

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: P967326

Luminaire Tested: **NVN-SB4D-827-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB4D-827-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

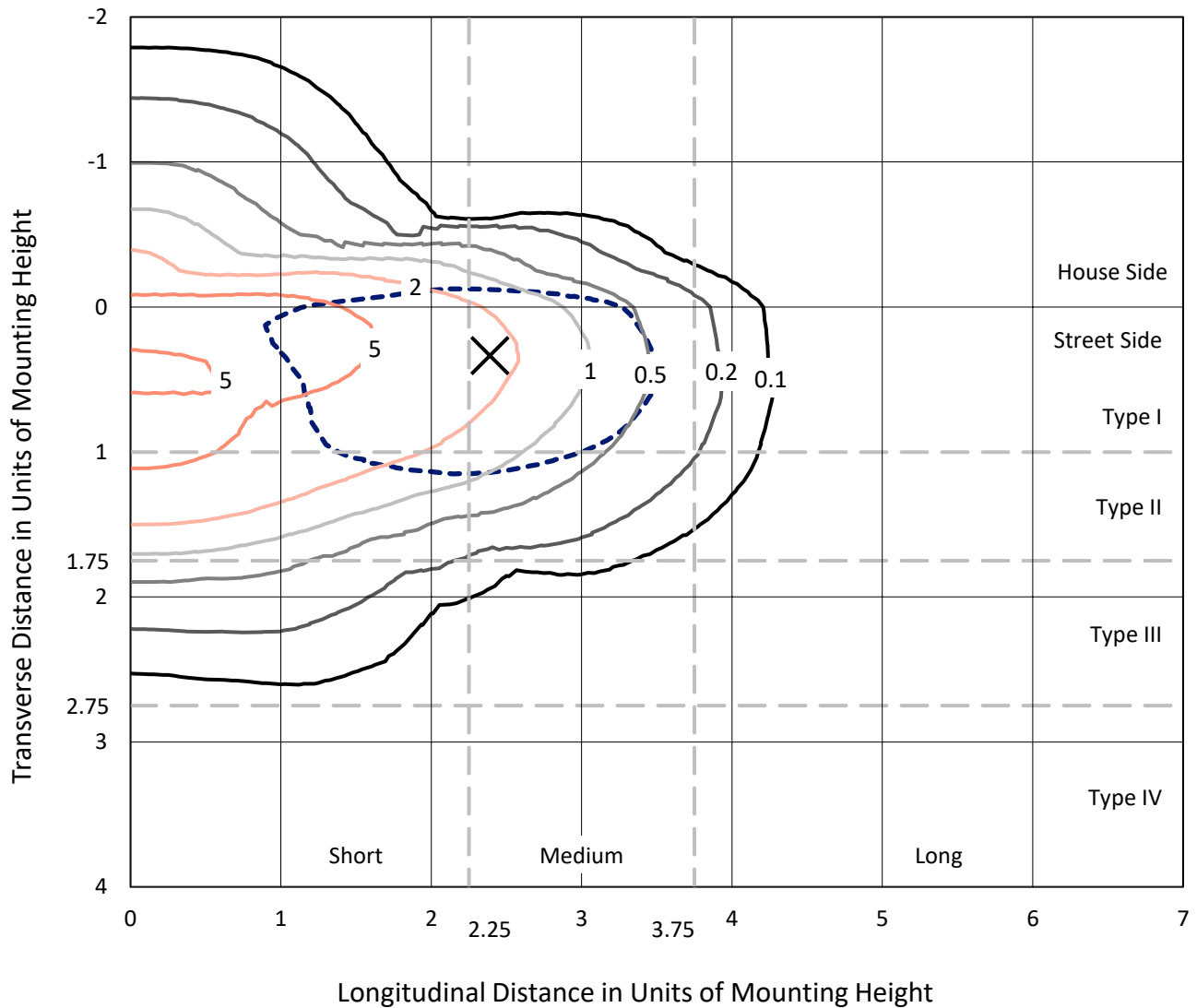
Lumens per Lamp: N/A  
Luminaire Lumens: 26544.4 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

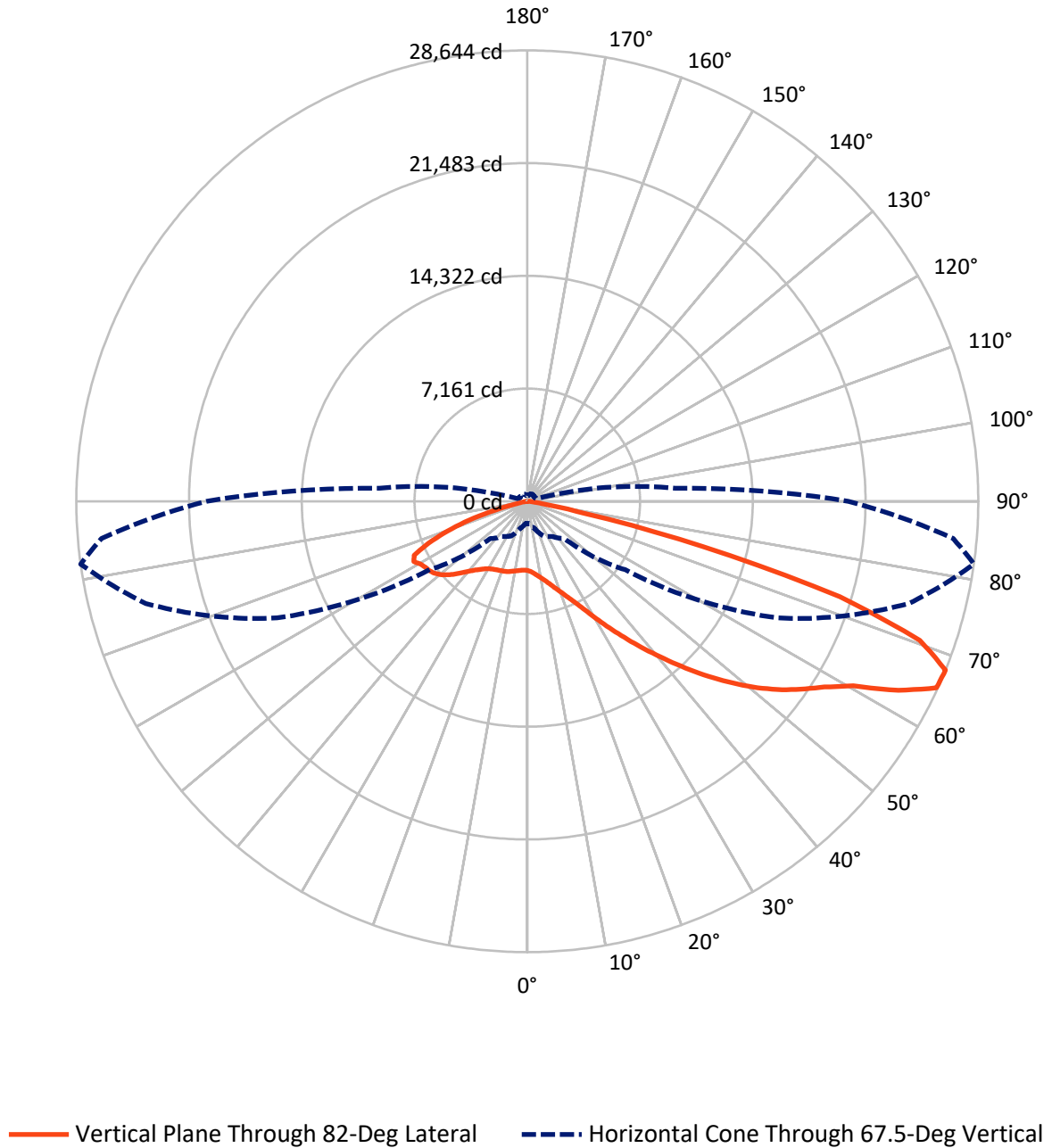
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4808.3	0.0	4808.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	21736.1	0.0	21736.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	26544.4	0.0	26544.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.8	1.5
10°-20°	1018.1	3.8
20°-30°	1630.7	6.1
30°-40°	2883.5	10.9
40°-50°	5052.2	19.0
50°-60°	6738.2	25.4
60°-70°	6272.9	23.6
70°-80°	2407.5	9.1
80°-90°	149.5	0.6
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°	26544.4	100.0
0°-180°	26544.4	100.0

**Coefficient of Utilization**



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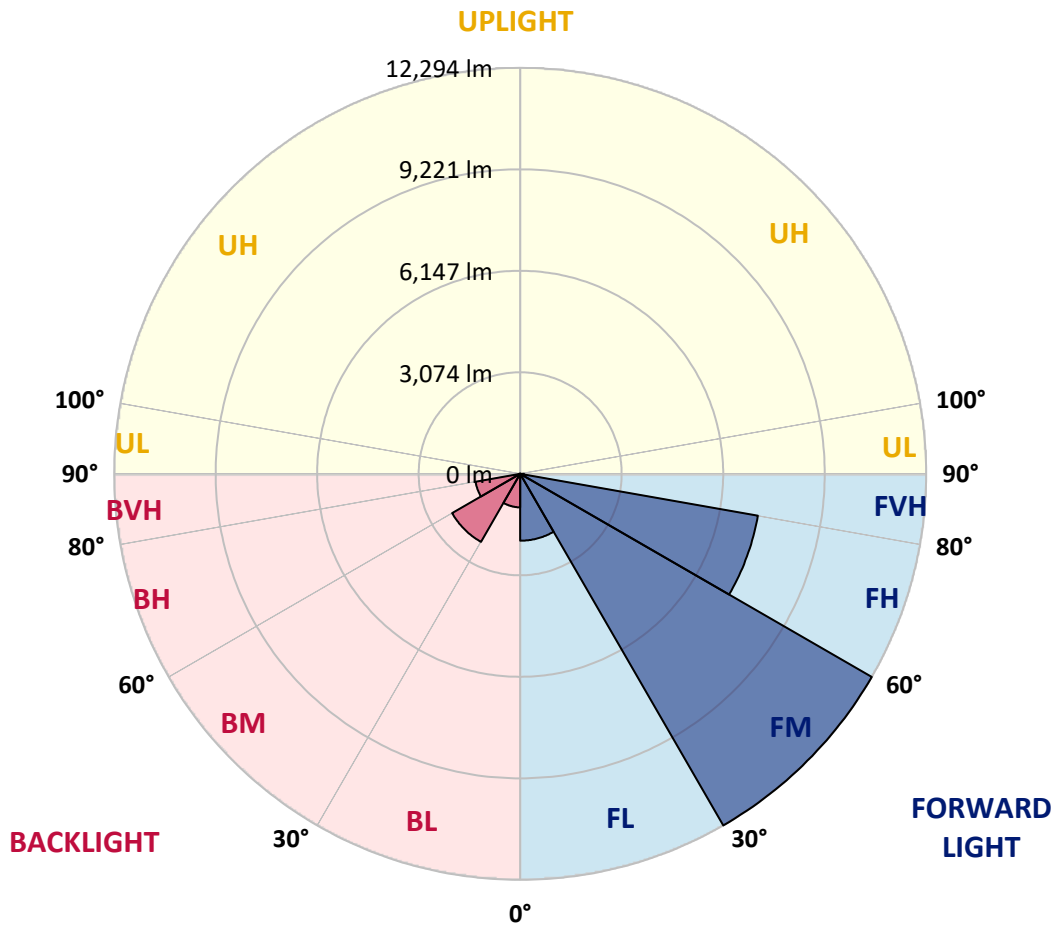
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2025.0	7.6			
FM (30°-60°)	12294.3	46.3			
FH (60°-80°)	7308.1	27.5			G3/7500
FVH (80°-90°)	108.7	0.4			G2/225
BL (0°-30°)	1015.5	3.8	B3/2500		
BM (30°-60°)	2379.6	9.0	B2/2500		
BH (60°-80°)	1372.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	40.8	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-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6
