

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: P197100

Luminaire Tested: **NVN-AF-06-LED-U-SL3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197100
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-06-LED-U-SL3-8030-800
Description: NAVION ROADWAY AND AREA LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 23718 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

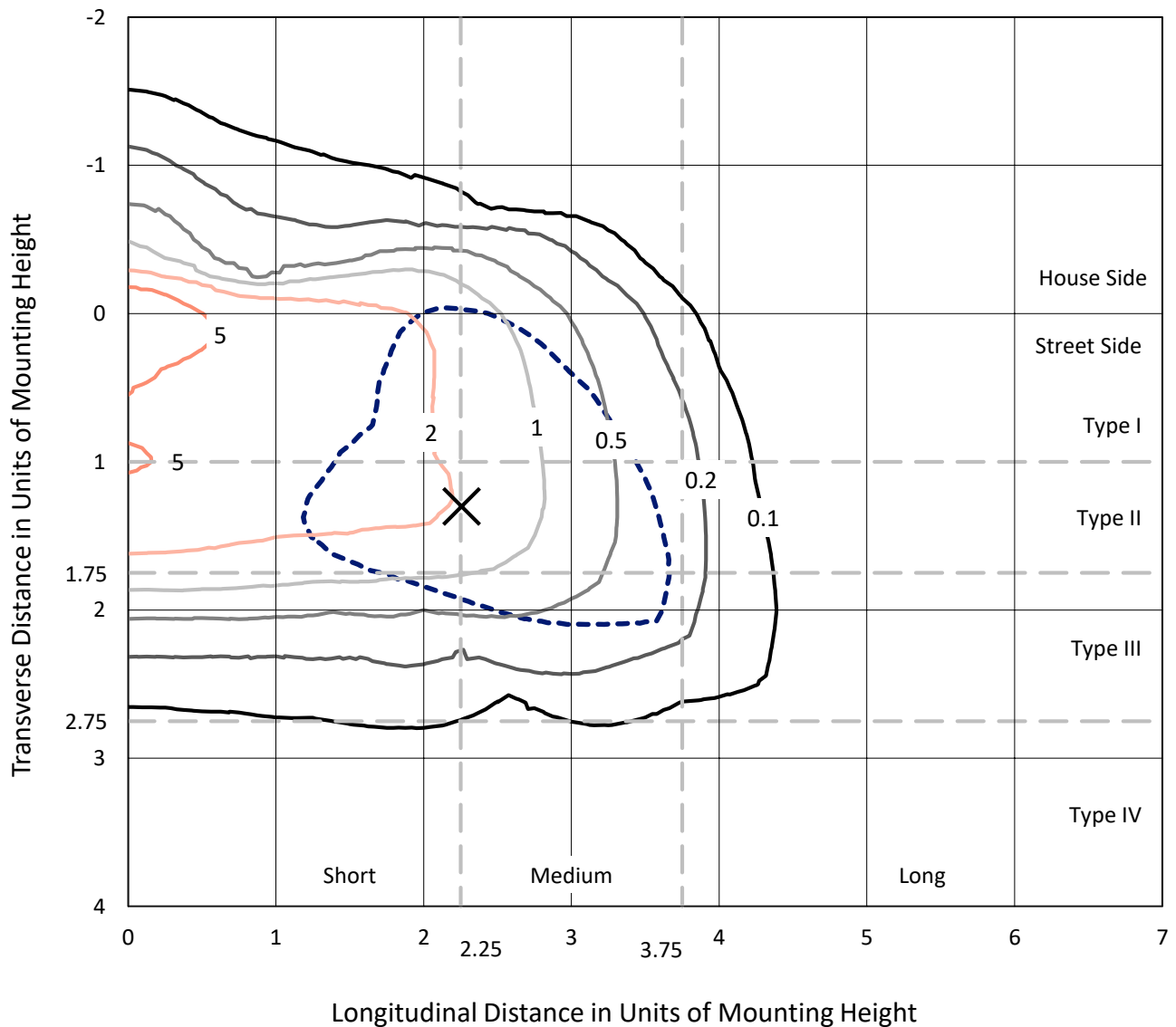
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

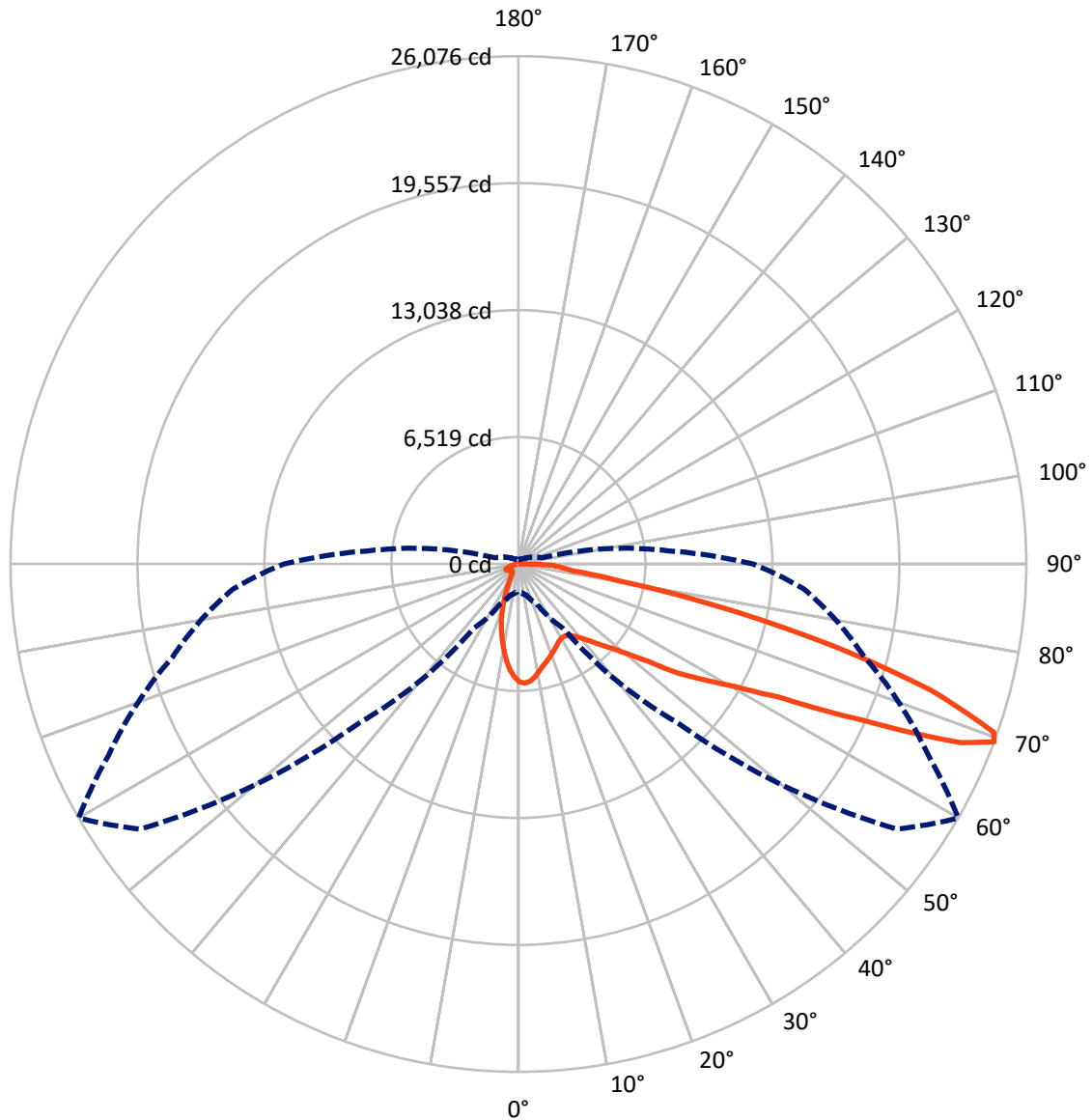
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	3383.0	0.0	3383.0
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	20335.0	0.0	20335.0
	% Fixture	85.7	0.0	85.7
Total	Lumens	23718.0	0.0	23718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.4	2.2
10°-20°	1099.2	4.6
20°-30°	1402.3	5.9
30°-40°	1929.7	8.1
40°-50°	3125.7	13.2
50°-60°	4905.6	20.7
60°-70°	6540.1	27.6
70°-80°	3637.8	15.3
80°-90°	564.2	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°	23718.0	100.0
0°-180°	23718.0	100.0

Coefficient of Utilization



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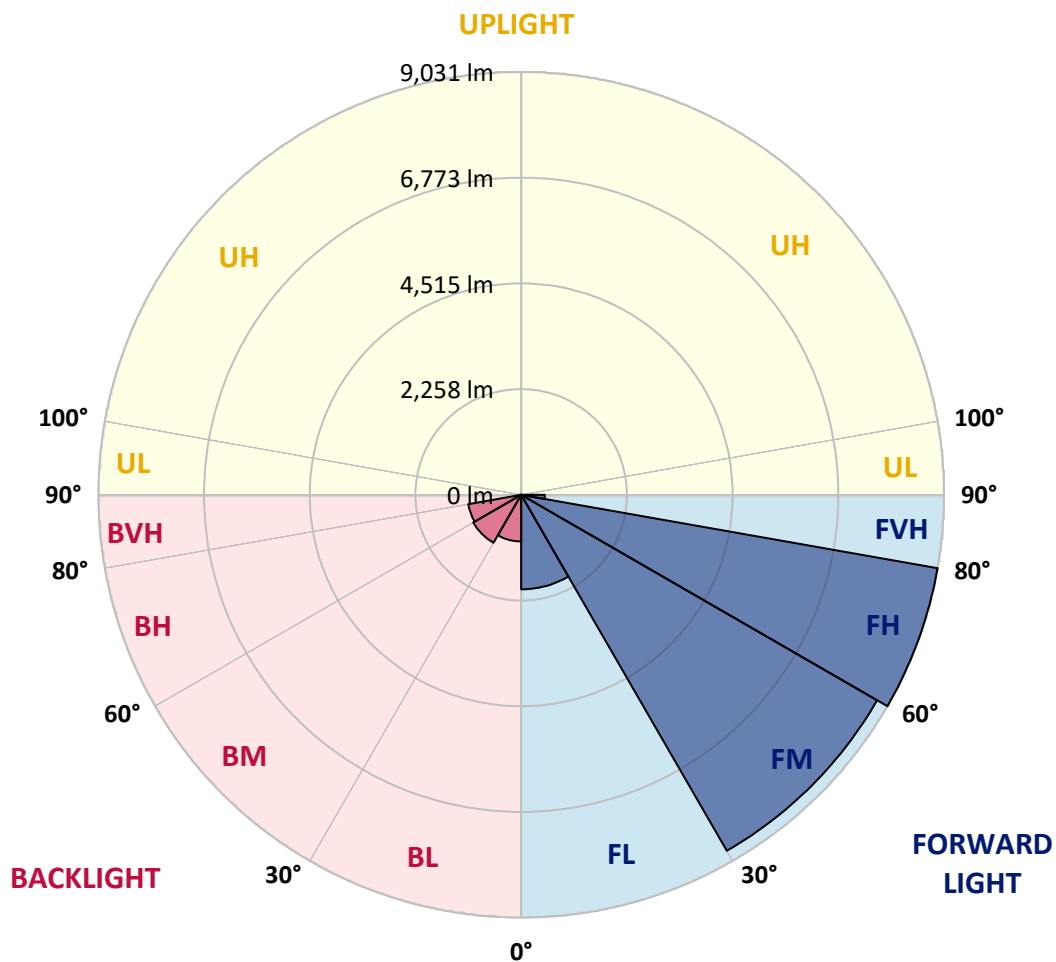
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2017.9	8.5			
FM	(30°-60°)	8779.2	37.0			
FH	(60°-80°)	9030.9	38.1			G4/12000
FVH	(80°-90°)	507.0	2.1			G4/750
BL	(0°-30°)	997.0	4.2	B2/1000		
BM	(30°-60°)	1181.8	5.0	B2/2500		
BH	(60°-80°)	1147.0	4.8	B3/2500		G3/2500
BVH	(80°-90°)	57.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7
