

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: P271149

Luminaire Tested: **NVN-AF-06-LED-U-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-06-LED-U-SL2-7027-800-HSS
Description: NAVION ROADWAY AND AREA LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20626.8 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 249
Input Voltage (V): NR
Input Current (A_{in}): 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

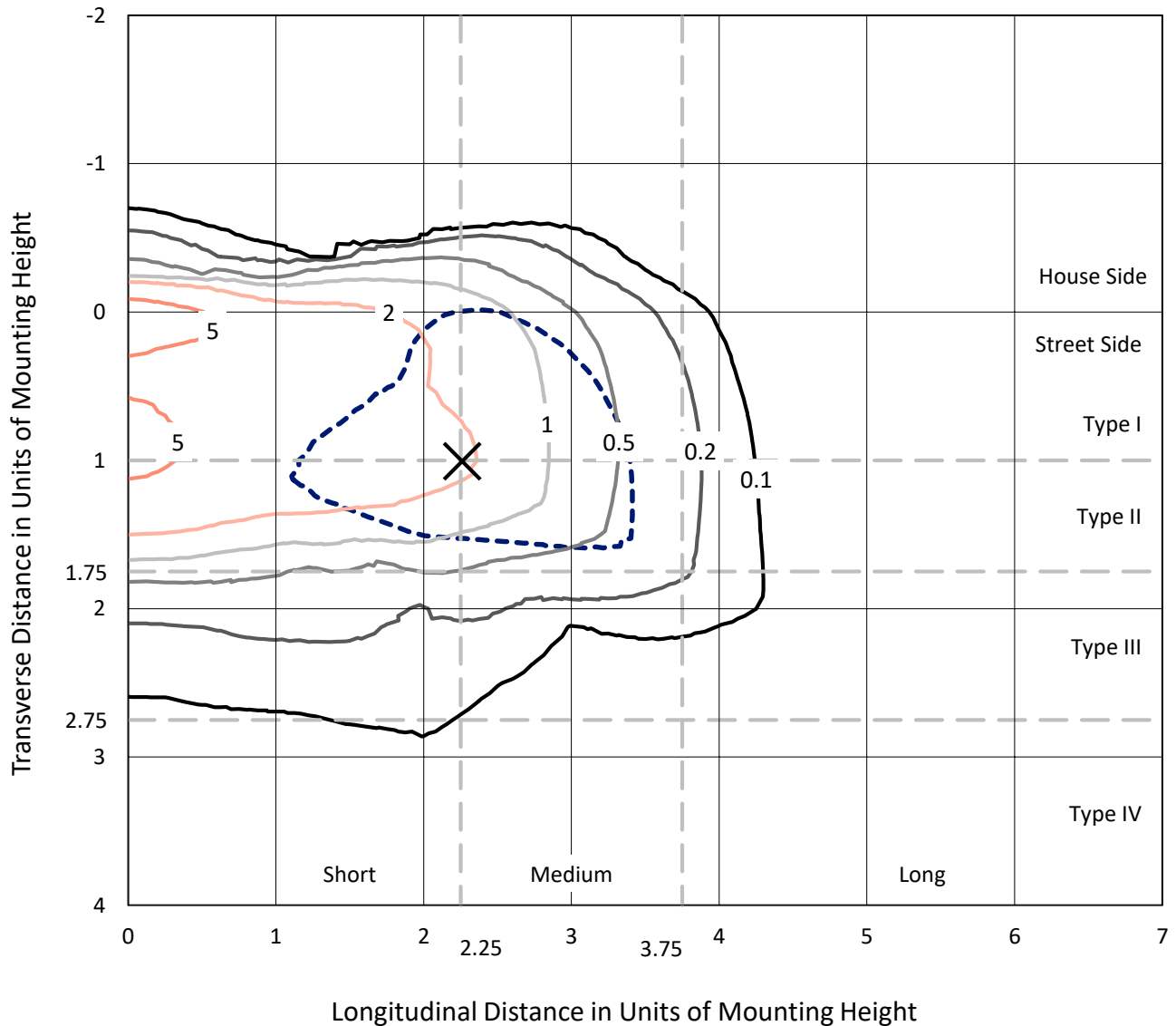


REPORT NUMBER: P271149

CATALOG NUMBER: NVN-AF-06-LED-U-SL2-7027-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

