

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: P964156

Luminaire Tested: **NVN-SB3B-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-827-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14716.9 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

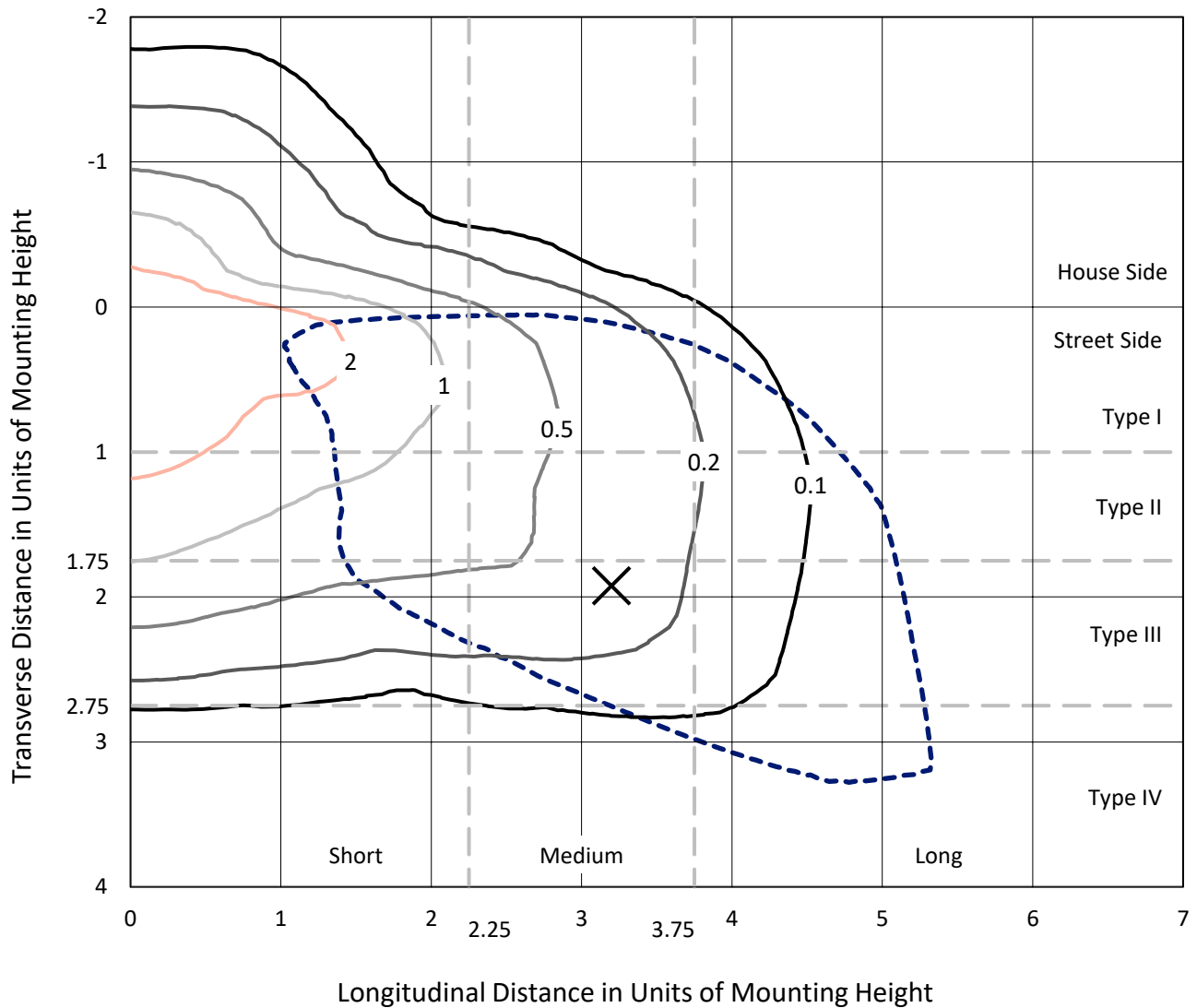
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

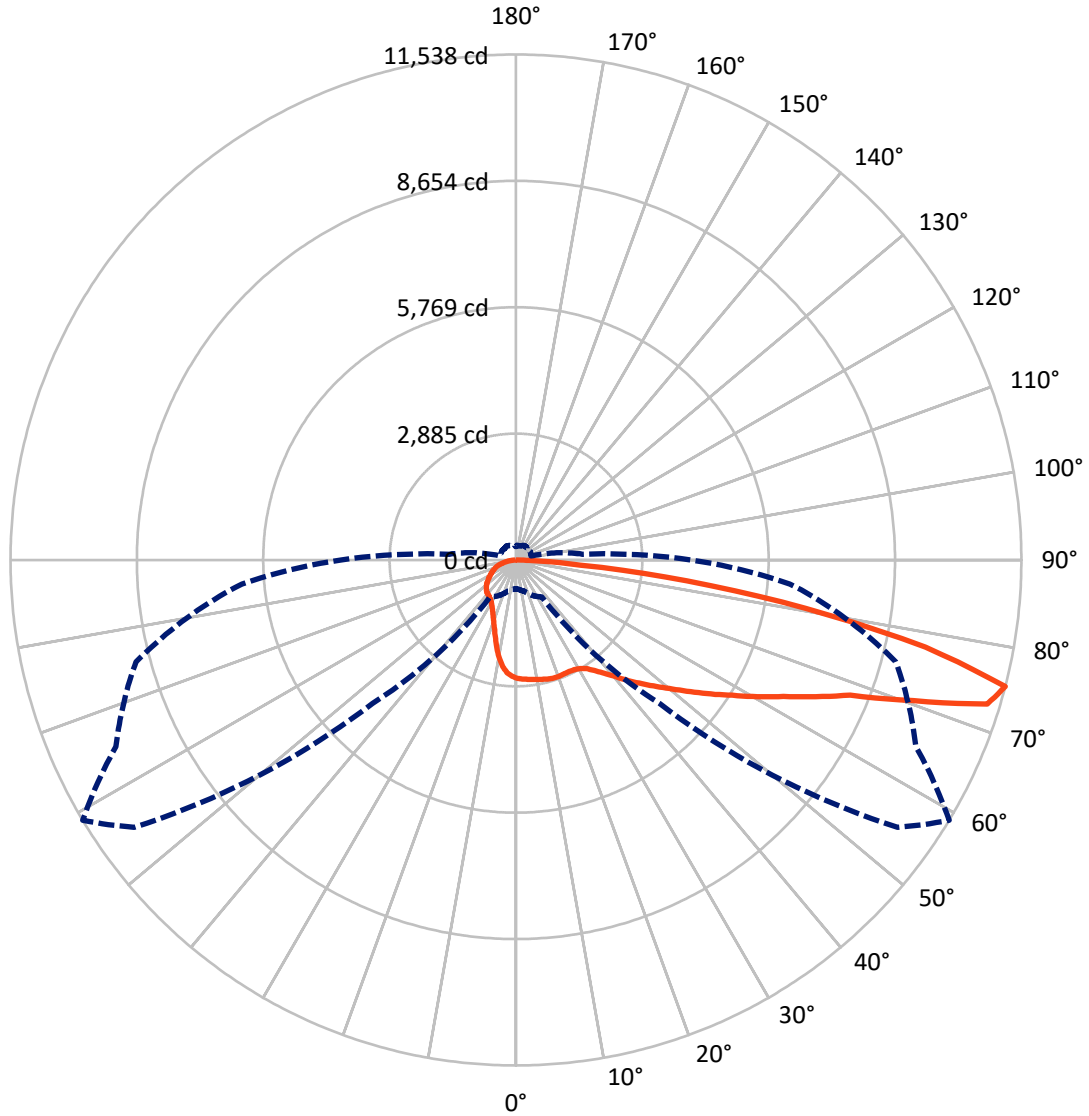
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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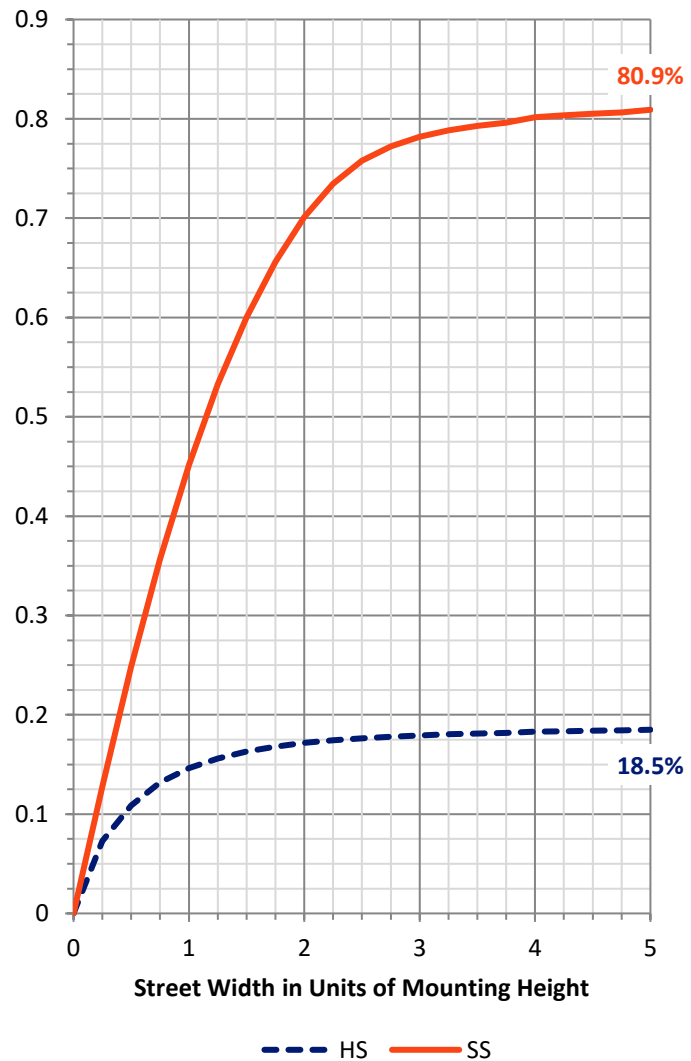
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2760.3	0.0	2760.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11956.7	0.0	11956.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	14716.9	0.0	14716.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	1.6
10°-20°	619.1	4.2
20°-30°	940.4	6.4
30°-40°	1397.8	9.5
40°-50°	2078.8	14.1
50°-60°	2821.8	19.2
60°-70°	3444.9	23.4
70°-80°	2703.5	18.4
80°-90°	468.3	3.2
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°	14716.9	100.0
0°-180°	14716.9	100.0

Coefficient of Utilization



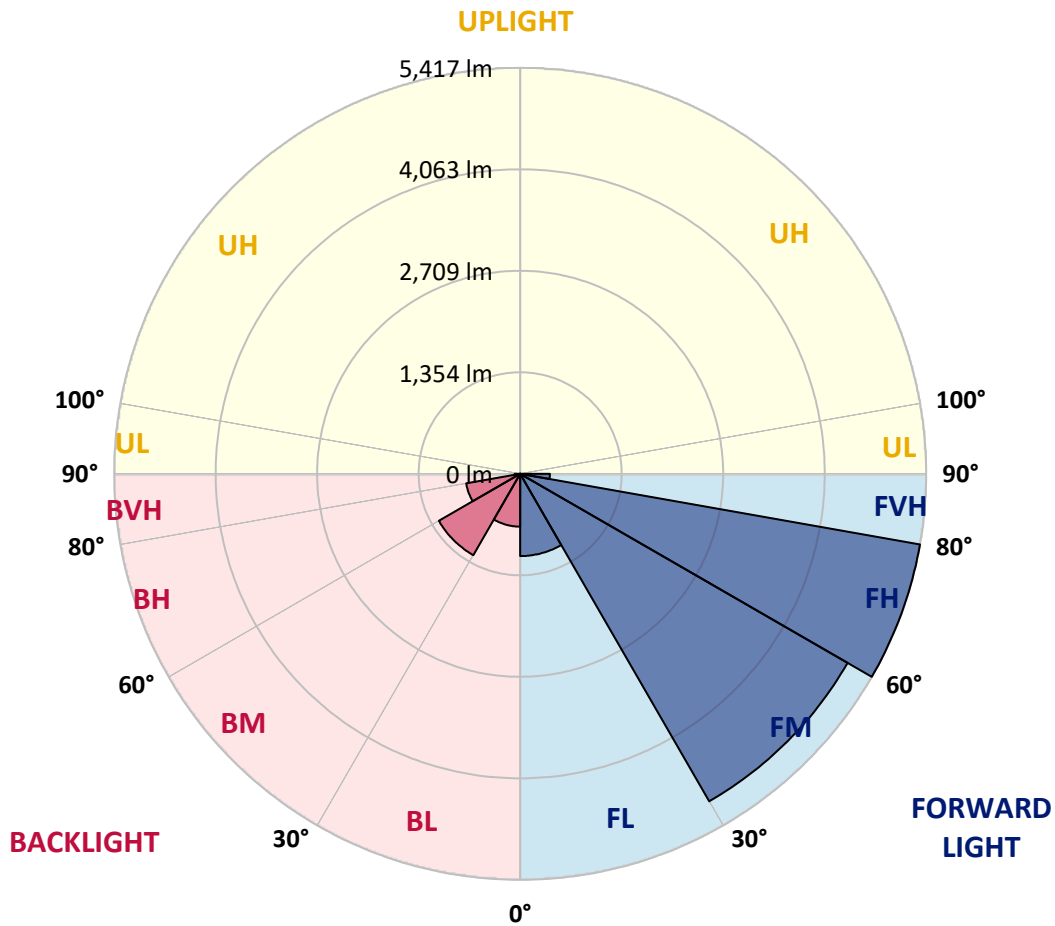
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1097.3	7.5			
