

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: P196149

Luminaire Tested: **NVN-AF-03-LED-U-SL3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P196149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-03-LED-U-SL3-1200
Description: NAVION ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20300.4 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G4

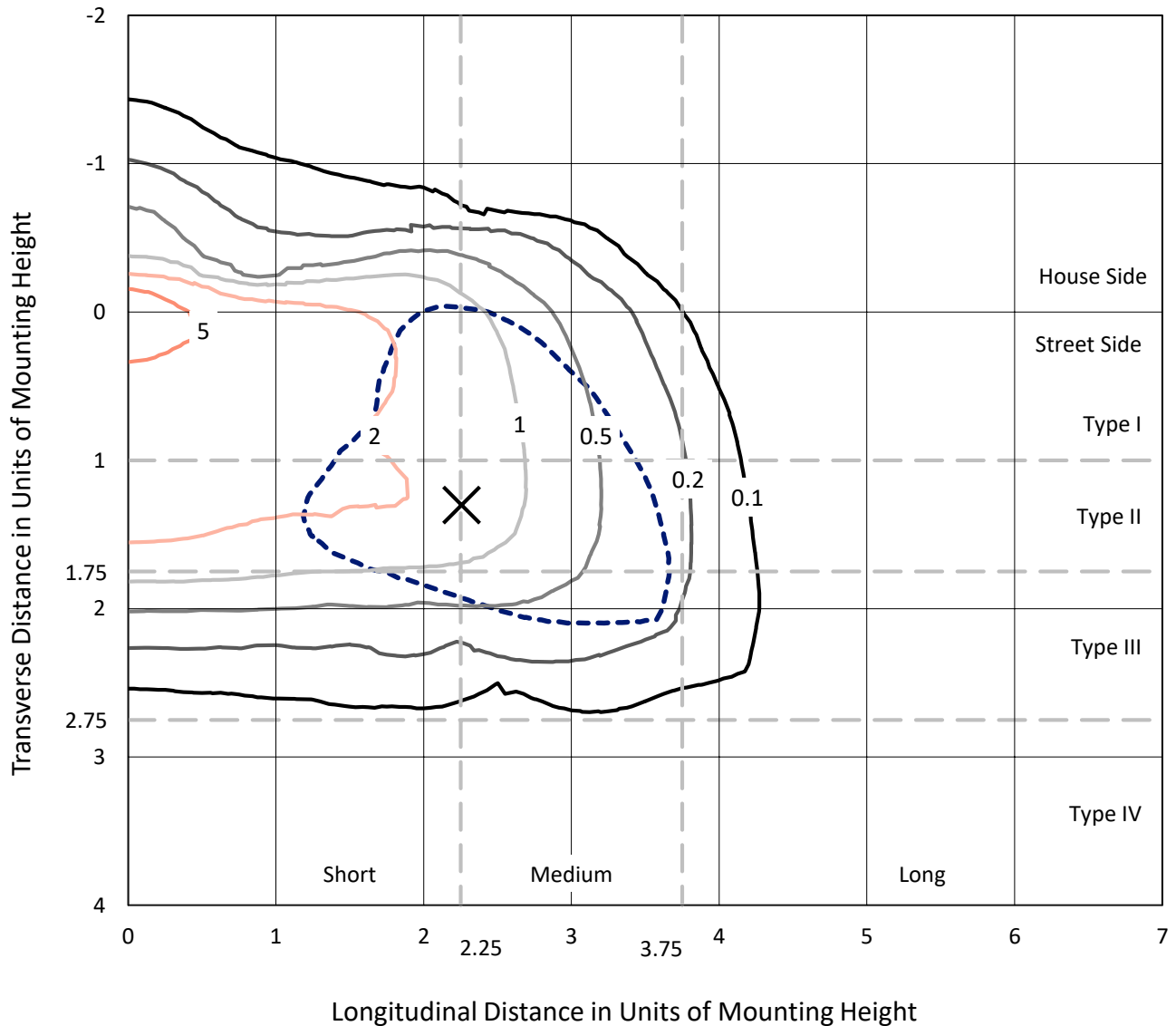
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

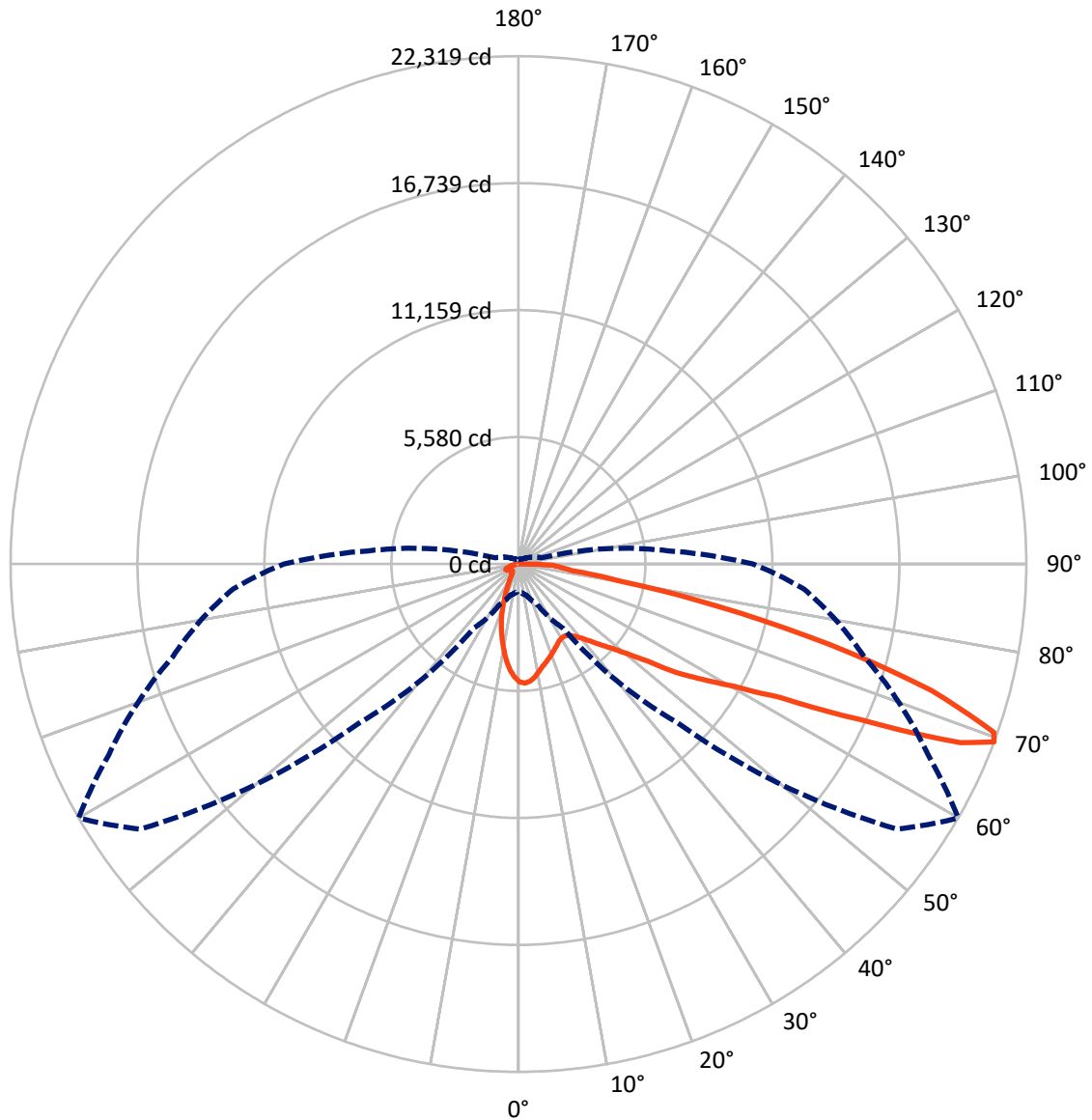
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2895.5	0.0	2895.5
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	17404.9	0.0	17404.9
	% Fixture	85.7	0.0	85.7
Total	Lumens	20300.4	0.0	20300.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.4	2.2
10°-20°	940.8	4.6
20°-30°	1200.2	5.9
30°-40°	1651.6	8.1
40°-50°	2675.3	13.2
50°-60°	4198.8	20.7
60°-70°	5597.7	27.6
70°-80°	3113.6	15.3
80°-90°	482.9	2.4
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°	20300.4	100.0
0°-180°	20300.4	100.0

Coefficient of Utilization



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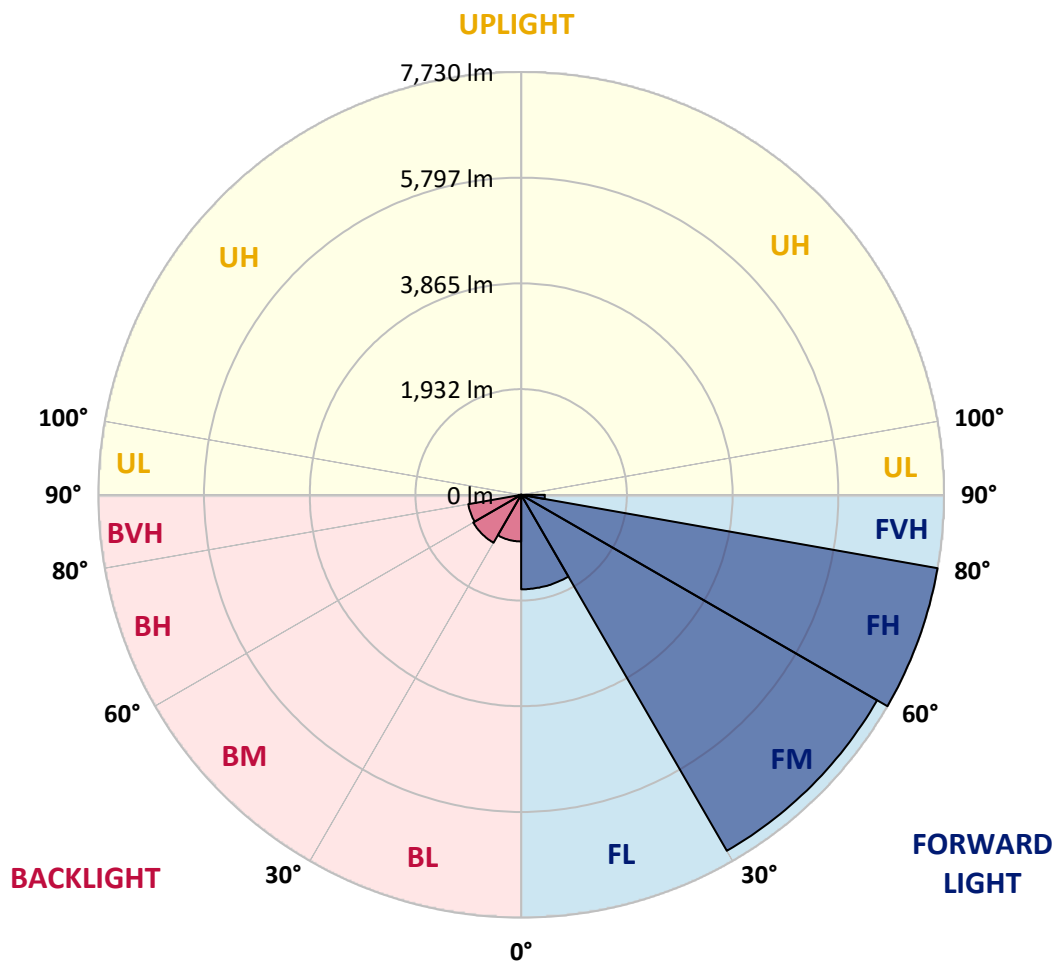
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1727.2	8.5			
FM	(30°-60°)	7514.2	37.0			
FH	(60°-80°)	7729.6	38.1			G4/12000
FVH	(80°-90°)	434.0	2.1			G3/500
BL	(0°-30°)	853.3	4.2	B2/1000		
BM	(30°-60°)	1011.5	5.0	B2/2500		
BH	(60°-80°)	981.7	4.8	B2/1000		G2/1000