2.5°	6212.9	6229.7	6229.7	6216.0	6208.4	6164.3	6138.4	6120.2	6088.2	6028.9	5975.7
5°	5990.9	6022.8	6036.5	6042.6	6082.1	6068.5	6070.0	6057.8	6030.4	5966.6	5879.9
7.5°	5583.3	5589.4	5613.7	5654.8	5750.6	5817.5	5872.3	5882.9	5876.8	5829.7	5708.0
10°	5181.8	5192.4	5221.3	5291.3	5382.5	5478.3	5597.0	5645.6	5682.1	5666.9	5513.3
12.5°	4848.7	4850.2	4882.1	4962.7	5064.6	5184.8	5346.0	5422.1	5508.8	5543.7	5371.9
15°	4527.8	4549.1	4579.5	4676.8	4803.1	4955.1	5140.7	5245.6	5359.7	5460.1	5262.4
17.5°	4284.4	4301.1	4319.4	4400.0	4546.0	4736.1	4965.8	5078.3	5228.9	5382.5	5149.8
20°	4150.6	4156.7	4143.0	4182.5	4305.7	4511.0	4777.2	4912.6	5092.0	5308.0	5034.2
22.5°	4123.2	4123.2	4073.0	4065.4	4120.2	4293.5	4582.5	4748.3	4967.3	5256.3	4930.8
25°	4251.0	4241.8	4147.5	4060.8	4041.1	4129.3	4397.0	4600.8	4860.8	5254.8	4853.2
27.5°	4492.8	4480.6	4363.5	4217.5	4091.3	4053.2	4254.0	4462.4	4777.2	5306.5	4813.7
30°	4793.9	4789.4	4670.7	4488.2	4279.9	4083.7	4197.7	4390.9	4720.9	5402.3	4812.2
32.5°	5124.0	5102.7	5029.7	4847.2	4576.4	4252.5	4231.2	4393.9	4705.7	5542.2	4847.2
35°	5475.3	5460.1	5441.8	5257.8	4953.6	4550.6	4378.7	4498.9	4780.2	5736.9	4946.0
37.5°	5922.4	5905.7	5936.1	5735.4	5402.3	4941.5	4628.1	4708.8	4932.3	6019.8	5130.0
40°	6717.9	6669.2	6584.0	6275.3	5925.5	5420.5	4988.6	5000.8	5192.4	6398.5	5425.1
42.5°	8024.4	7867.7	7446.4	6879.1	6477.6	5977.2	5458.6	5400.8	5551.3	6898.9	5854.0
45°	9333.9	9157.4	8445.6	7537.7	7049.4	6574.9	6039.6	5901.2	5998.5	7481.4	6406.1