FM (30°-60°)	5045.6	34.3			
FH (60°-80°)	5417.2	36.8			G3/7500
FVH (80°-90°)	396.6	2.7			G3/500
BL (0°-30°)	704.4	4.8	B2/1000		
BM (30°-60°)	1252.9	8.5	B2/2500		
BH (60°-80°)	731.3	5.0	B2/1000		G2/1000
BVH (80°-90°)	71.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3
2.5°	2724.2	2714.7	2724.2	2720.2	2718.7	2715.5	2716.4	2721.9	2718.7	2722.6	2709.2
5°	2706.0	2700.5	2710.0	2707.6	2717.9	2719.4	2729.8	2736.1	2740.0	2740.8	2730.6
7.5°	2676.0	2670.4	2683.9	2694.9	2717.1	2723.4	2744.8	2755.1	2760.6	2770.2	2755.1
10°	2565.9	2563.5	2596.7	2638.8	2690.9	2723.4	2755.9	2773.3	2782.1	2807.4	2789.9
12.5°	2371.1	2374.3	2417.9	2498.5	2603.1	2707.6	2768.5	2793.8	2807.4	2839.0	2831.2
15°	2185.1	2184.3	2231.8	2318.0	2464.5	2637.9	2774.9	2818.4	2841.4	2888.1	2881.8
17.5°	2077.4	2074.2	2107.5	2173.2	2309.3	2531.0	2759.1	2831.9	2881.0	2939.6	2934.1
20°	2057.6	2051.3	2068.7	2101.1	2197.7	2413.9	2717.9	2831.9	2912.6	2988.7	2985.5
22.5°	2129.6	2119.4	2112.2	2108.3	2151.1	2317.3	2671.1	2822.4	2959.4	3059.1	3053.6
25°	2274.6	2258.7	2222.3	2186.6	2174.0	2273.8	2630.0	2820.0	3029.0	3154.1	3133.5
27.5°	2508.9	2489.1	2415.4	2329.9	2253.2	2295.9	2611.8	2834.2	3105.9	3254.7	3213.5