BVH	(80°-90°)	48.9	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5179.7	5179.7	5179.7	5179.7	5179.7	5179.7	5179.7	5179.7	5179.7	5179.7	5179.7
2.5°	5317.7	5332.0	5332.0	5320.4	5313.8	5276.1	5254.0	5238.3	5211.0	5160.2	5114.7
5°	5127.6	5155.0	5166.7	5171.9	5205.8	5194.0	5195.4	5184.9	5161.5	5106.9	5032.6
7.5°	4778.8	4784.0	4804.8	4840.0	4921.9	4979.2	5026.2	5035.3	5030.1	4989.6	4885.5
10°	4435.1	4444.2	4469.0	4528.8	4607.0	4689.0	4790.5	4832.1	4863.4	4850.4	4718.9
12.5°	4150.0	4151.3	4178.7	4247.7	4334.9	4437.8	4575.7	4640.8	4715.0	4745.0	4597.9
15°	3875.3	3893.6	3919.6	4002.9	4110.9	4241.2	4400.0	4489.8	4587.4	4673.4	4504.2
17.5°	3667.1	3681.4	3697.0	3766.0	3891.0	4053.7	4250.3	4346.6	4475.5	4607.0	4407.8
20°	3552.5	3557.7	3546.1	3579.8	3685.3	3861.0	4088.8	4204.7	4358.3	4543.1	4308.9
22.5°	3529.1	3529.1	3486.1	3479.7	3526.5	3674.8	3922.2	4064.1	4251.6	4498.9	4220.3
25°	3638.4	3630.7	3549.9	3475.7	3458.8	3534.3	3763.4	3937.8	4160.4	4497.6	4153.9
27.5°	3845.4	3835.0	3734.8	3609.8	3501.8	3469.2	3641.0	3819.4	4088.8	4541.9	4120.1
30°	4103.2	4099.3	3997.7	3841.5	3663.2	3495.2	3592.9	3758.2	4040.7	4623.8	4118.8
32.5°	4385.7	4367.4	4305.0	4148.7	3917.0	3639.8	3621.6	3760.8	4027.7	4743.6	4148.7
35°	4686.3	4673.4	4657.7	4500.2	4239.8	3894.9	3747.8	3850.6	4091.5	4910.3	4233.4
37.5°	5069.0	5054.7	5080.8	4908.9	4623.8	4229.4	3961.3	4030.2	4221.6	5152.4	4390.8
40°	5749.9	5708.3	5635.3	5371.1	5071.7	4639.5	4269.8	4280.2	4444.2	5476.6	4643.4
42.5°	6868.1	6734.1	6373.5	5887.9	5544.2	5116.0	4672.0	4622.6	4751.4	5904.8	5010.5