2.5°	4647.9	4674.6	4659.3	4651.7	4638.3	4619.2	4603.9	4556.1	4506.4	4473.9	4462.5
5°	4741.5	4768.3	4766.4	4774.0	4783.6	4789.3	4785.5	4731.9	4661.3	4605.8	4573.3
7.5°	4661.3	4691.8	4716.6	4754.9	4821.8	4892.5	4926.9	4915.4	4842.8	4766.4	4726.3
10°	4433.8	4466.3	4525.6	4615.4	4756.8	4909.6	5037.8	5097.0	5051.1	4967.0	4911.6
12.5°	4017.2	4049.7	4166.2	4361.2	4598.2	4863.8	5108.5	5267.1	5278.5	5194.5	5129.5
15°	3549.0	3581.5	3705.7	3950.3	4311.6	4737.7	5146.6	5446.7	5548.0	5475.3	5397.0
17.5°	3258.5	3287.2	3380.8	3577.7	3954.1	4485.4	5133.3	5637.8	5869.0	5811.7	5718.1
20°	3170.5	3195.4	3239.4	3377.0	3690.4	4223.6	5045.4	5817.5	6215.0	6182.5	6077.4
22.5°	3264.2	3287.2	3300.5	3361.7	3558.5	4051.6	4934.6	6001.0	6616.4	6620.2	6492.1
25°	3480.2	3503.1	3487.8	3526.0	3612.0	3998.1	4892.5	6216.9	7120.9	7162.9	7017.7
27.5°	3835.7	3837.6	3801.2	3799.4	3812.7	4078.4	4936.5	6448.2	7757.3	7835.6	7656.0
30°	4548.5	4519.8	4380.3	4229.4	4160.6	4319.1	5058.8	6721.4	8508.3	8647.8	8422.3
32.5°	5647.4	5605.3	5349.3	4988.1	4624.9	4707.1	5278.5	7032.9	9326.3	9578.6	9303.4
35°	6839.9	6828.4	6560.9	6023.9	5389.3	5259.5	5636.0	7441.9	10218.8	10620.1	10293.4
37.5°	7948.4	7942.6	7789.8	7157.2	6385.1	6029.7	6209.2	7977.1	11174.3	11755.4	11369.3
40°	8961.3	8978.5	8825.6	8259.9	7482.1	7017.7	6989.0	8638.3	12237.0	12991.9	12533.2
42.5°	9836.6	9855.7	9700.9	9282.4	8565.7	8110.8	7946.5	9448.7	13274.7	14320.1	13777.3