47.5°	10179.5	10092.8	9289.8	8196.2	7648.7	7225.9	6704.2	6476.1	6546.0	8141.5	7087.5
50°	10427.4	10352.9	9721.7	8711.8	8214.5	8012.2	7527.0	7224.3	7236.5	8912.6	7904.2
52.5°	10241.8	10211.4	9793.2	9031.2	8734.6	8841.1	8666.2	8244.9	8144.5	9758.2	8789.4
55°	9993.9	10004.6	9843.4	9352.1	9263.9	9613.7	10156.7	9817.5	9391.7	10638.8	9711.0
57.5°	9213.7	9221.3	9644.1	9963.5	10273.8	10696.6	11317.1	11174.2	10678.3	11589.4	10743.7
60°	7419.0	7478.3	8419.8	9837.3	11428.2	12830.4	12982.5	12736.1	12047.2	12684.4	12086.7
62.5°	5300.4	5353.6	6444.1	8539.9	11292.8	15245.7	16057.8	15078.4	13904.2	14322.5	13975.7
65°	2784.8	2775.7	3619.8	5901.2	9511.8	15805.4	20903.5	19236.5	17032.7	16574.9	15800.8
67.5°	1555.9	1606.1	1933.1	2976.4	6199.3	13910.3	23998.5	24489.8	21382.6	18362.0	15721.7
69°	1438.8	1455.5	1674.5	2301.1	4041.1	11476.8	23732.4	26076.1	23216.8	18369.6	14708.8
70°	1397.7	1416.0	1615.2	2120.2	3394.7	9403.8	22763.5	25890.5	23662.4	17962.0	13787.1
72.5°	1253.2	1277.6	1470.7	1905.7	2860.8	4847.2	18336.2	22159.7	21434.3	15698.9	10690.5
75°	1069.2	1110.3	1402.3	1892.0	2710.3	3081.4	12228.2	16509.5	15952.9	11227.4	6065.4
77.5°	442.6	447.1	612.9	1385.6	2844.1	2949.1	6571.9	10457.8	9257.8	4923.2	1826.6
80°	308.7	302.7	305.7	404.6	2295.1	2968.8	3371.9	5318.6	4133.8	1298.9	854.8
82.5°	260.1	257.0	269.2	254.0	777.2	3368.8	2819.8	2772.6	1946.8	699.6	407.6
85°	171.9	167.3	220.5	231.2	369.6	2675.3	3032.7	2179.5	1451.0	374.1	173.4