45°	7988.9	7838.0	7228.7	6451.5	6033.7	5627.6	5169.3	5050.8	5134.2	6403.4	5483.0
47.5°	8712.7	8638.5	7951.2	7015.2	6546.6	6184.7	5738.1	5543.0	5602.8	6968.3	6066.2
50°	8924.9	8861.1	8320.9	7456.5	7030.8	6857.7	6442.4	6183.4	6193.8	7628.3	6765.3
52.5°	8766.1	8740.1	8382.1	7729.9	7476.0	7567.2	7417.4	7056.8	6971.0	8352.1	7522.9
55°	8553.9	8563.0	8425.0	8004.6	7929.1	8228.4	8693.2	8402.9	8038.4	9105.9	8311.8
57.5°	7886.1	7892.6	8254.5	8527.8	8793.4	9155.3	9686.4	9564.1	9139.7	9919.5	9195.7
60°	6350.0	6400.8	7206.6	8419.8	9781.5	10981.7	11111.9	10901.0	10311.2	10856.7	10345.1
62.5°	4536.7	4582.2	5515.5	7309.4	9665.7	13048.9	13744.1	12905.8	11900.7	12258.7	11962.0
65°	2383.6	2375.7	3098.2	5050.8	8141.3	13527.9	17891.5	16464.7	14578.5	14186.7	13524.0
67.5°	1331.7	1374.6	1654.5	2547.6	5306.0	11905.9	20540.5	20961.1	18301.5	15716.2	13456.3
69°	1231.4	1245.7	1433.3	1969.6	3458.8	9823.1	20312.7	22318.7	19871.4	15722.8	12589.4
70°	1196.3	1212.0	1382.5	1814.6	2905.6	8048.8	19483.5	22160.0	20252.9	15373.8	11800.6
72.5°	1072.7	1093.5	1258.8	1631.1	2448.6	4148.7	15694.1	18966.7	18345.8	13436.9	9150.1
75°	915.1	950.3	1200.2	1619.4	2319.7	2637.4	10466.2	14130.6	13654.2	9609.6	5191.5
77.5°	378.8	382.7	524.6	1185.9	2434.3	2524.1	5624.9	8950.9	7923.9	4213.8	1563.4
80°	264.2	259.0	261.7	346.3	1964.4	2541.0	2886.1	4552.2	3538.2	1111.7	731.6
82.5°	222.6	220.0	230.4	217.4	665.2	2883.4	2413.4	2373.1	1666.3	598.8	348.8
85°	147.1	143.2	188.7	197.8	316.3	2289.8	2595.7	1865.5	1241.9	320.2	148.4
