

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: P969961

Luminaire Tested: **NVN-SB6A-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969961
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-SB6A-827-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA 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: 17704.8 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

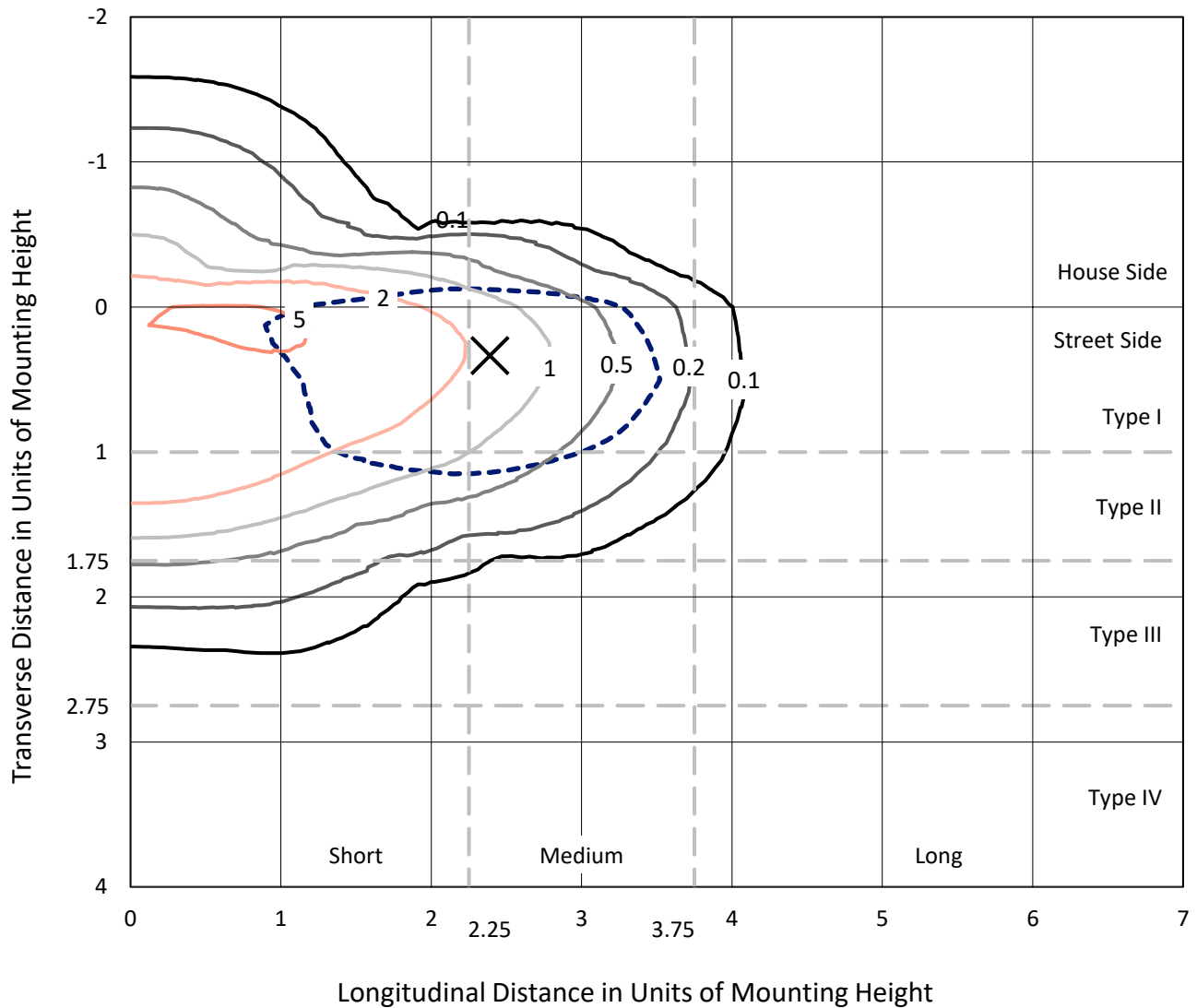
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

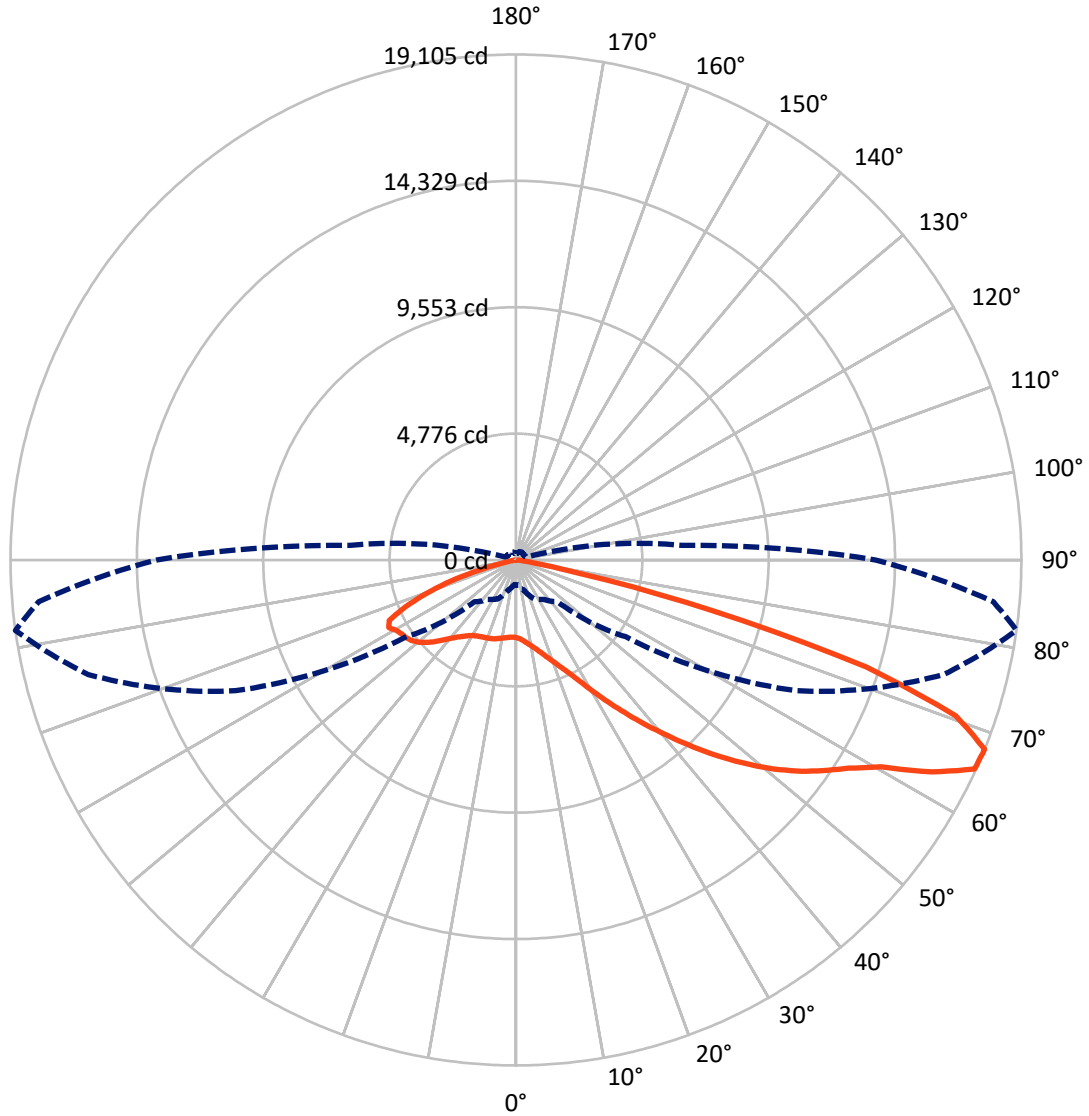
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3207.1	0.0	3207.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14497.7	0.0	14497.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	17704.8	0.0	17704.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.3	1.5
10°-20°	679.1	3.8
20°-30°	1087.6	6.1
30°-40°	1923.3	10.9
40°-50°	3369.7	19.0
50°-60°	4494.3	25.4
60°-70°	4184.0	23.6
70°-80°	1605.8	9.1
80°-90°	99.7	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°	17704.8	100.0
0°-180°	17704.8	100.0

Coefficient of Utilization



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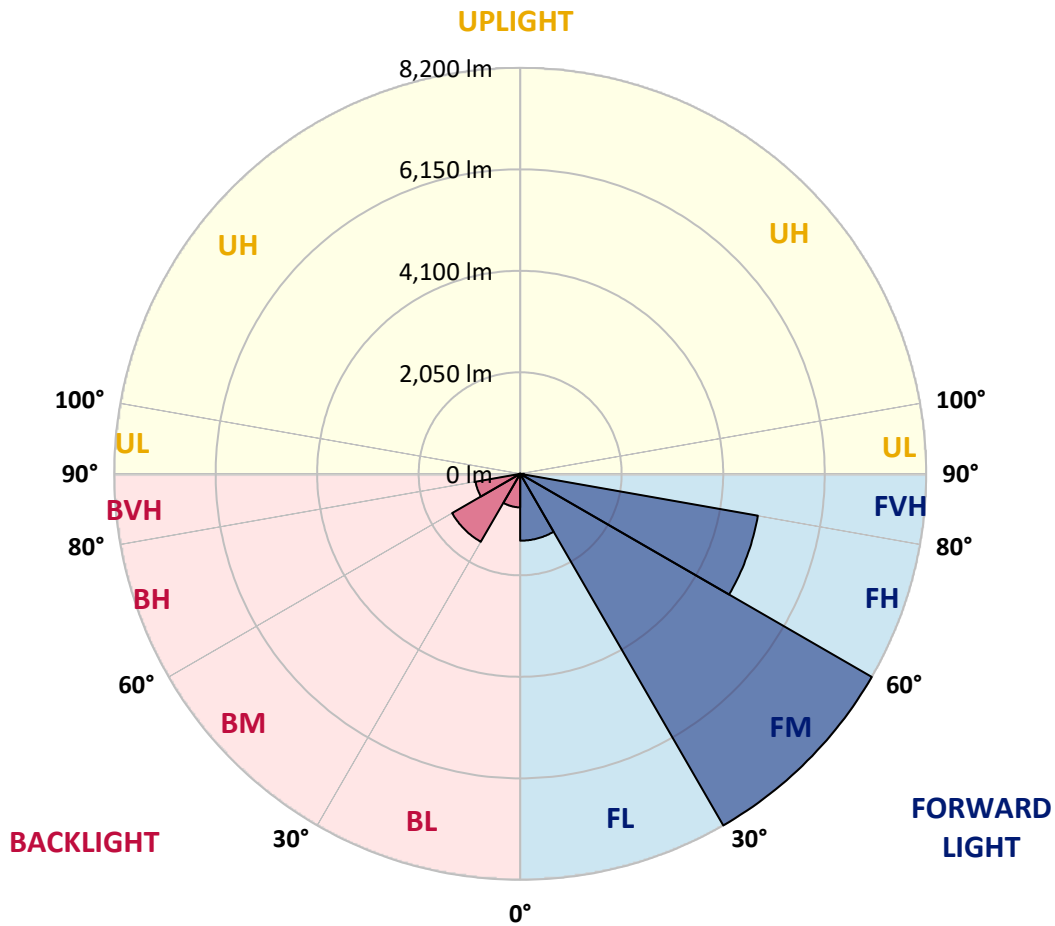
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.7	7.6			
FM (30°-60°)	8200.1	46.3			
FH (60°-80°)	4874.4	27.5			G2/5000
FVH (80°-90°)	72.5	0.4			G1/100
BL (0°-30°)	677.3	3.8	B2/1000		
BM (30°-60°)	1587.2	9.0	B2/2500		
BH (60°-80°)	915.4	5.2	B2/1000		G2/1000