45°	10430.9	10549.4	10526.5	10192.1	9677.9	9205.9	9097.0	10465.4	14457.7	15728.6	15092.2
47.5°	10599.1	10708.1	10880.1	10926.0	10612.5	10148.1	10278.1	11690.4	15654.1	17139.0	16414.7
50°	10184.4	10285.7	10643.1	11119.0	11336.8	11193.5	11426.7	13003.4	16879.1	18545.6	17712.4
52.5°	9366.4	9469.7	9920.7	10673.6	11562.3	12013.4	12579.1	14297.2	18065.9	19877.7	18941.2
55°	8183.5	8292.4	8871.5	9723.9	11132.3	12351.7	13540.4	15589.1	19153.4	21075.9	20049.7
57.5°	6574.2	6654.6	7256.6	8449.1	10050.6	12015.3	14249.3	16999.5	20177.7	22253.3	21148.6
60°	4284.7	4355.4	5055.0	6385.1	8258.0	10891.5	14390.8	18572.4	21538.4	23784.0	22629.7
62.5°	2849.5	2897.3	3312.0	4288.6	5815.5	8733.8	13563.3	19828.0	23533.7	26448.2	25169.6
65°	1955.1	2002.8	2417.6	3098.0	3757.2	5777.3	11184.0	19661.8	25341.6	28563.8	27052.1
67.5°	1395.1	1435.3	1786.9	2429.0	2719.5	3356.0	7581.4	17536.5	25081.6	28644.0	27153.4
70°	999.5	1022.4	1312.9	1892.0	2161.5	2016.3	4215.9	13412.3	21960.8	26450.0	25085.5
72.5°	699.5	707.1	911.6	1440.9	1741.1	1471.6	2006.6	8942.2	16609.6	20760.7	19447.6
75°	474.0	483.5	613.5	1056.9	1397.1	1123.7	1062.6	4795.1	9750.6	11491.6	10301.0
77.5°	290.5	294.3	395.6	722.4	1045.4	856.2	684.2	2031.5	3772.6	3703.7	3157.2
80°	164.3	164.3	252.3	449.2	712.9	552.3	479.7	863.9	1194.4	1049.2	925.0
82.5°	91.7	93.7	183.5	279.0	472.0	326.8	263.7	399.4	516.0	456.7	397.5
85°	38.2	42.0	112.7	131.9	225.5	162.5	107.0	168.2	191.2	170.0	124.2
87.5°	3.8	5.7	34.4	24.8	26.8	32.5	15.3	32.5	26.8	26.8	19.1
