

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: P271073

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271073
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-05-LED-U-SL3-7027
Description: NAVION ROADWAY AND AREA LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 26090.7 lumens
Efficiency: N/A
Efficacy: 93.5 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

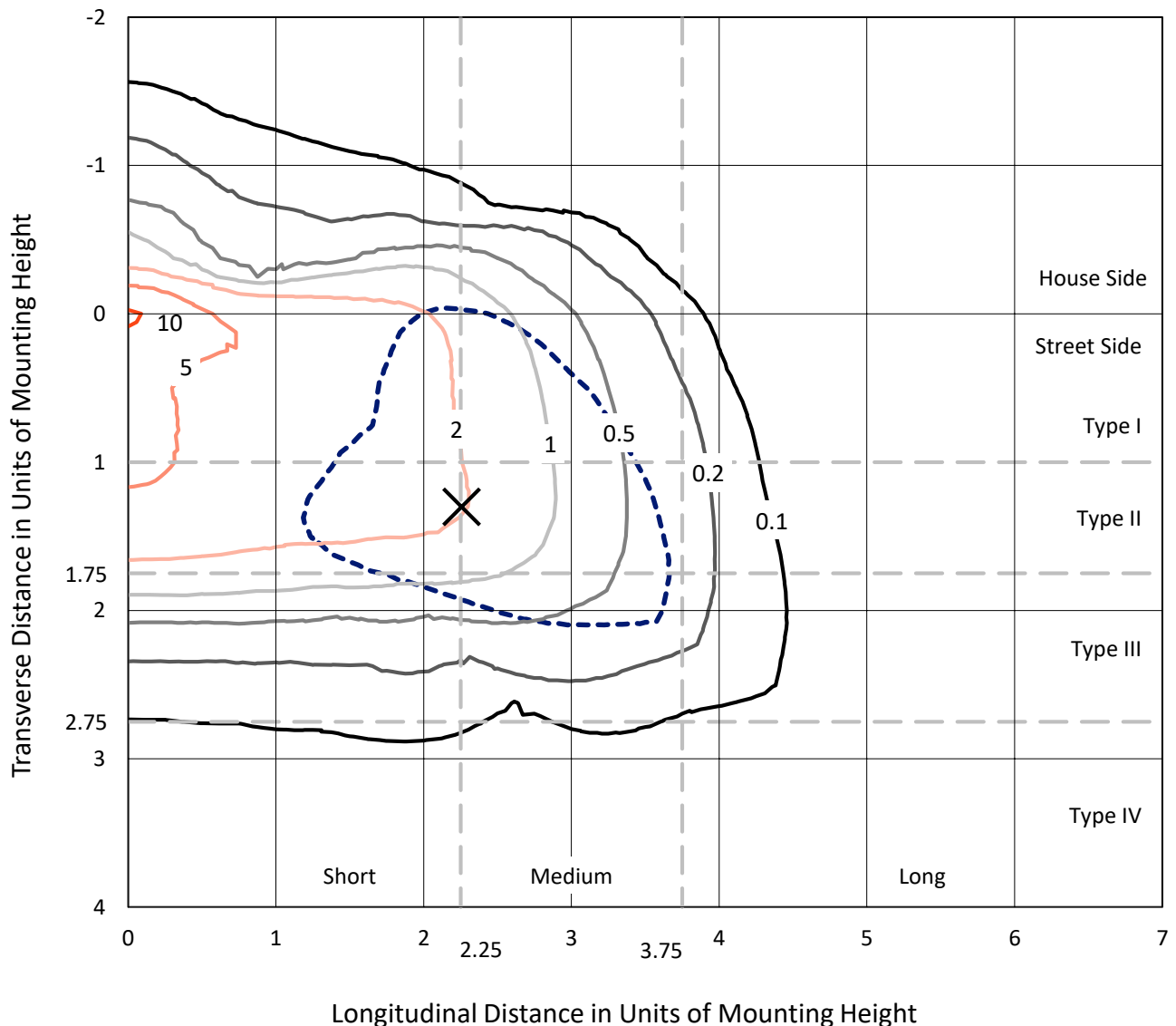
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

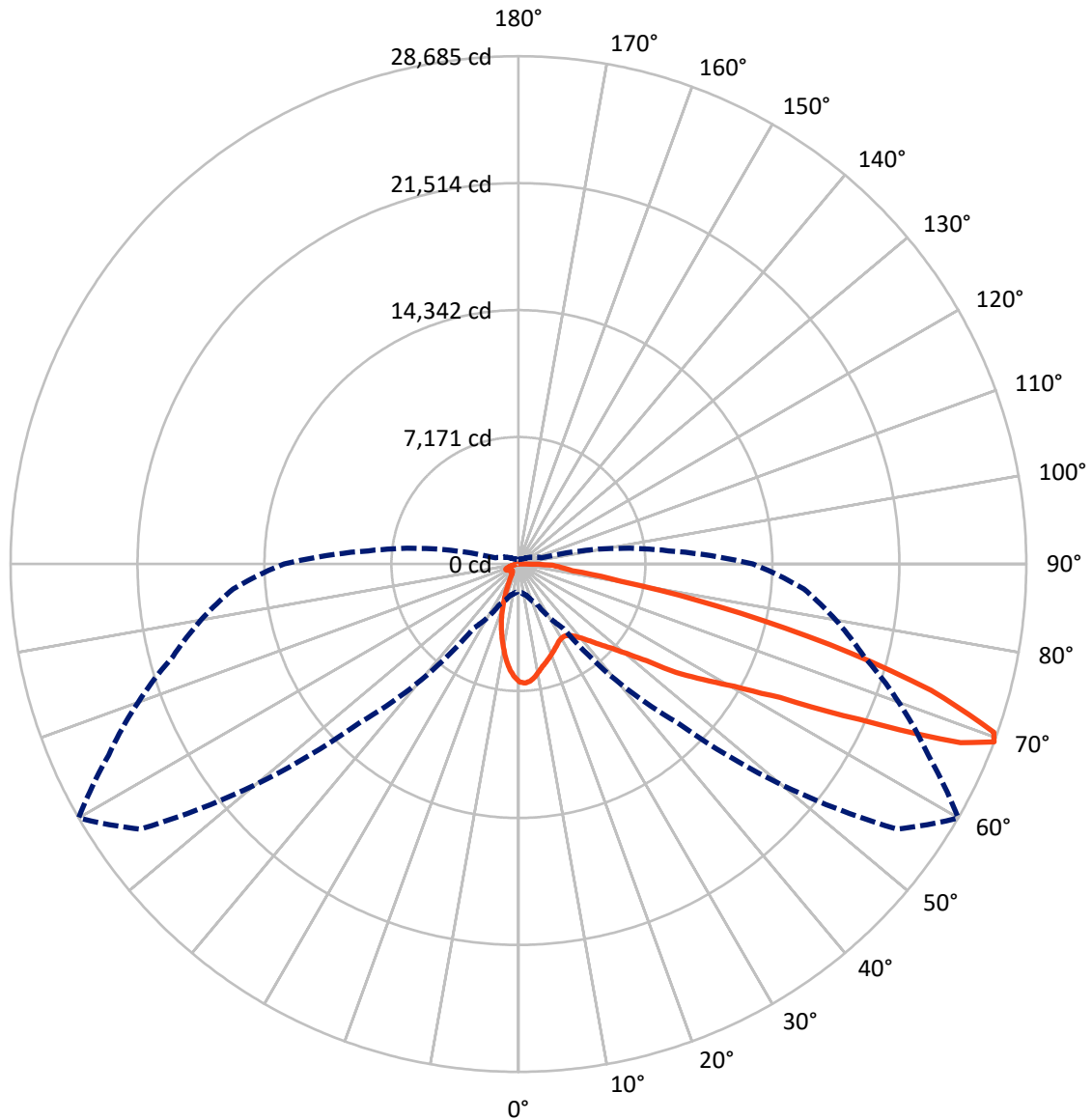
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	3721.4	0.0	3721.4
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	22369.3	0.0	22369.3
	% Fixture	85.7	0.0	85.7
Total	Lumens	26090.7	0.0	26090.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.7	2.2
10°-20°	1209.2	4.6
20°-30°	1542.6	5.9
30°-40°	2122.7	8.1
40°-50°	3438.4	13.2
50°-60°	5396.4	20.7
60°-70°	7194.4	27.6
70°-80°	4001.7	15.3
80°-90°	620.6	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°	26090.7	100.0
0°-180°	26090.7	100.0

Coefficient of Utilization



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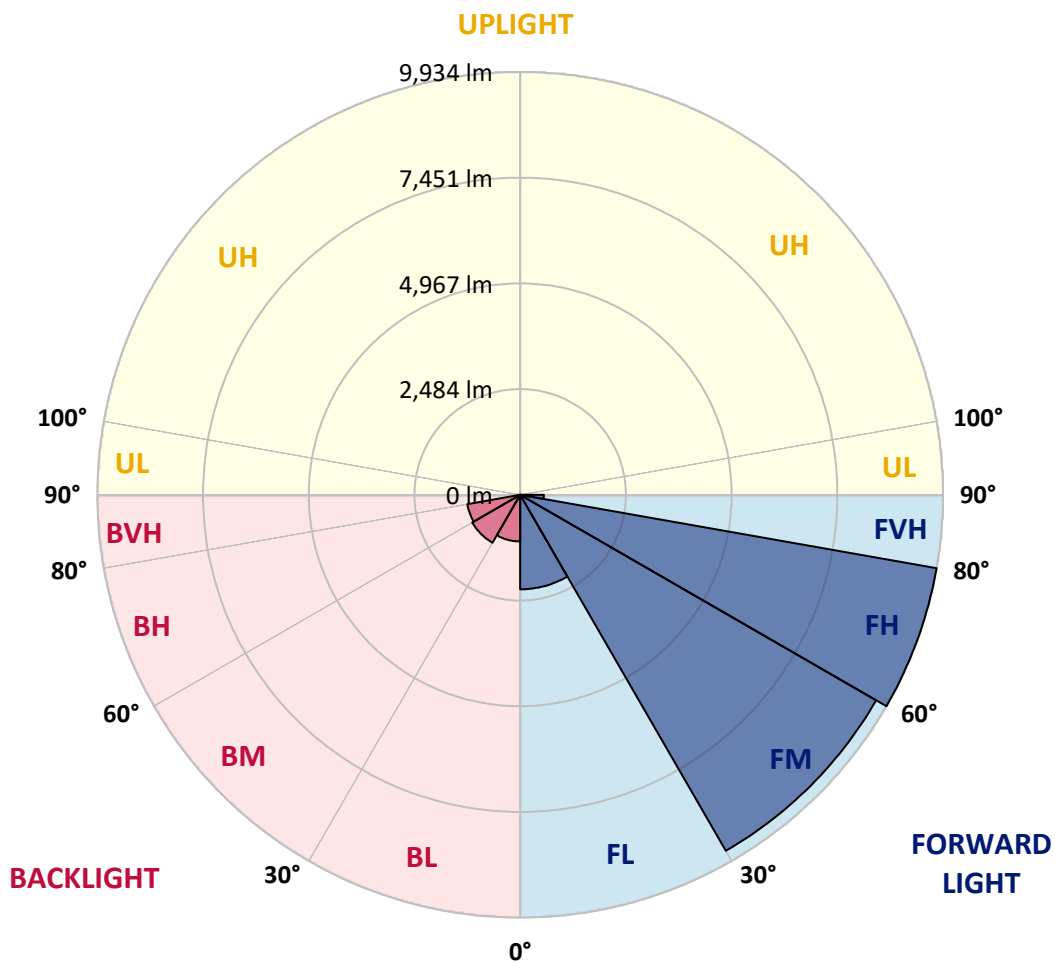
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2219.8	8.5			
FM	(30°-60°)	9657.4	37.0			
FH	(60°-80°)	9934.3	38.1			G4/12000
FVH	(80°-90°)	557.7	2.1			G4/750
BL	(0°-30°)	1096.7	4.2	B3/2500		
BM	(30°-60°)	1300.0	5.0	B2/2500		
BH	(60°-80°)	1261.8	4.8	B3/2500		G3/2500