87.5°	71.6	72.9	108.0	134.1	168.0	725.1	2486.4	1474.9	959.4	139.3	59.8
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°	5179.7	5179.7	5179.7	5179.7	5179.7	5179.7	5179.7	5179.7	5179.7	5179.7	5179.7
2.5°	5096.4	5057.4	5022.2	4978.0	4944.1	4915.5	4876.4	4875.1	4868.6	4877.7	4880.3
5°	4983.2	4918.0	4819.1	4708.4	4630.4	4527.6	4427.3	4393.5	4355.7	4351.8	4363.5
7.5°	4812.7	4711.1	4541.9	4372.6	4203.4	4030.2	3866.2	3783.0	3702.3	3677.5	3689.2
10°	4622.6	4493.7	4234.6	3958.7	3720.5	3462.7	3212.8	3051.4	2904.3	2841.8	2857.4
12.5°	4474.2	4310.1	3945.6	3587.7	3231.0	2861.3	2531.9	2213.1	1972.1	1864.1	1870.7
15°	4346.6	4137.0	3674.8	3198.5	2751.9	2245.6	1788.6	1418.9	1208.0	1130.0	1127.3
17.5°	4208.6	3954.7	3392.4	2836.5	2257.2	1631.1	1197.7	979.0	895.6	869.6	869.6
20°	4061.5	3767.3	3096.9	2442.1	1736.6	1139.1	900.8	816.2	785.0	777.1	775.8
22.5°	3924.9	3583.8	2800.1	2021.7	1256.2	864.4	766.7	734.2	729.0	735.5	735.5
25°	3816.7	3422.4	2499.4	1579.0	913.8	723.7	682.1	678.2	697.8	721.2	725.1
27.5°	3736.0	3277.8	2202.6	1153.4	718.6	630.0	615.7	632.7	678.2	725.1	734.2
30°	3680.1	3154.2	1847.2	829.2	598.8	552.0	558.4	588.4	657.3	729.0	748.5
32.5°	3655.3	3053.9	1489.2	636.6	511.6	485.6	502.5	541.6	613.2	684.8	708.2
35°	3678.8	2981.1	1158.6	528.6	447.8	428.3	447.8	488.2	535.0	570.2	584.5
37.5°	3763.4	2955.0	872.2	468.6	406.1	386.7	402.2	429.5	450.4	463.4	469.9
40°	3941.7	2982.3	683.4	437.4	382.7	360.6	364.5	377.5	391.8	402.2	403.6