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°	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6	4397.6
2.5°	4426.2	4397.6	4324.9	4240.8	4129.9	4076.4	4003.9	3954.1	3912.1	3915.9	3877.7
5°	4512.2	4439.6	4277.1	4074.6	3822.2	3642.6	3451.5	3319.7	3212.7	3189.7	3138.0
7.5°	4630.6	4516.0	4231.2	3866.2	3440.0	3117.0	2828.5	2643.1	2511.2	2469.2	2427.1
10°	4783.6	4617.3	4172.0	3604.4	2991.0	2580.0	2270.4	2125.1	2035.3	2004.8	1981.8
12.5°	4961.3	4733.9	4093.6	3285.2	2528.5	2132.8	1936.0	1863.3	1834.6	1825.1	1819.4
15°	5184.9	4879.1	3975.2	2906.8	2136.6	1859.6	1775.4	1765.9	1769.7	1765.9	1764.0
17.5°	5450.5	5037.8	3782.1	2517.0	1872.9	1720.1	1689.4	1697.1	1706.6	1704.8	1700.9
20°	5741.0	5194.5	3535.6	2171.1	1693.3	1620.6	1603.4	1611.1	1618.7	1614.9	1613.0
22.5°	6071.7	5362.6	3262.3	1901.6	1572.9	1528.9	1509.8	1511.7	1511.7	1504.1	1500.2
25°	6467.2	5548.0	2975.7	1710.4	1481.1	1446.7	1423.8	1416.1	1404.7	1381.7	1377.9
27.5°	6939.4	5744.8	2700.5	1576.7	1408.5	1376.1	1349.2	1330.1	1301.4	1263.2	1259.4
30°	7470.6	5983.7	2467.3	1492.6	1351.2	1318.7	1288.1	1259.4	1217.4	1169.6	1165.8
32.5°	8095.6	6239.9	2297.2	1437.2	1299.6	1265.2	1228.9	1194.4	1148.6	1100.8	1102.7
35°	8840.9	6549.4	2197.8	1398.9	1259.4	1213.6	1173.4	1135.2	1100.8	1058.7	1054.9
37.5°	9649.3	6878.2	2167.3	1379.9	1232.7	1161.9	1116.1	1089.4	1085.5	1060.7	1058.7
40°	10534.1	7268.1	2190.1	1368.4	1204.0	1112.2	1062.6	1056.9	1066.4	1022.4	1024.4