BVH	(80°-90°)	62.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	6657.1	6657.1	6657.1	6657.1	6657.1	6657.1	6657.1	6657.1	6657.1	6657.1	6657.1
2.5°	6834.5	6852.9	6852.9	6837.8	6829.5	6780.9	6752.5	6732.3	6697.3	6632.0	6573.4
5°	6590.2	6625.3	6640.5	6647.1	6690.5	6675.6	6677.2	6663.8	6633.8	6563.5	6468.1
7.5°	6141.8	6148.4	6175.3	6220.5	6325.9	6399.4	6459.7	6471.4	6464.7	6412.9	6279.1
10°	5700.1	5711.9	5743.7	5820.6	5921.0	6026.4	6157.0	6210.4	6250.5	6233.9	6064.8
12.5°	5333.7	5335.5	5370.5	5459.2	5571.3	5703.5	5880.8	5964.4	6059.8	6098.4	5909.3
15°	4980.7	5004.2	5037.6	5144.7	5283.6	5450.8	5655.0	5770.4	5895.8	6006.2	5788.8
17.5°	4713.0	4731.5	4751.6	4840.2	5000.8	5209.9	5462.6	5586.4	5751.9	5921.0	5665.0
20°	4565.7	4572.6	4557.5	4600.8	4736.5	4962.2	5255.2	5404.1	5601.4	5839.1	5537.8
22.5°	4535.7	4535.7	4480.4	4472.1	4532.4	4723.1	5041.0	5223.4	5464.2	5782.1	5424.1
25°	4676.2	4666.2	4562.4	4467.1	4445.4	4542.4	4836.8	5061.1	5347.2	5780.5	5338.7
27.5°	4942.3	4928.9	4800.1	4639.3	4500.6	4458.6	4679.6	4908.8	5255.2	5837.4	5295.2
30°	5273.5	5268.5	5137.9	4937.3	4707.9	4492.2	4617.6	4830.1	5193.2	5942.7	5293.6
32.5°	5636.5	5613.1	5532.8	5332.1	5034.2	4678.0	4654.5	4833.5	5176.5	6096.6	5332.1
35°	6023.0	6006.2	5986.2	5783.7	5449.2	5005.9	4816.7	4948.9	5258.5	6310.9	5440.9
37.5°	6514.9	6496.5	6530.0	6309.2	5942.7	5435.9	5091.1	5179.7	5425.8	6621.9	5643.2
40°	7389.9	7336.4	7242.8	6903.0	6518.3	5962.8	5487.7	5501.0	5711.9	7038.6	5967.8
42.5°	8827.0	8654.8	8191.4	7567.3	7125.5	6575.1	6004.6	5941.1	6106.7	7589.1	6439.6
