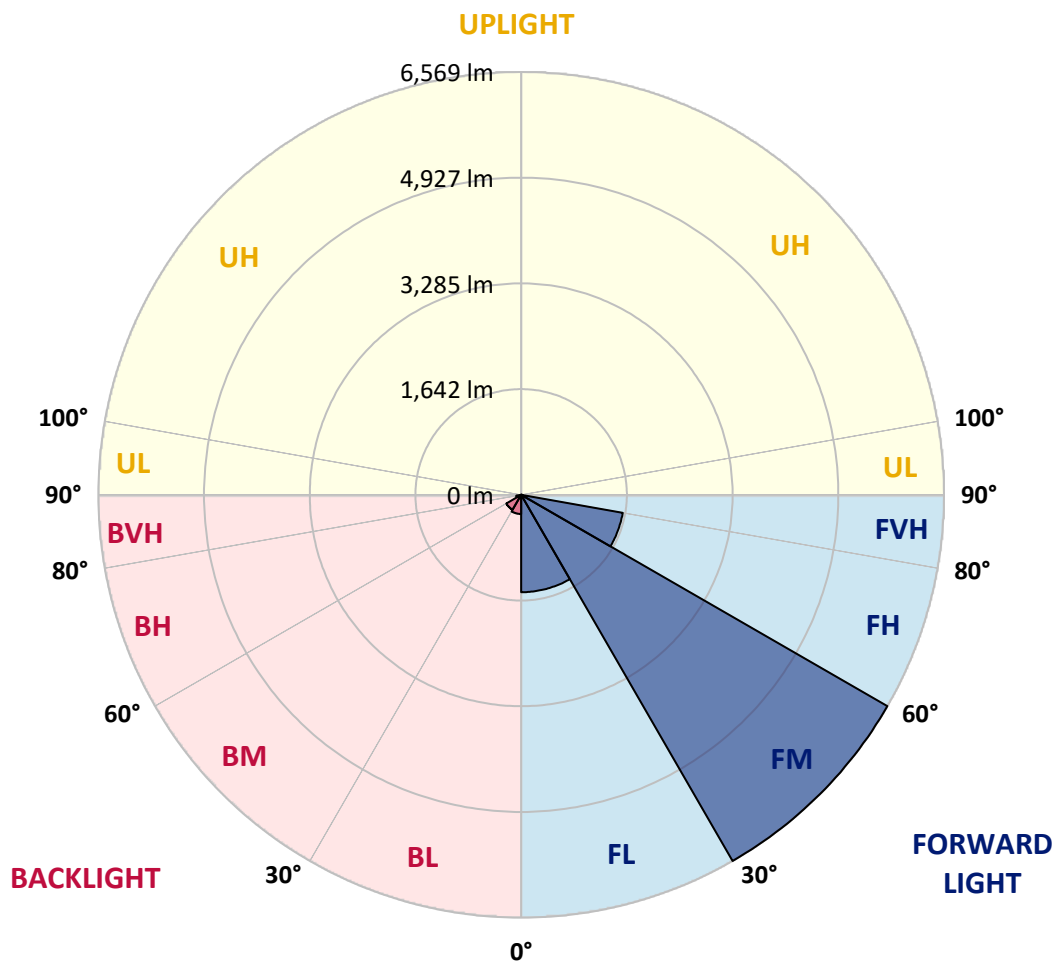
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1513.0	14.6			
FM	(30°-60°)	6569.2	63.4			
FH	(60°-80°)	1602.2	15.5			G1/1800
FVH	(80°-90°)	23.6	0.2			G1/100
BL	(0°-30°)	298.1	2.9	B1/500		
BM	(30°-60°)	267.7	2.6	B1/1000		
BH	(60°-80°)	76.7	0.7	B0/110		G0/110
BVH	(80°-90°)	3.8	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6
2.5°	3527.2	3506.0	3483.9	3442.7	3404.8	3346.4	3265.8	3246.0	3182.8	3078.6	2981.4
5°	3831.4	3827.5	3812.4	3779.3	3738.2	3667.1	3576.2	3515.4	3417.5	3253.2	3065.9
7.5°	3651.3	3684.5	3739.0	3816.4	3868.5	3861.4	3791.9	3739.0	3641.8	3417.5	3148.8
10°	3077.8	3084.1	3159.2	3321.8	3579.4	3819.6	3910.4	3896.2	3806.9	3561.2	3221.6
12.5°	2875.5	2879.5	2896.9	2949.0	3116.5	3451.4	3863.0	3937.2	3930.2	3698.7	3298.9
15°	2891.4	2893.7	2898.4	2915.0	2962.5	3130.7	3622.9	3811.6	4009.1	3829.0	3374.8
17.5°	3016.2	3014.5	2999.6	2983.7	2998.8	3054.0	3378.0	3577.1	3992.6	3938.9	3437.2
20°	3259.4	3267.4	3216.8	3146.5	3110.2	3112.5	3257.1	3406.4	3899.4	4024.2	3483.9
22.5°	3601.5	3607.0	3524.1	3402.4	3295.8	3242.0	3282.3	3361.4	3791.9	4103.2	3521.7
25°	4010.0	4010.0	3893.9	3720.8	3555.7	3438.0	3403.3	3433.2	3750.9	4192.5	3559.7
27.5°	4450.8	4466.5	4314.9	4088.1	3870.1	3697.9	3588.9	3583.4	3782.5	4304.6	3602.3
30°	4930.3	4944.5	4764.4	4487.1	4228.8	4008.3	3840.9	3804.6	3903.3	4455.5	3664.7
32.5°	5407.4	5419.3	5220.2	4937.4	4636.4	4377.3	4156.9	4099.2	4120.5	4675.9	3756.4
35°	6014.1	6016.5	5764.5	5428.0	5106.5	4802.2	4523.4	4466.5	4442.9	4953.9	3888.2
37.5°	6496.8	6477.8	6318.3	5999.9	5630.9	5313.4	4985.6	4911.3	4854.4	5345.0	4092.9
40°	6610.5	6610.5	6586.9	6491.2	6198.2	5892.5	5574.9	5464.3	5338.7	5805.6	4367.8
42.5°	6314.3	6333.3	6489.7	6697.5	6699.8	6503.9	6193.5	6100.3	5879.0	6330.1	4668.0
45°	5651.5	5657.0	6032.3	6593.2	6974.0	7086.1	6857.0	6728.3	6421.8	6875.2	4942.9
47.5°	5412.9	5430.3	5589.9	6275.6	6994.5	7557.8	7493.7	7316.8	6924.1	7372.9	5199.7