87.5°	83.7	85.2	126.2	156.7	196.2	847.1	2904.9	1723.2	1120.9	162.7	70.0
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°	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7	6051.7
2.5°	5954.4	5908.8	5867.7	5816.0	5776.4	5743.0	5697.3	5695.8	5688.2	5698.9	5701.9
5°	5822.1	5746.0	5630.4	5501.2	5409.9	5289.7	5172.6	5133.1	5089.0	5084.4	5098.1
7.5°	5622.8	5504.2	5306.5	5108.8	4911.0	4708.8	4517.1	4419.8	4325.5	4296.6	4310.3
10°	5400.8	5250.2	4947.5	4625.1	4346.8	4045.6	3753.6	3565.0	3393.2	3320.2	3338.4
12.5°	5227.4	5035.8	4609.9	4191.6	3774.9	3343.0	2958.2	2585.6	2304.2	2178.0	2185.6
15°	5078.3	4833.5	4293.5	3736.9	3215.2	2623.6	2089.7	1657.8	1411.4	1320.2	1317.1
17.5°	4917.1	4620.5	3963.5	3314.1	2637.3	1905.7	1399.2	1143.7	1046.4	1016.0	1016.0
20°	4745.3	4401.5	3618.3	2853.2	2028.9	1330.8	1052.5	953.6	917.1	908.0	906.5
22.5°	4585.6	4187.1	3271.5	2362.0	1467.7	1009.9	895.8	857.8	851.7	859.3	859.3
25°	4459.3	3998.5	2920.2	1844.9	1067.7	845.6	797.0	792.4	815.2	842.6	847.1
27.5°	4365.0	3829.7	2573.4	1347.5	839.5	736.1	719.4	739.2	792.4	847.1	857.8
30°	4299.6	3685.2	2158.2	968.8	699.6	644.9	652.5	687.5	768.1	851.7	874.5
32.5°	4270.7	3568.1	1739.9	743.7	597.7	567.3	587.1	632.7	716.4	800.0	827.4
35°	4298.1	3482.9	1353.6	617.5	523.2	500.4	523.2	570.3	625.1	666.2	682.9
37.5°	4397.0	3452.5	1019.0	547.5	474.5	451.7	470.0	501.9	526.2	541.4	549.1
40°	4605.3	3484.4	798.5	511.0	447.1	421.3	425.9	441.1	457.8	470.0	471.5