42.5°	4225.5	3072.1	607.9	425.6	368.4	339.7	333.3	342.4	358.0	372.4	374.9
45°	4603.1	3221.9	600.1	429.5	361.9	322.8	309.9	319.0	339.7	363.1	367.1
47.5°	5091.2	3458.8	636.6	450.4	365.8	313.7	294.2	303.3	330.6	361.9	367.1
50°	5669.2	3786.9	704.3	481.6	384.0	313.7	287.7	295.5	324.2	359.3	364.5
52.5°	6350.0	4243.7	774.6	512.9	410.1	325.4	290.3	289.0	315.1	347.6	354.0
55°	7101.1	4811.3	842.2	540.2	424.4	341.1	296.8	281.2	302.0	328.1	333.3
57.5°	7985.1	5588.5	960.7	566.3	432.2	352.8	304.6	273.3	285.1	303.3	307.2
60°	9184.0	6730.1	1191.1	610.5	446.5	358.0	306.0	265.6	264.2	277.3	278.5
62.5°	10747.4	8067.1	1411.2	662.6	475.2	359.3	300.7	260.3	247.3	251.2	251.2
65°	11859.1	8559.1	1347.3	706.9	501.1	358.0	295.5	256.5	234.4	227.8	227.8
67.5°	11226.5	7560.6	1144.3	718.6	503.8	343.7	283.8	247.3	222.6	206.9	206.9
69°	10296.9	6627.3	1050.6	697.8	482.9	326.7	270.8	238.2	214.8	196.6	196.6
70°	9539.3	5920.4	993.3	673.0	458.2	312.4	259.0	229.1	206.9	191.4	190.1
72.5°	7122.0	3950.8	848.7	580.6	376.2	264.2	226.5	204.4	186.2	175.7	175.7
75°	3758.2	1980.0	695.1	473.8	290.3	210.9	186.2	171.9	161.4	160.1	158.9
77.5°	1231.4	895.6	499.9	356.7	213.5	164.0	148.4	139.3	138.0	143.2	143.2
80°	665.2	535.0	321.5	240.8	148.4	122.3	114.6	113.2	117.1	125.0	125.0
82.5°	322.8	264.2	191.4	148.4	101.6	89.8	89.8	91.1	96.4	105.5	105.5
85°	139.3	125.0	110.7	83.3	62.5	56.0	63.8	70.3	74.2	80.7	83.3
87.5°	66.4	58.6	50.7	32.5	27.3	28.6	33.9	41.6	49.5	54.6	56.0
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)