

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: P271079

Luminaire Tested: **NVN-AF-05-LED-U-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-05-LED-U-SL3-7027-1200-HSS
Description: NAVION ROADWAY AND AREA LUMINAIRE
(5) 70 CRI, 2700K, 1200mA 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: 24327 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - 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

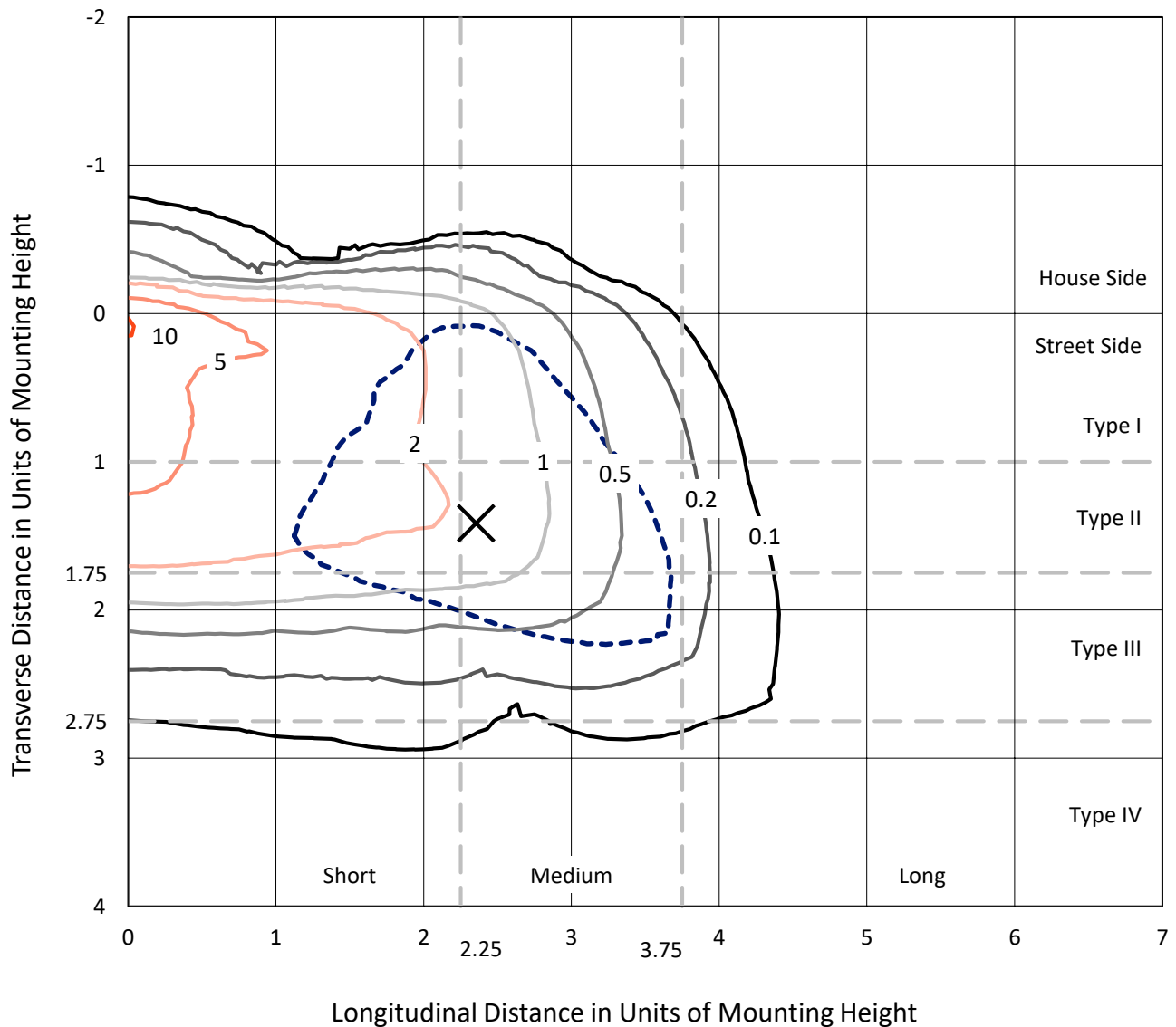


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

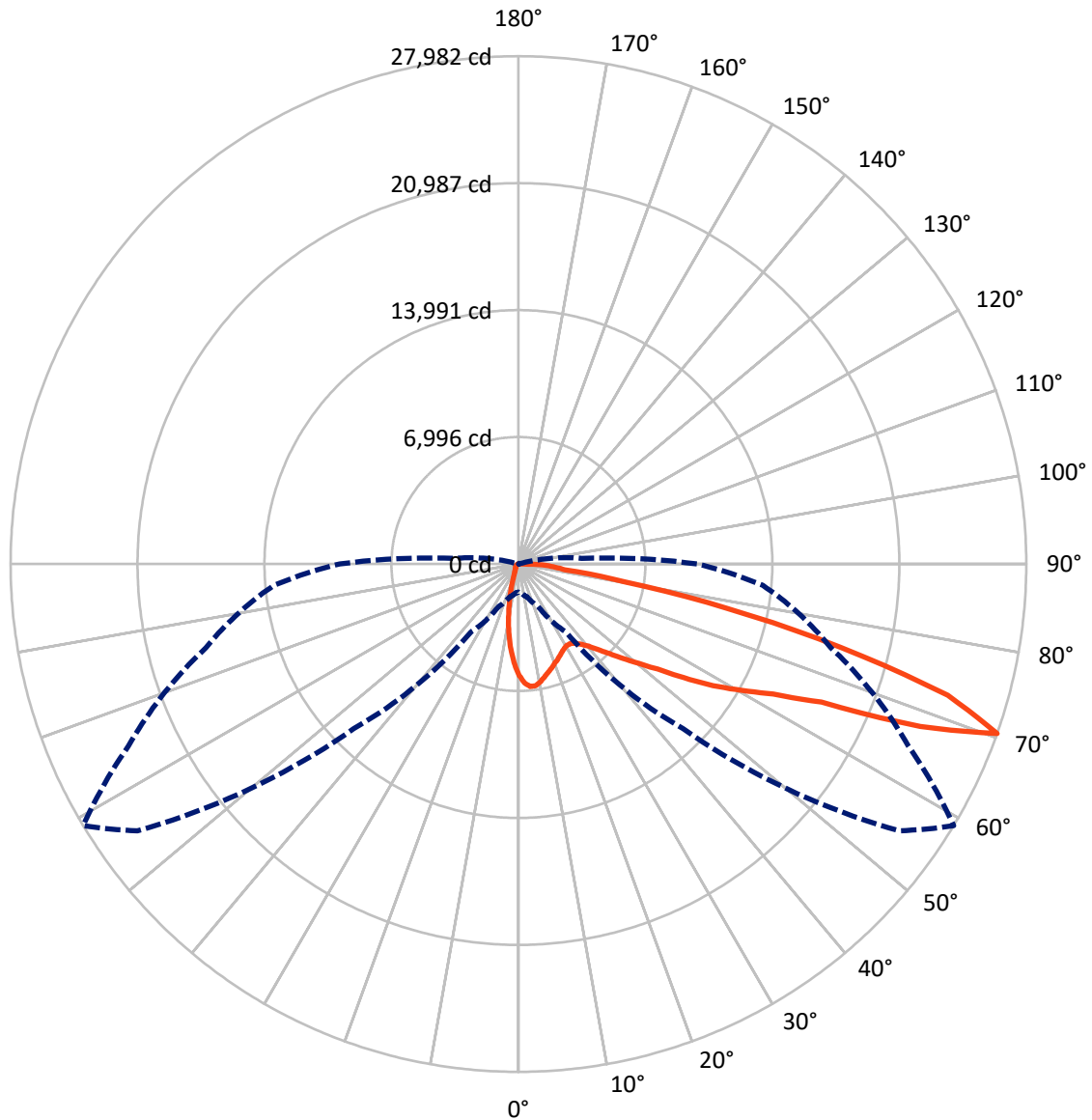


Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1870.1	0.0	1870.1
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	22456.9	0.0	22456.9
	% Fixture	92.3	0.0	92.3
Total	Lumens	24327.0	0.0	24327.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.8	2.1
10°-20°	1060.9	4.4
20°-30°	1436.2	5.9
30°-40°	2072.6	8.5
40°-50°	3442.2	14.1
50°-60°	5265.2	21.6
60°-70°	6548.7	26.9
70°-80°	3620.1	14.9
80°-90°	375.4	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°	24327.0	100.0
0°-180°	24327.0	100.0



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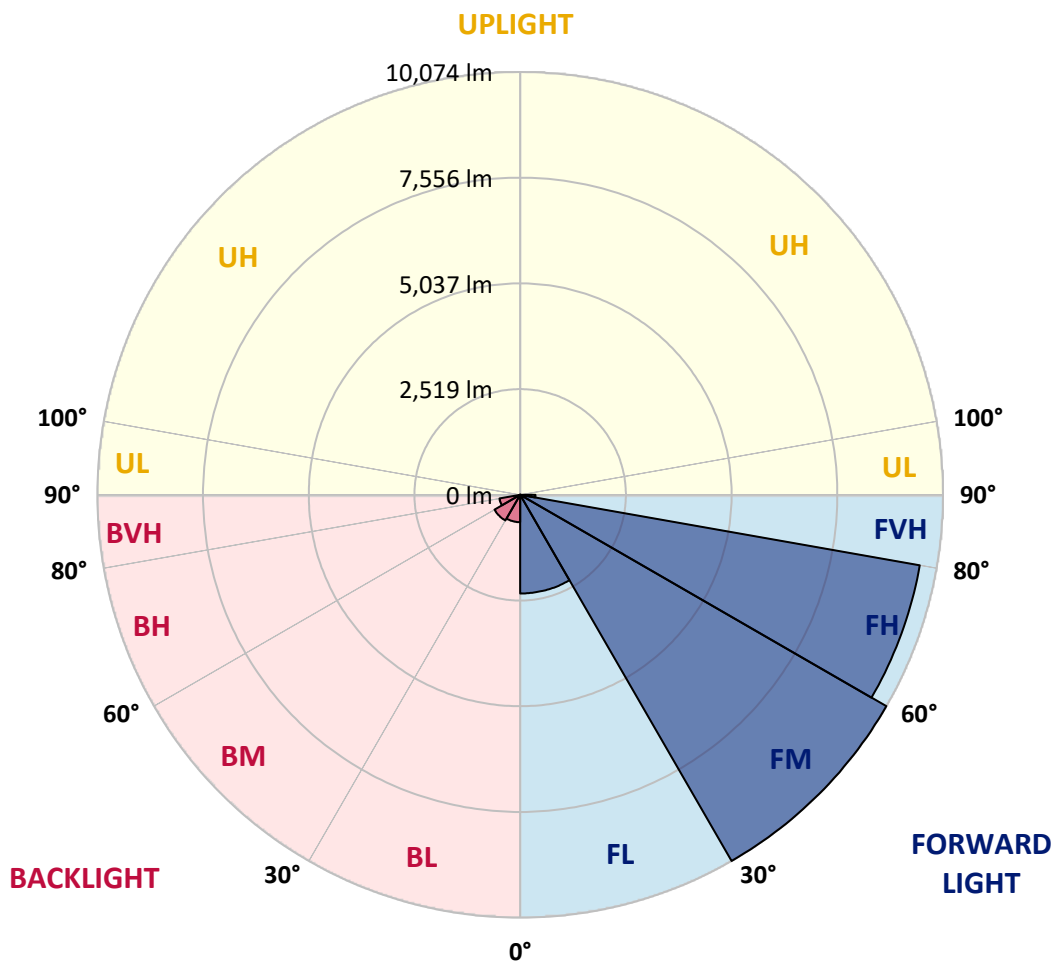
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2351.3	9.7			
FM	(30°-60°)	10074.1	41.4			
FH	(60°-80°)	9667.0	39.7			G4/12000
FVH	(80°-90°)	364.5	1.5			G3/500
BL	(0°-30°)	651.7	2.7	B2/1000		
BM	(30°-60°)	705.9	2.9	B1/1000		