45°	10267.5	10073.6	9290.5	8291.7	7754.7	7232.7	6643.8	6491.5	6598.6	8229.8	7046.9
47.5°	11197.8	11102.4	10219.1	9016.2	8413.9	7948.7	7374.8	7123.9	7200.9	8955.9	7796.5
50°	11470.5	11388.5	10694.2	9583.3	9036.2	8813.7	8279.9	7947.0	7960.4	9804.2	8695.0
52.5°	11266.5	11232.9	10772.8	9934.6	9608.5	9725.5	9533.2	9069.6	8959.2	10734.3	9668.6
55°	10993.6	11005.5	10828.1	10287.7	10190.6	10575.4	11172.7	10799.7	10331.1	11703.1	10682.6
57.5°	10135.4	10143.8	10609.0	10960.3	11301.5	11766.7	12449.3	12292.0	11746.5	12748.7	11818.6
60°	8161.2	8226.5	9262.2	10821.4	12571.4	14114.0	14281.3	14010.2	13252.3	13953.4	13295.9
62.5°	5830.5	5889.2	7088.7	9394.3	12422.5	16770.7	17664.2	16586.8	15295.3	15755.3	15373.9
65°	3063.4	3053.3	3981.8	6491.5	10463.4	17386.5	22994.6	21161.0	18736.7	18233.1	17381.5
67.5°	1711.5	1766.7	2126.5	3274.2	6819.5	15301.9	26399.3	26939.7	23521.6	20198.8	17294.4
69°	1582.8	1601.0	1842.1	2531.3	4445.4	12625.0	26106.5	28684.7	25539.4	20207.4	16180.2
70°	1537.5	1557.7	1776.8	2332.3	3734.3	10344.5	25040.8	28480.7	26029.6	19758.8	15166.4
72.5°	1378.5	1405.4	1617.8	2096.4	3147.0	5332.1	20170.5	24376.5	23578.5	17269.3	11760.0
75°	1176.2	1221.3	1542.6	2081.4	2981.5	3389.7	13451.5	18161.2	17548.7	12350.5	6672.3
77.5°	486.8	491.9	674.3	1524.2	3128.6	3244.0	7229.3	11504.1	10183.9	5415.7	2009.4
80°	339.6	332.9	336.2	445.0	2524.6	3265.8	3709.2	5850.8	4547.4	1428.8	940.3
82.5°	286.1	282.7	296.1	279.5	854.9	3705.9	3101.8	3049.9	2141.5	769.6	448.3
85°	189.1	184.1	242.6	254.3	406.6	2942.9	3336.0	2397.4	1596.1	411.6	190.7