30°	2799.5	2778.1	2685.4	2554.0	2416.2	2378.2	2634.8	2876.3	3203.9	3388.4	3307.7
32.5°	3059.9	3036.2	2957.0	2823.2	2637.1	2520.8	2707.6	2956.2	3358.4	3574.5	3449.4
35°	3291.1	3263.4	3192.2	3068.6	2907.9	2721.1	2839.0	3097.9	3577.7	3877.0	3641.8
37.5°	3517.5	3485.0	3407.4	3276.8	3164.4	2987.9	3020.4	3280.0	3869.0	4244.3	3896.7
40°	3770.9	3724.1	3629.9	3500.9	3391.6	3300.6	3258.6	3503.2	4165.1	4654.4	4215.0
42.5°	4016.3	3972.0	3859.5	3749.4	3612.5	3586.4	3534.9	3764.5	4488.9	5104.8	4538.0
45°	4280.7	4227.6	4091.5	3952.1	3865.9	3776.4	3802.5	4025.8	4806.4	5564.0	4876.8
47.5°	4528.4	4469.1	4308.4	4153.2	4105.7	3936.3	4047.9	4313.2	5136.5	6029.6	5212.5
50°	4662.3	4603.7	4469.9	4329.8	4292.6	4133.4	4313.9	4629.0	5482.5	6493.5	5534.7
52.5°	4773.9	4710.6	4535.6	4458.0	4447.0	4347.9	4641.7	4990.0	5828.5	6903.6	5845.9
55°	4892.6	4822.2	4599.0	4529.3	4579.9	4588.6	5030.4	5399.4	6194.2	7303.4	6139.5
57.5°	5029.7	4940.2	4660.0	4589.4	4709.8	4870.5	5477.0	5823.7	6553.6	7673.9	6400.8
60°	5158.7	5068.4	4777.1	4685.3	4849.9	5197.5	5989.2	6337.5	6960.6	8004.0	6647.8
62.5°	5184.0	5109.6	4870.5	4869.7	5039.9	5579.1	6595.6	6856.1	7316.0	8330.2	6869.6
65°	4745.4	4698.7	4557.0	4862.6	5312.3	6128.5	7270.9	7519.5	7768.1	8615.2	7064.3