BVH (80°-90°)	27.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1
2.5°	3100.1	3117.9	3107.7	3102.7	3093.7	3080.9	3070.8	3038.9	3005.7	2984.1	2976.4
5°	3162.5	3180.4	3179.1	3184.2	3190.6	3194.4	3191.8	3156.2	3109.0	3072.0	3050.4
7.5°	3109.0	3129.4	3145.9	3171.5	3216.0	3263.2	3286.2	3278.6	3230.1	3179.1	3152.4
10°	2957.3	2979.0	3018.5	3078.4	3172.8	3274.7	3360.2	3399.6	3369.1	3312.9	3276.0
12.5°	2679.5	2701.1	2778.9	2908.8	3066.9	3244.1	3407.3	3513.1	3520.8	3464.6	3421.3
15°	2367.1	2388.8	2471.7	2634.8	2875.7	3160.0	3432.7	3632.9	3700.5	3652.0	3599.8
17.5°	2173.4	2192.5	2254.9	2386.2	2637.3	2991.8	3423.8	3760.4	3914.6	3876.3	3813.9
20°	2114.8	2131.3	2160.6	2252.4	2461.4	2817.1	3365.2	3880.2	4145.3	4123.7	4053.6
22.5°	2177.2	2192.5	2201.4	2242.2	2373.5	2702.4	3291.3	4002.5	4413.0	4415.6	4330.2
25°	2321.2	2336.5	2326.3	2351.9	2409.2	2666.6	3263.2	4146.6	4749.5	4777.6	4680.7
27.5°	2558.3	2559.6	2535.3	2534.1	2543.0	2720.2	3292.6	4300.8	5174.0	5226.3	5106.4
30°	3033.8	3014.6	2921.7	2820.9	2775.0	2880.9	3374.1	4483.1	5675.0	5768.0	5617.6
32.5°	3766.8	3738.7	3567.9	3326.9	3084.7	3139.6	3520.8	4690.9	6220.5	6388.8	6205.2
35°	4562.2	4554.5	4376.0	4017.9	3594.7	3508.0	3759.1	4963.7	6815.8	7083.6	6865.6
37.5°	5301.5	5297.7	5195.7	4773.7	4258.8	4021.7	4141.5	5320.6	7453.2	7840.7	7583.2
40°	5977.1	5988.6	5886.6	5509.3	4990.4	4680.7	4661.6	5761.6	8161.9	8665.5	8359.5
