

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: P965735

Luminaire Tested: **NVN-SB4A-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4A-827-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15926.5 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

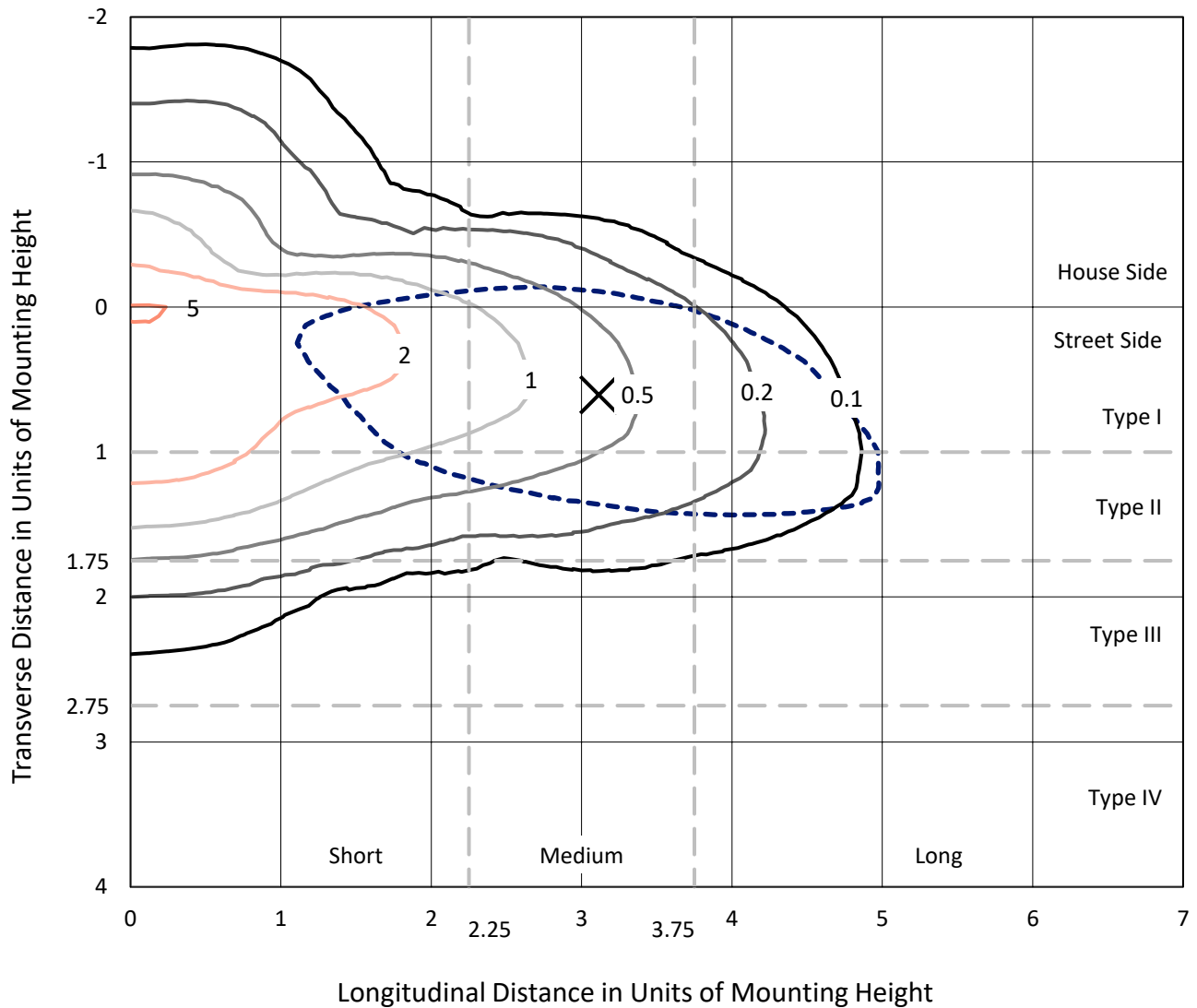
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