42.5°	4936.9	3589.4	710.3	497.3	430.4	397.0	389.4	400.0	418.3	435.0	438.0
45°	5378.0	3764.3	701.1	501.9	422.8	377.2	362.0	372.6	397.0	424.3	428.9
47.5°	5948.3	4041.1	743.7	526.2	427.4	366.5	343.7	354.4	386.3	422.8	428.9
50°	6623.6	4424.3	822.8	562.7	448.7	366.5	336.1	345.2	378.7	419.8	425.9
52.5°	7419.0	4958.2	904.9	599.2	479.1	380.2	339.2	337.6	368.1	406.1	413.7
55°	8296.6	5621.3	984.0	631.2	495.8	398.5	346.8	328.5	352.9	383.3	389.4
57.5°	9329.3	6529.3	1122.4	661.6	504.9	412.2	355.9	319.4	333.1	354.4	358.9
60°	10730.1	7863.1	1391.6	713.3	521.7	418.3	357.4	310.3	308.7	324.0	325.5
62.5°	12556.7	9425.1	1648.7	774.1	555.1	419.8	351.3	304.2	289.0	293.5	293.5
65°	13855.5	10000.0	1574.1	825.9	585.6	418.3	345.2	299.6	273.8	266.2	266.2
67.5°	13116.4	8833.5	1336.9	839.5	588.6	401.5	331.6	289.0	260.1	241.8	241.8
69°	12030.4	7743.0	1227.4	815.2	564.3	381.7	316.4	278.3	251.0	229.7	229.7
70°	11145.3	6917.1	1160.5	786.3	535.4	365.0	302.7	267.7	241.8	223.6	222.1
72.5°	8320.9	4616.0	991.6	678.3	439.5	308.7	264.6	238.8	217.5	205.3	205.3
75°	4390.9	2313.3	812.2	553.6	339.2	246.4	217.5	200.8	188.6	187.1	185.6
77.5°	1438.8	1046.4	584.0	416.7	249.4	191.6	173.4	162.7	161.2	167.3	167.3
80°	777.2	625.1	375.7	281.4	173.4	143.0	133.8	132.3	136.9	146.0	146.0
82.5°	377.2	308.7	223.6	173.4	118.6	104.9	104.9	106.5	112.5	123.2	123.2
85°	162.7	146.0	129.3	97.3	73.0	65.4	74.5	82.1	86.7	94.3	97.3
87.5°	77.6	68.4	59.3	38.0	31.9	33.5	39.5	48.7	57.8	63.9	65.4
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)