BH	(60°-80°)	501.7	2.1	B2/1000		G2/1000
BVH	(80°-90°)	10.8	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5
2.5°	6953.4	6942.5	6896.5	6887.3	6835.9	6733.2	6614.0	6566.3	6469.0	6314.7	6144.0
5°	7069.0	7074.5	7078.1	7058.1	7050.6	6966.3	6834.0	6777.3	6646.9	6393.6	6081.6
7.5°	6635.9	6650.6	6696.4	6716.6	6804.8	6837.8	6810.2	6773.5	6670.8	6371.7	5933.0
10°	6178.9	6206.5	6256.1	6289.0	6397.3	6485.5	6597.3	6606.6	6584.5	6298.2	5766.0
12.5°	5786.3	5811.9	5867.0	5933.0	6043.2	6157.0	6323.9	6382.6	6456.1	6250.5	5646.7
15°	5448.6	5455.9	5509.1	5591.7	5736.7	5892.6	6090.9	6177.1	6320.2	6232.3	5554.9
17.5°	5153.0	5155.0	5189.8	5265.1	5441.3	5646.7	5878.0	5991.8	6173.4	6206.5	5474.2
20°	4958.6	4956.8	4958.6	4999.0	5155.0	5399.1	5679.9	5799.1	6032.2	6175.3	5391.6
22.5°	4892.4	4883.4	4841.1	4826.5	4925.5	5140.2	5476.1	5632.1	5905.5	6166.1	5331.1
25°	4973.2	4967.7	4877.8	4793.4	4802.6	4936.5	5268.6	5459.5	5806.5	6199.2	5316.3
27.5°	5233.9	5222.8	5085.1	4920.0	4815.5	4839.3	5114.6	5314.6	5727.6	6280.0	5336.7
30°	5575.2	5576.9	5430.3	5230.2	4984.2	4848.4	5031.9	5220.9	5674.2	6401.1	5380.7
32.5°	5955.0	5953.2	5848.7	5617.5	5303.7	5017.4	5068.6	5228.3	5681.6	6578.9	5465.1
35°	6347.9	6327.7	6292.7	6089.0	5722.1	5312.8	5235.7	5353.1	5758.8	6814.0	5608.2
37.5°	6801.1	6793.7	6828.6	6614.0	6239.4	5747.6	5529.2	5608.2	5953.2	7160.7	5839.4
40°	7522.2	7482.0	7498.4	7206.7	6823.0	6333.1	5940.4	5960.6	6263.3	7619.6	6204.7