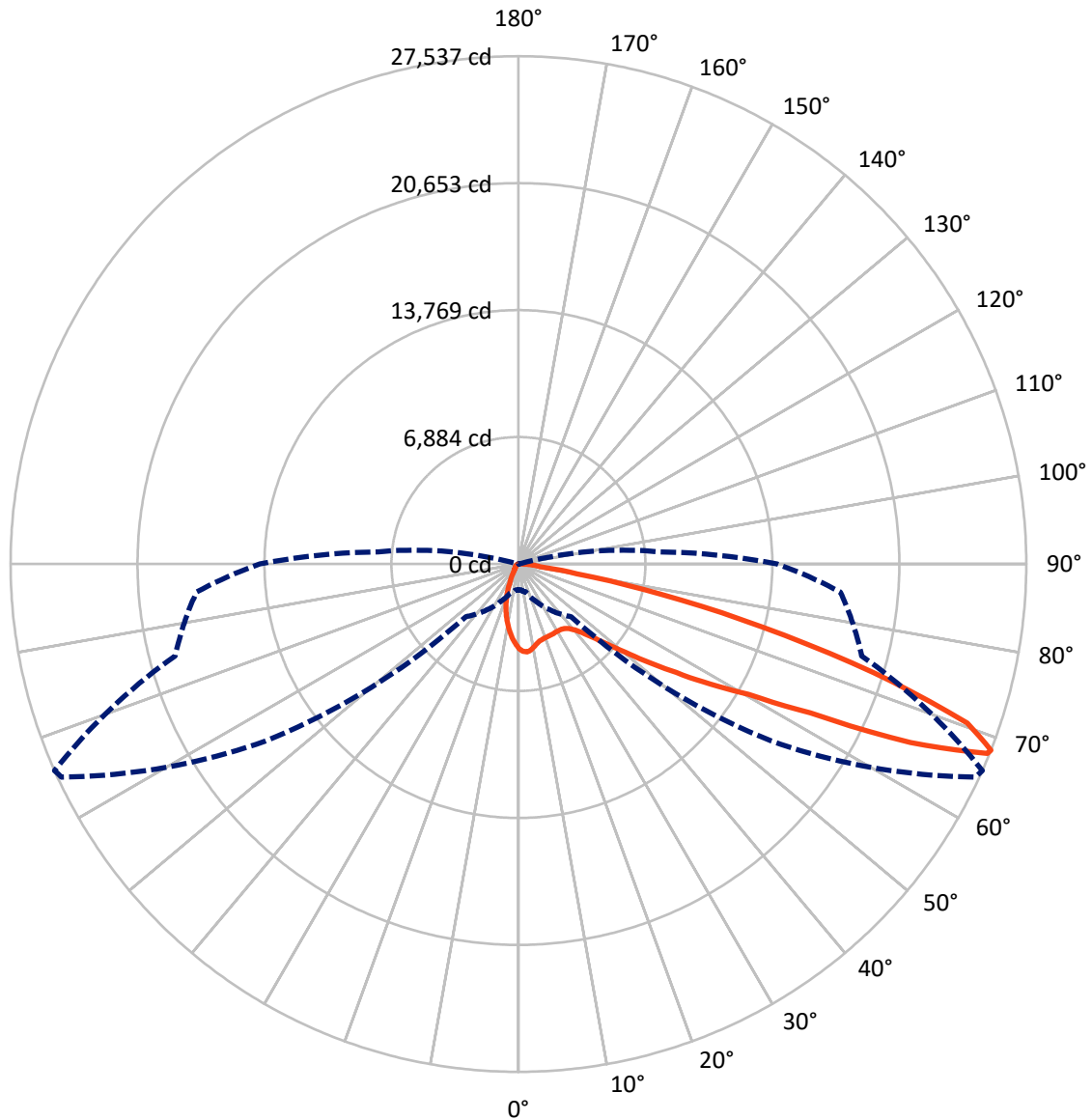


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P271149

CATALOG NUMBER: NVN-AF-06-LED-U-SL2-7027-800-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



REPORT NUMBER: P271149

CATALOG NUMBER: NVN-AF-06-LED-U-SL2-7027-800-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2089.3	0.0	2089.3
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	18537.5	0.0	18537.5
	% Fixture	89.9	0.0	89.9
Total	Lumens	20626.8	0.0	20626.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.7	1.8
10°-20°	810.6	3.9
20°-30°	1174.6	5.7
30°-40°	1798.1	8.7
40°-50°	3075.5	14.9
50°-60°	4811.0	23.3
60°-70°	5539.7	26.9
70°-80°	2772.1	13.4
80°-90°	268.5	1.3
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°	20626.8	100.0
0°-180°	20626.8	100.0