42.5°	6560.9	6573.6	6470.4	6191.2	5713.2	5409.8	5300.2	6302.1	8854.1	9551.4	9189.3
45°	6957.3	7036.3	7021.0	6798.0	6455.1	6140.3	6067.6	6980.2	9643.1	10490.8	10066.3
47.5°	7069.5	7142.2	7256.9	7287.4	7078.4	6768.7	6855.3	7797.4	10441.1	11431.5	10948.4
50°	6792.9	6860.4	7098.8	7416.2	7561.5	7465.9	7621.5	8673.0	11258.2	12369.7	11813.9
52.5°	6247.3	6316.2	6617.0	7119.2	7712.0	8012.7	8390.1	9536.1	12049.8	13258.2	12633.5
55°	5458.2	5530.9	5917.1	6485.7	7425.1	8238.4	9031.3	10397.7	12775.1	14057.5	13372.9
57.5°	4385.0	4438.6	4840.0	5635.4	6703.7	8014.1	9504.2	11338.4	13458.4	14842.6	14105.8
60°	2857.9	2905.1	3371.6	4258.8	5507.9	7264.5	9598.5	12387.5	14365.9	15863.7	15093.7
62.5°	1900.6	1932.4	2209.1	2860.5	3878.9	5825.4	9046.5	13225.1	15696.6	17640.6	16787.9
65°	1304.0	1335.9	1612.5	2066.3	2506.0	3853.4	7459.5	13114.2	16902.6	19051.7	18043.4
67.5°	930.5	957.4	1191.9	1620.1	1813.9	2238.4	5056.7	11696.7	16729.2	19105.3	18110.9
70°	666.7	681.9	875.8	1262.0	1441.7	1344.8	2812.0	8945.9	14647.6	17641.9	16731.8
72.5°	466.6	471.6	608.0	961.1	1161.2	981.5	1338.4	5964.4	11078.4	13847.1	12971.4
75°	316.1	322.5	409.2	704.9	931.8	749.5	708.7	3198.2	6503.5	7664.7	6870.7
77.5°	193.7	196.3	263.8	481.9	697.3	571.0	456.3	1355.0	2516.3	2470.4	2105.8
80°	109.7	109.7	168.3	299.5	475.5	368.4	319.9	576.2	796.7	699.8	616.9
82.5°	61.2	62.4	122.4	186.1	314.9	218.0	175.9	266.4	344.2	304.6	265.2
85°	25.5	28.1	75.2	87.9	150.4	108.3	71.3	112.1	127.5	113.5	82.8