42.5°	8896.9	8733.5	8427.0	7880.1	7465.4	6982.7	6478.0	6443.3	6702.0	8175.6	6685.5
45°	10539.3	10352.1	9579.4	8623.4	8107.7	7680.1	7142.5	7048.8	7241.4	8838.1	7305.7
47.5°	11910.1	11708.2	10684.3	9399.7	8761.0	8399.5	7878.2	7768.3	7887.5	9607.1	8050.8
50°	12378.0	12266.1	11367.0	10045.7	9419.8	9207.0	8801.4	8617.9	8647.3	10436.5	8920.7
52.5°	12163.4	12124.9	11522.9	10487.9	10029.0	10098.8	9812.5	9619.9	9586.8	11343.1	9882.3
55°	11710.0	11691.7	11398.1	10733.8	10566.9	10915.5	11231.1	11064.2	10752.2	12306.5	10677.0
57.5°	11062.3	11132.1	11343.1	11207.3	11227.5	11777.9	12548.8	12635.0	12168.9	13073.7	11266.1
60°	9331.8	9518.9	10486.0	11715.5	12656.9	13213.1	13960.0	14121.4	13369.0	13598.5	11946.7
62.5°	6898.4	7166.3	8544.5	10803.6	13444.4	15942.0	15837.4	15765.8	14514.3	14301.3	13185.5
65°	4052.1	4365.9	5531.1	8441.7	12257.0	17696.3	19342.5	18351.6	16259.4	15762.1	15158.3
67.5°	2018.8	2020.5	2547.1	4455.8	9058.2	16472.3	24459.0	23886.3	19970.1	17914.7	15936.4
70°	1552.5	1594.8	1884.7	2589.5	4580.5	12829.6	25631.6	27982.4	23699.2	17819.3	13521.4
72.5°	1315.7	1343.3	1677.3	2253.6	3424.3	7043.3	22188.9	24734.1	22614.6	15055.6	9966.8
75°	947.0	968.9	1484.5	2044.4	3152.8	3494.1	15220.7	18344.2	16967.7	10590.7	5485.3
77.5°	234.8	233.1	517.6	1659.0	2820.6	2910.6	8733.5	11763.3	9735.6	4336.5	1409.4
80°	104.7	100.9	117.5	348.7	2624.3	2747.2	3841.0	5940.4	3734.6	702.8	431.2