67.5°	3611.7	3618.0	3607.8	4197.6	5092.2	6917.8	8248.7	8229.6	8326.3	8935.0	7288.4
70°	1651.5	1688.7	1930.9	2897.6	4079.6	7008.8	9865.3	9619.1	9026.9	9349.1	7482.3
72.5°	892.3	920.8	1019.7	1403.6	2452.6	6231.4	11073.5	11248.5	9958.7	9627.8	7269.3
75°	654.8	670.6	739.4	892.3	1030.0	4631.5	10640.4	11538.1	10075.1	8977.9	6277.3
77.5°	490.1	497.2	553.4	706.9	527.3	2441.5	8502.0	9555.8	8624.8	7376.2	4637.0
80°	355.5	363.4	405.4	530.4	369.7	893.1	5838.0	6707.2	5906.9	4701.9	2311.0
82.5°	245.4	248.6	266.8	361.0	258.1	346.8	3312.5	3933.1	3297.4	1649.9	623.8
85°	148.0	152.0	159.9	210.6	146.5	164.7	1429.8	1478.9	985.6	394.2	193.9
87.5°	61.0	64.9	71.2	88.7	57.8	45.9	236.0	296.1	184.5	115.6	60.2
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°	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3	2701.3
2.5°	2705.2	2699.6	2684.7	2664.1	2645.0	2621.3	2611.0	2602.3	2594.4	2579.3	2572.2
5°	2721.9	2706.8	2666.4	2614.2	2554.8	2489.9	2426.6	2383.0	2345.8	2318.0	2295.1
7.5°	2747.2	2718.7	2645.0	2538.2	2402.0	2262.7	2136.8	2047.3	1980.0	1955.5	1912.8
10°	2773.3	2739.3	2611.0	2422.6	2187.5	1972.9	1805.8	1714.0	1660.2	1642.8	1615.8