50°	5046.4	5067.7	5262.9	5807.9	6809.7	7860.4	8102.8	7913.2	7381.6	7787.6	5326.8
52.5°	4169.5	4202.7	4478.4	5189.4	6347.5	7872.9	8660.5	8546.8	7850.0	8009.6	5311.9
55°	2869.2	2893.7	3215.2	4051.0	5415.3	7486.7	8900.7	8979.0	8267.9	8059.4	5239.1
56°	2314.6	2406.3	2641.7	3451.4	4884.5	7158.0	8845.5	9026.3	8392.0	8051.4	5207.5
57.5°	1530.2	1547.6	1804.3	2501.1	3922.3	6444.7	8595.8	8925.2	8551.6	8011.2	5184.6
60°	719.6	727.5	820.0	1154.2	2122.7	4696.5	7784.5	8331.1	8610.0	7926.6	5183.8
62.5°	469.2	470.9	481.9	550.7	868.2	2558.0	6453.4	7240.1	8125.7	7917.2	5168.9
65°	386.3	390.3	376.9	385.6	454.2	964.5	4551.8	5644.4	6989.0	7694.4	4999.8
67.5°	340.4	341.3	323.2	312.8	332.6	423.4	2293.4	3560.5	5227.3	6537.9	4118.2
70°	310.5	309.6	289.1	265.5	266.3	281.2	747.4	1478.9	2892.1	3882.0	2364.4
72.5°	275.7	277.3	265.5	232.2	221.2	199.1	281.2	399.0	984.3	1246.6	623.3
75°	241.7	238.6	226.7	205.4	184.8	133.5	141.4	169.8	256.8	254.4	134.3
77.5°	183.3	180.1	185.7	175.3	144.5	93.2	77.4	88.5	116.1	108.2	54.5
80°	139.8	138.2	126.4	150.1	132.0	70.3	52.9	54.5	63.2	57.7	26.9
82.5°	101.1	100.4	95.5	92.5	83.8	51.4	40.3	42.7	47.4	40.3	19.7
85°	38.7	38.7	75.1	63.2	57.7	34.8	28.4	30.8	36.3	29.3	13.4
87.5°	6.3	6.3	50.5	41.8	26.1	17.4	18.2	19.7	21.4	17.4	10.2
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°	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6
2.5°	2923.7	2870.8	2754.7	2642.5	2544.5	2437.1	2382.6	2319.3	2295.7	2248.2	2253.0
5°	2953.8	2843.2	2610.1	2364.4	2139.3	1910.2	1747.4	1594.2	1508.9	1424.4	1424.4
7.5°	2984.6	2815.5	2455.3	2062.7	1683.5	1290.9	1012.7	790.0	665.9	583.0	580.6
10°	3005.8	2780.0	2279.1	1712.7	1153.4	665.1	401.3	316.0	285.2	271.8	271.0
12.5°	3033.6	2744.4	2078.4	1300.3	640.7	316.0	250.4	237.0	231.5	228.3	228.3
15°	3057.2	2693.8	1835.2	874.5	336.6	237.0	215.6	210.9	210.1	209.3	210.1
17.5°	3062.7	2621.9	1543.6	511.9	244.1	206.9	197.5	193.5	193.5	192.7	192.7