Coefficient of Utilization



REPORT NUMBER: P271149

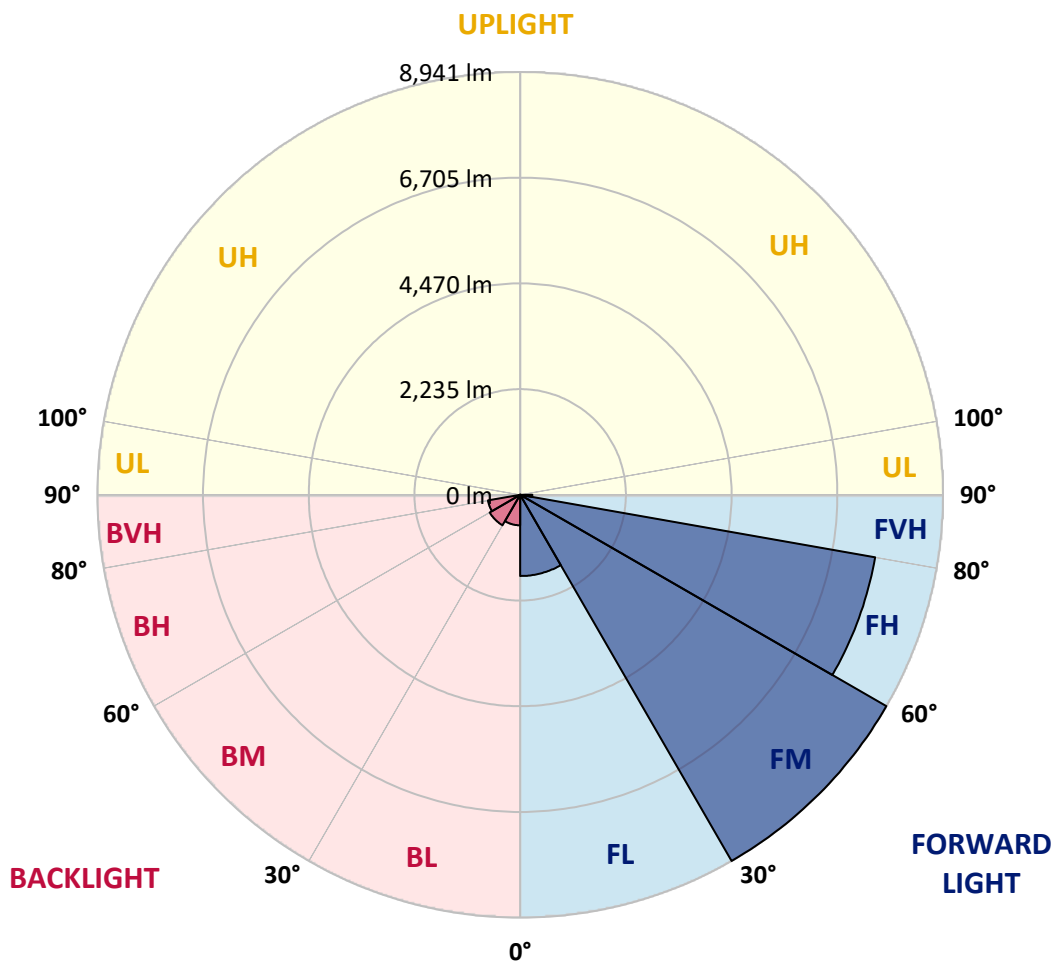
CATALOG NUMBER: NVN-AF-06-LED-U-SL2-7027-800-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1717.1	8.3			
FM (30°-60°)	8940.6	43.3			
FH (60°-80°)	7621.5	36.9			G4/12000
FVH (80°-90°)	258.3	1.3			G3/500
BL (0°-30°)	644.8	3.1	B2/1000		
BM (30°-60°)	744.0	3.6	B1/1000		
BH (60°-80°)	690.3	3.3	B2/1000		G2/1000
BVH (80°-90°)	10.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