82.5°	73.4	69.8	73.4	128.5	877.3	2549.0	2321.5	2574.7	1367.2	240.3	183.6
85°	23.9	22.0	40.3	108.2	245.9	1469.9	2264.5	1923.2	1016.7	102.8	123.0
87.5°	3.7	3.7	14.7	58.7	71.5	489.9	1328.7	1332.4	457.0	60.5	55.1
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°	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5	6151.5
2.5°	6057.8	5949.6	5797.2	5644.9	5507.2	5365.9	5252.2	5199.0	5175.1	5142.1	5070.6
5°	5918.4	5722.1	5388.0	5059.6	4753.0	4459.5	4208.0	4064.9	3910.7	3903.3	3828.1
7.5°	5694.4	5415.5	4888.8	4378.7	3910.7	3463.0	3077.6	2828.0	2657.2	2550.8	2477.4
10°	5444.8	5087.0	4389.7	3672.1	3035.4	2437.1	1941.5	1618.6	1422.2	1323.2	1266.3
12.5°	5246.7	4797.0	3897.8	2994.9	2196.6	1510.3	1049.7	814.9	710.2	669.9	651.5
15°	5076.1	4531.1	3437.3	2389.3	1466.4	868.0	607.4	530.4	513.8	513.8	512.0
17.5°	4903.5	4274.0	2989.5	1794.8	923.1	568.8	478.9	467.9	469.9	475.4	475.4
20°	4740.1	4029.9	2558.3	1279.0	605.5	455.1	434.9	431.2	436.8	444.1	442.2
22.5°	4608.0	3815.3	2154.4	879.0	466.1	413.0	400.0	394.5	398.2	403.8	401.9
25°	4514.4	3631.8	1783.8	613.0	405.6	376.2	361.5	354.2	350.5	354.2	352.3
27.5°	4457.6	3477.6	1435.1	460.7	363.4	339.5	321.1	306.5	297.2	297.2	293.7
30°	4420.9	3332.6	1124.9	381.7	328.5	302.8	277.0	256.9	242.3	238.6	236.8
32.5°	4419.0	3207.8	840.5	337.7	295.5	266.1	234.8	209.2	192.6	189.1	187.1
35°	4464.9	3106.9	618.5	304.6	266.1	231.3	196.4	168.8	154.1	154.1	152.4