87.5°	92.0	93.8	138.9	172.4	215.9	931.9	3195.5	1895.6	1233.1	179.0	77.0
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°	6657.1	6657.1	6657.1	6657.1	6657.1	6657.1	6657.1	6657.1	6657.1	6657.1	6657.1
2.5°	6550.0	6499.9	6454.7	6397.8	6354.3	6317.5	6267.4	6265.7	6257.2	6269.0	6272.3
5°	6404.5	6320.8	6193.8	6051.5	5951.1	5819.0	5690.1	5646.6	5598.1	5593.0	5608.1
7.5°	6185.3	6054.8	5837.4	5619.8	5402.3	5179.7	4969.1	4861.9	4758.2	4726.4	4741.4
10°	5941.1	5775.5	5442.6	5087.8	4781.6	4450.4	4129.1	3921.7	3732.5	3652.2	3672.5
12.5°	5750.3	5539.5	5071.0	4611.0	4152.5	3677.4	3254.1	2844.3	2534.7	2395.8	2404.3
15°	5586.4	5317.0	4723.1	4110.7	3536.8	2886.1	2298.9	1823.6	1552.6	1452.2	1448.8
17.5°	5409.1	5082.8	4360.1	3645.6	2901.0	2096.4	1539.2	1258.2	1151.1	1117.6	1117.6
20°	5220.1	4841.9	3980.2	3138.7	2231.8	1464.0	1157.7	1049.0	1008.8	998.8	997.2
22.5°	5044.3	4606.0	3598.8	2598.3	1614.6	1110.9	985.4	943.6	936.9	945.2	945.2
25°	4905.5	4398.6	3212.2	2029.5	1174.5	930.3	876.7	871.6	896.8	927.0	931.9
27.5°	4801.7	4212.8	2830.7	1482.4	923.5	809.7	791.3	813.1	871.6	931.9	943.6
30°	4729.8	4053.8	2374.1	1065.7	769.6	709.4	717.7	756.3	844.9	936.9	962.1
32.5°	4698.0	3925.1	1914.0	818.1	657.5	624.1	645.8	695.9	788.1	880.0	910.2
35°	4728.0	3831.4	1489.0	679.3	575.5	550.4	575.5	627.3	687.7	732.7	751.3
37.5°	4836.8	3797.9	1120.9	602.4	521.9	496.9	517.0	552.1	578.9	595.5	604.0
40°	5066.0	3833.0	878.4	562.2	491.9	463.4	468.5	485.2	503.6	517.0	518.6