20°	3050.1	2527.1	1221.3	316.0	210.9	190.4	180.1	175.3	174.6	174.6	174.6
22.5°	3024.0	2406.3	903.0	239.4	192.0	175.3	161.9	157.2	157.2	158.0	158.8
25°	2991.6	2263.3	620.1	206.2	177.8	159.6	146.2	141.4	143.0	144.5	145.4
27.5°	2950.6	2092.7	406.0	178.5	158.8	143.8	132.0	128.8	132.0	135.1	136.7
30°	2909.5	1905.5	274.9	154.9	137.5	126.4	119.3	118.5	123.3	130.3	131.1
32.5°	2882.7	1713.4	207.8	139.0	120.9	111.4	108.2	109.8	116.9	124.8	126.4
35°	2880.2	1526.2	177.0	126.4	109.8	101.1	99.5	104.2	112.2	118.5	120.1
37.5°	2917.4	1350.9	160.4	116.9	101.1	92.5	90.0	98.7	105.9	112.2	113.8
40°	2992.4	1193.7	149.4	108.2	94.0	83.8	82.1	89.3	96.4	103.5	105.9
42.5°	3086.4	1046.7	136.7	99.5	86.1	74.3	72.6	78.3	85.3	95.5	97.2
45°	3167.8	910.0	123.3	90.0	77.4	64.0	63.2	69.6	75.1	84.5	86.1
47.5°	3236.5	796.3	110.6	79.8	66.4	56.9	56.1	59.2	62.4	71.1	72.6
50°	3200.2	699.9	98.0	65.6	53.7	49.0	48.2	48.2	52.2	60.9	62.4
52.5°	3110.9	639.9	86.1	54.5	44.2	41.8	39.5	40.3	44.2	48.2	49.0
55°	3039.1	611.4	75.8	48.2	37.1	34.8	32.4	31.6	32.4	30.8	29.3
56°	3021.7	608.2	73.4	46.6	35.6	32.4	29.3	27.6	26.9	23.7	22.9
57.5°	3013.8	608.2	69.6	43.5	33.1	29.3	25.3	22.1	18.9	16.6	16.6
60°	3007.5	612.2	64.8	38.0	28.4	23.7	18.2	13.4	11.0	11.0	11.0
62.5°	2994.1	610.7	59.2	31.6	24.4	18.2	11.0	8.7	7.9	8.7	9.5
65°	2843.2	567.2	52.2	25.3	18.9	12.7	6.3	6.3	7.2	8.7	9.5
67.5°	2290.9	429.7	42.7	19.7	13.4	9.5	5.5	5.5	7.2	8.7	9.5
70°	1258.4	226.7	36.3	14.2	10.2	7.9	5.5	4.7	7.2	8.7	9.5
72.5°	307.3	94.8	33.1	11.0	9.5	7.2	4.7	4.7	7.2	8.7	9.5
75°	75.8	71.1	26.9	8.7	7.9	6.3	4.7	4.7	7.2	8.7	9.5
77.5°	35.6	94.0	18.2	7.9	7.2	5.5	4.7	4.7	7.2	8.7	8.7
80°	21.4	71.1	11.0	7.2	6.3	5.5	4.7	4.7	7.2	8.7	9.5
82.5°	12.7	20.6	7.9	7.2	6.3	4.7	4.7	4.7	7.2	8.7	9.5
85°	11.0	10.2	7.9	7.2	6.3	5.5	4.7	4.7	7.9	9.5	9.5
87.5°	8.7	7.9	7.2	6.3	6.3	5.5	4.7	4.7	7.2	8.7	9.5
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)