REPORT NUMBER: P271149

CATALOG NUMBER: NVN-AF-06-LED-U-SL2-7027-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5
2.5°	4833.5	4836.7	4835.0	4840.0	4836.7	4812.4	4786.4	4731.6	4736.4	4665.1	4585.8
5°	4493.4	4521.0	4548.5	4576.1	4642.4	4700.7	4770.3	4786.4	4786.4	4725.1	4608.5
7.5°	4146.9	4148.6	4179.4	4216.6	4305.5	4412.5	4574.3	4720.1	4723.4	4739.5	4611.7
10°	3886.2	3894.3	3915.4	3955.9	4044.9	4150.2	4331.4	4559.8	4577.7	4697.4	4579.3
12.5°	3683.8	3693.6	3716.2	3763.2	3844.1	3952.6	4143.7	4404.4	4428.6	4657.1	4569.6
15°	3528.4	3541.3	3559.2	3606.1	3693.6	3808.5	4017.4	4300.7	4329.9	4640.9	4600.3
17.5°	3463.5	3463.5	3462.0	3494.3	3581.8	3698.4	3917.0	4245.7	4282.9	4653.8	4652.1
20°	3491.2	3486.2	3452.2	3444.1	3497.6	3614.2	3837.6	4210.0	4252.1	4678.1	4715.4
22.5°	3636.9	3627.1	3551.0	3487.8	3471.7	3549.5	3784.2	4185.8	4236.0	4728.3	4799.5
25°	3946.2	3917.0	3811.8	3669.2	3541.3	3533.3	3747.0	4172.8	4226.3	4786.4	4891.8
27.5°	4347.6	4339.6	4171.2	3980.1	3734.1	3586.7	3735.6	4163.1	4216.6	4828.6	4966.3
30°	4846.4	4849.7	4655.3	4405.9	4033.6	3737.3	3771.3	4158.3	4213.3	4831.9	4998.7
32.5°	5361.4	5364.6	5202.7	4935.5	4443.2	3996.3	3871.6	4180.9	4231.1	4818.9	4997.0
35°	5856.9	5861.7	5764.6	5549.2	4990.5	4355.8	4061.1	4258.7	4294.3	4827.0	4993.8
37.5°	6483.4	6502.9	6383.1	6182.3	5677.1	4883.6	4370.3	4415.7	4444.9	4893.3	5018.1
40°	7552.2	7526.3	7183.0	6843.0	6422.1	5526.6	4817.3	4686.2	4695.9	5065.1	5110.4
42.5°	8797.5	8765.0	8177.4	7591.0	7187.9	6302.1	5388.9	5100.7	5099.0	5353.3	5311.1
45°	9869.4	9849.9	9231.4	8449.3	8036.3	7158.8	6093.3	5698.2	5678.7	5852.0	5677.1
47.5°	10630.5	10614.3	10146.3	9362.6	9017.6	8101.2	6972.6	6512.6	6472.2	6504.5	6271.3
50°	10704.9	10687.1	10523.6	10020.0	10164.1	9483.9	8059.1	7579.8	7527.9	7477.8	7170.1
52.5°	10008.6	10006.9	10092.8	10060.5	10967.2	11263.6	9391.7	8899.5	8838.0	8710.0	8404.0
55°	8585.3	8577.2	8902.7	9375.5	10949.4	13099.9	11423.8	10470.1	10389.2	10133.3	9731.8
57.5°	6273.0	6231.0	6911.0	7913.3	10180.3	13903.0	14651.0	12421.4	12286.9	11475.7	10857.2
60°	3463.5	3479.8	4354.2	5541.1	8358.5	13744.2	17620.9	14696.5	14343.3	12633.5	12010.1
62.5°	1941.4	1982.0	2632.9	3601.2	5328.9	12456.9	19214.1	18611.8	17761.6	13983.9	13467.4
65°	1468.6	1493.0	1820.1	2778.6	3360.0	8705.1	19468.3	24086.6	23353.0	16030.7	15787.8
67.5°	1382.9	1402.3	1562.6	2304.2	3060.3	4514.5	17554.4	27325.1	27417.3	18822.2	17585.2
68°	1392.6	1416.8	1577.2	2216.7	3055.6	4038.4	16738.3	27341.3	27537.2	19272.4	17523.6
70°	1279.2	1285.7	1667.9	2174.6	2961.6	3181.8	12108.9	25467.7	25819.2	19808.3	15907.6
72.5°	488.9	490.7	748.1	1883.1	3102.4	3199.7	6099.8	20129.0	20146.8	17238.7	12401.9
75°	254.2	213.7	234.7	589.4	2963.2	3118.6	3060.3	13744.2	13658.5	11658.7	7599.2
77.5°	174.9	148.9	157.1	204.1	1232.3	3117.1	2210.3	7903.6	7885.9	4959.8	2168.1
80°	98.8	85.8	94.0	171.7	432.4	2926.0	2059.8	3397.2	3201.3	871.1	351.3
82.5°	50.1	42.1	50.1	144.1	268.9	1841.0	2003.0	1332.6	1186.9	207.2	228.3
85°	12.9	12.9	24.3	100.4	166.7	604.0	1795.7	961.8	864.7	90.6	162.0
87.5°	3.2	1.5	9.7	37.2	59.8	131.2	995.9	536.0	461.5	46.9	94.0
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: P271149