12.5°	2804.2	2754.3	2558.0	2261.9	1947.6	1712.5	1566.8	1512.9	1485.2	1475.7	1478.0
15°	2849.3	2767.0	2478.0	2060.8	1718.7	1522.4	1428.2	1391.0	1376.8	1376.0	1379.1
17.5°	2883.3	2769.3	2353.7	1845.4	1543.0	1407.6	1330.0	1315.8	1325.3	1339.6	1345.1
20°	2921.4	2747.9	2190.6	1649.1	1419.5	1307.1	1274.6	1284.1	1307.1	1327.7	1334.8
22.5°	2948.3	2709.2	1993.5	1496.3	1312.6	1249.3	1247.7	1267.5	1280.1	1290.5	1296.0
25°	2972.0	2643.5	1784.5	1368.1	1224.8	1214.4	1231.8	1225.6	1216.9	1225.6	1231.1
27.5°	2989.4	2539.7	1597.7	1255.6	1163.0	1190.7	1180.4	1166.1	1165.4	1170.1	1178.0
30°	2983.9	2401.2	1444.0	1148.7	1119.5	1146.4	1121.9	1119.5	1117.0	1119.5	1128.1
32.5°	2983.9	2243.6	1326.0	1075.1	1091.7	1081.5	1079.1	1073.6	1064.1	1063.2	1073.6
35°	3000.5	2086.1	1224.8	1035.6	1068.8	1044.3	1045.8	1032.4	1012.6	1003.1	1012.6
37.5°	3034.6	1959.5	1124.2	1016.5	1028.4	1027.7	1021.3	998.4	963.5	933.4	943.7
40°	3116.9	1922.3	1055.3	1007.8	1009.4	1019.0	1002.2	958.0	878.7	829.7	836.0
42.5°	3246.0	1984.8	1040.3	986.5	996.7	1006.2	973.7	870.8	814.7	785.4	785.4
45°	3409.9	2094.1	1072.8	955.6	966.7	983.3	886.7	837.6	812.3	813.0	817.0
47.5°	3617.2	2208.9	1132.9	928.6	923.1	932.6	828.9	798.8	764.0	772.6	794.9