42.5°	5430.8	3948.4	781.3	547.1	473.4	436.7	428.3	440.0	460.1	478.4	481.9
45°	5916.0	4140.8	771.3	552.1	465.1	414.8	398.2	409.8	436.7	466.8	471.8
47.5°	6543.3	4445.4	818.1	578.9	470.2	403.2	378.0	389.9	425.0	465.1	471.8
50°	7286.2	4866.9	905.1	619.0	493.6	403.2	369.7	379.9	416.6	461.8	468.5
52.5°	8161.2	5454.1	995.5	659.1	527.0	418.3	373.1	371.4	404.9	446.6	455.1
55°	9126.6	6183.7	1082.5	694.3	545.5	438.4	381.5	361.4	388.2	421.7	428.3
57.5°	10262.5	7182.5	1234.7	727.7	555.4	453.5	391.5	351.3	366.4	389.9	394.9
60°	11803.5	8649.8	1530.8	784.7	573.8	460.1	393.2	341.3	339.6	356.4	358.1
62.5°	13812.9	10368.0	1813.6	851.7	610.7	461.8	386.5	334.6	317.9	322.9	322.9
65°	15241.6	11000.5	1731.7	908.5	644.2	460.1	379.9	329.6	301.1	292.8	292.8
67.5°	14428.5	9717.1	1470.6	923.5	647.5	441.6	364.7	317.9	286.1	266.0	266.0
69°	13234.0	8517.5	1350.2	896.8	620.6	420.0	348.1	306.1	276.0	252.7	252.7
70°	12260.2	7609.2	1276.5	865.0	588.8	401.5	332.9	294.5	266.0	246.0	244.2
72.5°	9153.3	5077.8	1090.8	746.2	483.5	339.6	291.1	262.7	239.3	225.8	225.8
75°	4830.1	2544.7	893.5	609.1	373.1	271.1	239.3	220.9	207.5	205.8	204.2
77.5°	1582.8	1151.1	642.5	458.5	274.4	210.8	190.7	179.0	177.3	184.1	184.1
80°	854.9	687.7	413.2	309.6	190.7	157.3	147.2	145.5	150.6	160.5	160.5
82.5°	414.8	339.6	246.0	190.7	130.6	115.4	115.4	117.0	123.7	135.6	135.6
85°	179.0	160.5	142.2	107.1	80.3	72.0	81.9	90.4	95.4	103.8	107.1
87.5°	85.2	75.3	65.2	41.9	35.2	36.8	43.5	53.4	63.6	70.2	72.0
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)