42.5°	11470.6	7730.6	2228.4	1354.9	1163.9	1062.6	1014.9	1014.9	1007.2	946.0	946.0
45°	12483.5	8263.8	2266.6	1322.5	1116.1	1012.9	976.6	963.2	930.7	871.5	869.6
47.5°	13504.1	8806.5	2295.3	1263.2	1058.7	970.9	938.4	907.7	860.0	806.5	804.6
50°	14473.0	9293.9	2264.7	1175.4	993.7	930.7	896.4	854.2	802.7	766.4	760.7
52.5°	15338.7	9716.2	2134.8	1072.1	925.0	888.7	858.1	814.2	772.1	733.9	730.0
55°	16091.7	10058.3	1905.4	974.7	863.9	852.4	821.7	766.4	709.0	676.5	672.7
57.5°	16814.1	10318.2	1618.7	894.4	808.4	812.2	766.4	716.7	663.2	628.7	624.9
60°	17775.4	10666.0	1328.2	819.9	749.2	760.7	710.9	674.7	607.7	563.8	558.0
62.5°	19312.0	11206.8	1054.9	728.2	680.4	684.2	663.2	619.2	538.9	487.4	483.5
65°	20531.3	11008.1	831.4	628.7	602.0	607.7	607.7	560.0	474.0	414.7	409.0
67.5°	20393.7	9425.7	663.2	531.3	527.5	531.3	544.7	504.5	420.5	372.7	365.0
70°	18786.4	7497.4	531.3	441.5	458.7	449.2	487.4	460.5	378.4	330.7	324.9
72.5°	15329.2	5400.8	405.2	365.0	351.7	367.0	439.5	414.7	315.3	261.8	256.0
75°	8957.5	2882.0	302.0	288.5	254.2	305.8	389.9	353.5	240.8	193.0	187.3
77.5°	2916.4	1005.2	221.7	212.2	189.2	246.5	332.5	298.2	196.8	152.9	147.2
80°	781.7	303.9	151.0	139.5	122.3	183.5	263.7	237.0	141.4	99.4	97.5
82.5°	313.4	128.0	87.9	78.3	66.9	126.2	208.3	191.2	105.1	63.0	63.0
85°	101.3	42.0	32.5	24.8	30.5	78.3	124.2	130.0	74.5	32.5	24.8
87.5°	13.4	5.7	5.7	7.7	5.7	13.4	38.2	36.3	21.0	3.8	0.0
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)