50°	3857.2	2325.2	1189.9	892.3	874.8	844.0	791.7	763.2	718.8	698.2	703.9
52.5°	4116.8	2437.7	1212.9	847.9	822.6	787.0	766.4	731.5	677.7	643.6	642.9
55°	4363.0	2539.7	1187.6	794.9	770.3	742.6	739.4	718.1	660.3	612.7	612.7
57.5°	4595.8	2625.2	1124.2	741.1	717.3	700.7	722.0	711.8	638.9	577.9	574.8
60°	4792.9	2683.9	1032.4	686.4	669.7	661.0	693.5	690.3	608.8	540.7	538.3
62.5°	4949.7	2706.8	931.0	634.2	630.2	614.4	653.9	653.9	570.8	504.3	501.9
65°	5072.4	2684.7	828.1	582.7	590.6	566.8	605.7	600.9	530.4	471.8	468.7
67.5°	5180.9	2611.8	714.1	532.0	550.2	520.2	554.9	543.9	486.1	439.4	436.2
70°	5229.1	2442.4	584.2	481.3	503.5	474.3	504.3	483.7	436.2	404.6	398.2
72.5°	4841.2	2029.9	460.0	428.3	447.3	423.5	449.7	425.9	382.4	368.2	356.3
75°	4005.2	1523.3	353.9	370.5	384.8	366.5	384.0	366.5	327.0	337.2	308.0
77.5°	2908.6	1028.4	270.8	309.5	315.9	306.4	321.4	301.7	266.0	263.6	251.7
80°	1446.4	602.5	212.2	244.7	242.2	236.0	253.4	243.8	213.7	226.4	224.1
82.5°	418.8	258.1	154.4	171.8	167.1	168.6	181.3	186.0	278.7	276.3	282.6
85°	131.4	101.4	92.7	95.8	91.0	93.4	106.9	212.2	196.4	114.8	124.3
87.5°	34.0	34.8	23.0	24.5	25.3	30.1	34.0	129.0	61.7	40.4	42.7
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)