37.5°	4584.2	3048.2	467.9	279.0	242.3	201.8	165.2	139.4	126.7	130.3	130.3
40°	4806.2	3037.2	381.7	258.7	222.1	176.2	133.9	113.7	108.2	113.7	113.7
42.5°	5145.9	3095.9	339.5	244.1	203.6	150.5	112.0	97.2	95.4	100.9	100.9
45°	5588.0	3211.5	315.7	231.3	183.6	124.8	93.7	84.4	82.6	89.9	89.9
47.5°	6123.8	3367.4	293.7	216.5	163.3	102.8	79.0	71.5	71.5	79.0	80.8
50°	6758.8	3578.6	271.6	201.8	146.9	86.2	66.0	60.5	62.4	69.8	71.5
52.5°	7489.3	3837.3	251.4	189.1	128.5	69.8	55.1	51.5	53.2	60.5	62.4
55°	8118.7	4063.0	227.6	176.2	104.7	57.0	45.9	44.0	45.9	55.1	55.1
57.5°	8667.3	4279.5	205.5	155.9	82.6	45.9	36.7	36.7	40.3	49.5	51.5
60°	9396.0	4620.9	187.1	132.1	62.4	34.9	29.4	31.3	36.7	44.0	45.9
62.5°	10686.1	5200.7	163.3	110.1	45.9	27.5	23.9	25.7	33.1	42.2	44.0
65°	12301.0	5749.5	135.9	91.7	34.9	20.2	18.3	23.9	33.1	42.2	44.0
67.5°	12135.8	5000.8	106.4	73.4	25.7	16.4	14.7	22.0	31.3	42.2	44.0
70°	9841.9	3505.1	79.0	49.5	20.2	14.7	14.7	22.0	31.3	40.3	42.2
72.5°	6826.8	1950.8	60.5	33.1	18.3	14.7	12.8	20.2	29.4	40.3	42.2
75°	3248.2	598.2	47.7	23.9	16.4	12.8	11.0	20.2	29.4	40.3	42.2
77.5°	624.0	152.4	38.5	20.2	14.7	12.8	11.0	18.3	29.4	38.5	40.3
80°	211.0	67.9	31.3	18.3	14.7	12.8	11.0	18.3	27.5	36.7	38.5
82.5°	115.6	38.5	27.5	16.4	14.7	11.0	9.2	16.4	25.7	36.7	38.5
85°	89.9	27.5	22.0	16.4	14.7	11.0	9.2	16.4	25.7	34.9	36.7
87.5°	45.9	20.2	18.3	16.4	14.7	11.0	9.2	14.7	23.9	33.1	36.7
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)