87.5°	2.6	3.8	23.0	16.6	17.8	21.6	10.1	21.6	17.8	17.8	12.7
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°	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1	2933.1
2.5°	2952.2	2933.1	2884.7	2828.6	2754.6	2718.9	2670.5	2637.3	2609.3	2611.9	2586.4
5°	3009.6	2961.1	2852.8	2717.7	2549.4	2429.6	2302.1	2214.2	2142.8	2127.5	2093.0
7.5°	3088.6	3012.2	2822.2	2578.7	2294.5	2079.0	1886.5	1762.9	1675.0	1646.9	1618.9
10°	3190.6	3079.7	2782.7	2404.1	1995.0	1720.9	1514.3	1417.5	1357.5	1337.1	1321.8
12.5°	3309.1	3157.4	2730.4	2191.2	1686.4	1422.6	1291.3	1242.8	1223.7	1217.3	1213.5
15°	3458.2	3254.3	2651.4	1938.8	1425.2	1240.2	1184.2	1177.8	1180.4	1177.8	1176.6
17.5°	3635.5	3360.2	2522.6	1678.7	1249.2	1147.3	1126.9	1131.9	1138.3	1137.0	1134.5
20°	3829.2	3464.6	2358.2	1448.0	1129.3	1081.0	1069.5	1074.6	1079.6	1077.2	1075.8
22.5°	4049.8	3576.8	2175.9	1268.3	1049.1	1019.8	1007.1	1008.3	1008.3	1003.2	1000.6
25°	4313.6	3700.5	1984.7	1140.8	987.9	964.9	949.7	944.5	937.0	921.6	919.0
27.5°	4628.5	3831.8	1801.1	1051.6	939.4	917.8	900.0	887.2	868.1	842.6	840.0
30°	4982.8	3991.0	1645.6	995.6	901.2	879.6	859.2	840.0	812.0	780.1	777.6
32.5°	5399.6	4161.9	1532.2	958.6	866.8	843.9	819.6	796.7	766.1	734.2	735.5
35°	5896.7	4368.4	1466.0	933.1	840.0	809.4	782.7	757.2	734.2	706.2	703.7
37.5°	6436.0	4587.7	1445.6	920.3	822.2	775.0	744.5	726.6	724.1	707.5	706.2
40°	7026.2	4847.7	1460.8	912.7	803.1	741.9	708.7	704.9	711.2	681.9	683.3