CATALOG NUMBER: NVN-AF-06-LED-U-SL2-7027-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5	4595.5
2.5°	4553.4	4508.1	4418.9	4318.5	4247.4	4169.7	4124.3	4069.2	4027.1	3989.8	4017.4
5°	4537.2	4449.8	4252.1	4030.3	3844.1	3666.1	3533.3	3406.9	3311.4	3251.4	3275.8
7.5°	4495.1	4365.6	4044.9	3698.4	3393.9	3107.3	2874.1	2665.4	2503.3	2415.9	2443.5
10°	4423.9	4240.9	3810.2	3329.2	2903.3	2498.5	2152.0	1841.0	1606.3	1496.1	1522.1
12.5°	4372.1	4130.8	3567.2	2973.0	2412.7	1837.8	1378.0	1021.7	838.7	728.6	738.3
15°	4349.4	4044.9	3340.5	2597.3	1876.6	1180.5	744.9	539.3	476.0	453.4	455.0
17.5°	4352.6	3976.8	3125.2	2207.0	1335.9	678.5	456.6	411.3	401.6	396.7	396.7
20°	4360.6	3908.9	2901.7	1800.7	854.9	437.1	380.5	366.0	361.1	354.7	356.3
22.5°	4384.9	3857.1	2676.6	1392.6	526.2	356.3	336.9	323.8	315.8	306.1	307.7
25°	4422.1	3818.2	2454.8	1002.2	370.8	311.0	293.0	275.3	260.7	249.4	250.9
27.5°	4444.9	3763.2	2218.4	683.3	307.7	272.0	247.8	223.5	207.2	197.5	195.9
30°	4428.6	3674.1	1949.6	448.6	272.0	234.7	205.6	178.1	162.0	153.8	153.8
32.5°	4384.9	3559.2	1653.3	327.2	241.3	202.4	166.7	142.6	131.2	126.3	127.9
35°	4334.7	3439.3	1337.4	276.9	217.0	171.7	136.1	116.6	111.7	110.1	110.1
37.5°	4307.3	3335.6	1034.7	250.9	194.4	142.6	111.7	100.4	95.5	95.5	95.5
40°	4337.9	3256.4	766.0	231.6	171.7	118.1	94.0	85.8	84.3	84.3	84.3
42.5°	4469.2	3228.8	560.3	215.4	148.9	98.8	80.9	74.5	72.9	74.5	74.5
45°	4725.1	3288.8	424.3	199.2	127.9	80.9	69.6	64.8	64.8	66.4	66.4
47.5°	5159.0	3442.6	348.2	183.0	106.9	68.0	59.8	56.7	56.7	58.3	58.3
50°	5832.5	3727.5	312.5	165.2	89.0	58.3	50.1	48.6	48.6	50.1	51.8
52.5°	6856.0	4270.1	294.7	147.3	72.9	48.6	42.1	40.5	42.1	43.7	43.7
55°	7994.2	4964.7	273.7	129.5	61.5	40.5	34.0	34.0	35.7	38.8	38.8
57.5°	9054.8	5635.0	254.2	106.9	53.4	32.3	27.5	27.5	30.7	34.0	34.0
60°	10175.5	6292.4	228.3	85.8	45.4	26.0	22.6	22.6	27.5	30.7	32.3
62.5°	11559.8	7056.7	194.4	68.0	35.7	19.5	16.2	21.0	26.0	30.7	30.7
65°	13561.4	8007.2	152.3	53.4	27.5	14.6	12.9	19.5	24.3	29.1	30.7
67.5°	14288.4	7885.9	115.0	43.7	21.0	11.3	11.3	17.7	24.3	29.1	29.1
68°	14022.8	7620.2	110.1	42.1	19.5	11.3	11.3	17.7	24.3	29.1	29.1
70°	12218.9	6229.2	90.6	32.3	16.2	9.7	9.7	16.2	24.3	27.5	29.1
72.5°	9148.8	4138.9	77.8	21.0	14.6	9.7	8.1	16.2	22.6	27.5	27.5
75°	5248.0	1718.1	66.4	16.2	12.9	8.1	8.1	14.6	22.6	27.5	27.5
77.5°	1483.2	401.6	53.4	12.9	11.3	8.1	6.5	14.6	21.0	26.0	26.0
80°	272.0	119.8	42.1	11.3	9.7	8.1	6.5	14.6	21.0	26.0	26.0
82.5°	179.8	56.7	30.7	11.3	9.7	8.1	6.5	12.9	19.5	24.3	24.3
85°	134.3	40.5	19.5	11.3	9.7	8.1	6.5	12.9	19.5	24.3	24.3
87.5°	74.5	17.7	14.6	12.9	11.3	8.1	6.5	11.3	17.7	22.6	22.6
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)