42.5°	7650.8	5156.2	1486.4	903.7	776.3	708.7	676.9	676.9	671.8	631.0	631.0
45°	8326.4	5511.8	1511.8	882.1	744.5	675.6	651.4	642.5	620.7	581.3	579.9
47.5°	9007.1	5873.9	1530.9	842.6	706.2	647.6	625.9	605.5	573.6	537.9	536.7
50°	9653.3	6198.9	1510.5	783.9	662.9	620.7	597.9	569.8	535.4	511.2	507.4
52.5°	10230.7	6480.6	1423.8	715.1	616.9	592.8	572.4	543.0	515.0	489.4	487.0
55°	10733.0	6708.7	1270.9	650.1	576.2	568.6	548.2	511.2	472.9	451.2	448.7
57.5°	11214.8	6882.2	1079.6	596.6	539.2	541.7	511.2	478.1	442.3	419.3	416.9
60°	11856.0	7114.1	885.9	546.8	499.7	507.4	474.2	450.0	405.4	376.1	372.2
62.5°	12880.9	7474.8	703.7	485.6	453.8	456.3	442.3	413.0	359.5	325.0	322.5
65°	13694.1	7342.3	554.5	419.3	401.5	405.4	405.4	373.5	316.1	276.6	272.8
67.5°	13602.4	6286.8	442.3	354.3	351.8	354.3	363.3	336.5	280.4	248.6	243.4
70°	12530.3	5000.7	354.3	294.5	306.0	299.5	325.0	307.2	252.4	220.5	216.7
72.5°	10224.4	3602.3	270.2	243.4	234.5	244.8	293.2	276.6	210.3	174.7	170.8
75°	5974.5	1922.3	201.4	192.5	169.5	204.0	260.0	235.9	160.6	128.7	124.9
77.5°	1945.2	670.5	147.9	141.4	126.2	164.4	221.8	198.8	131.3	102.0	98.2
80°	521.3	202.6	100.7	93.1	81.6	122.4	175.9	158.1	94.3	66.3	65.0
82.5°	209.1	85.4	58.6	52.3	44.6	84.2	139.0	127.5	70.1	42.0	42.0
85°	67.5	28.1	21.6	16.6	20.4	52.3	82.8	86.7	49.7	21.6	16.6
87.5°	8.9	3.8	3.8	5.1	3.8	8.9	25.5	24.2	14.0	2.6	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)