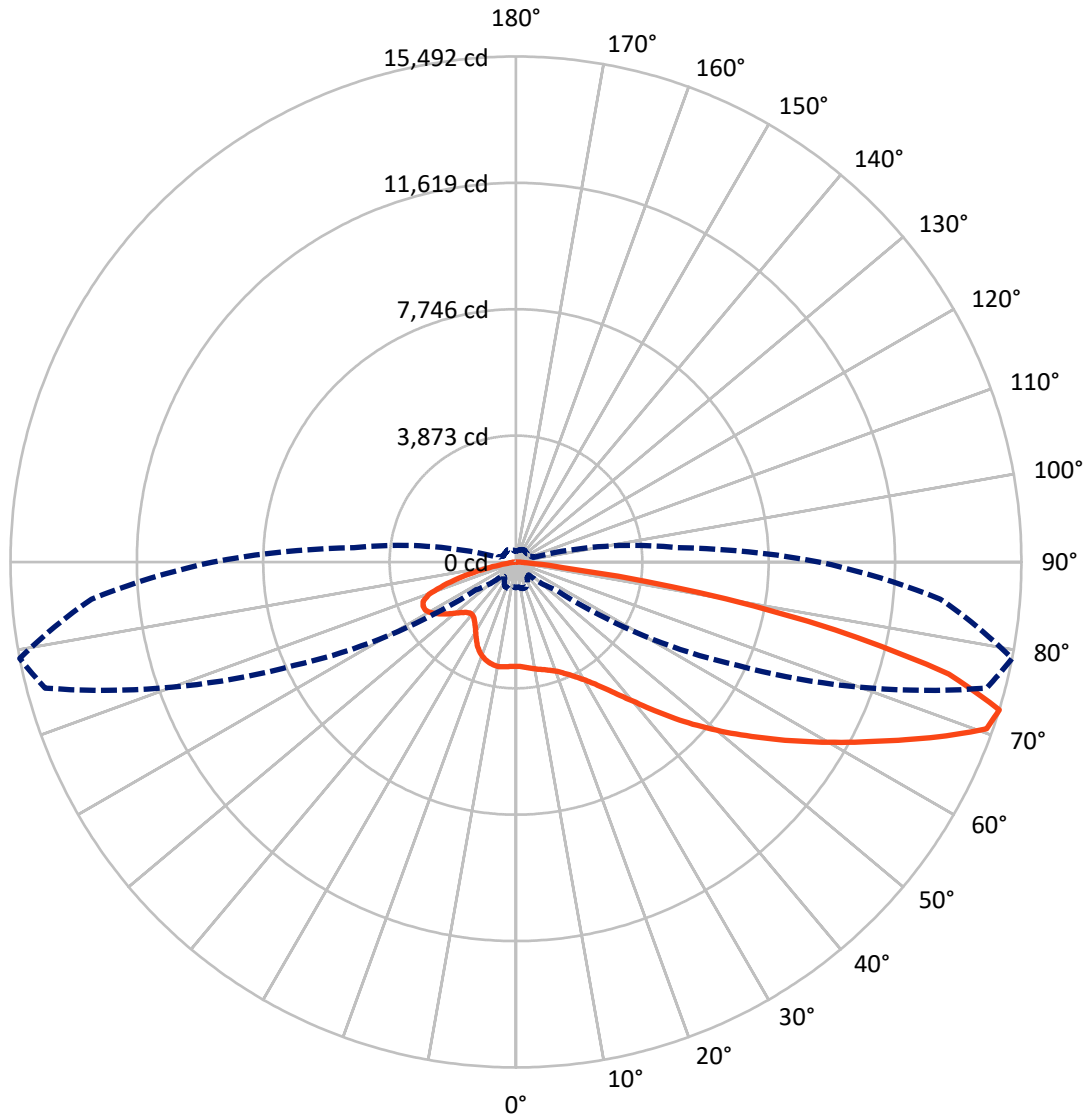
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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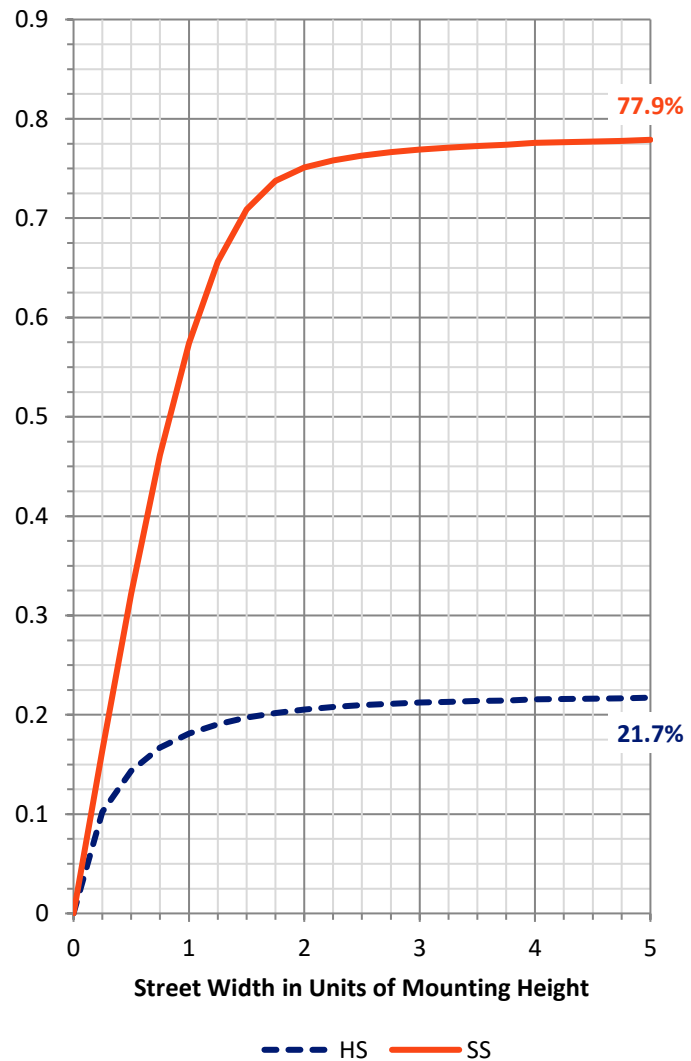
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3504.7	0.0	3504.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	12421.8	0.0	12421.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	15926.5	0.0	15926.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	1.8
10°-20°	758.7	4.8
20°-30°	1224.3	7.7
30°-40°	1837.5	11.5
40°-50°	2606.6	16.4
50°-60°	3291.8	20.7
60°-70°	3343.2	21.0
70°-80°	2278.6	14.3
80°-90°	295.6	1.9
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°	15926.5	100.0
0°-180°	15926.5	100.0



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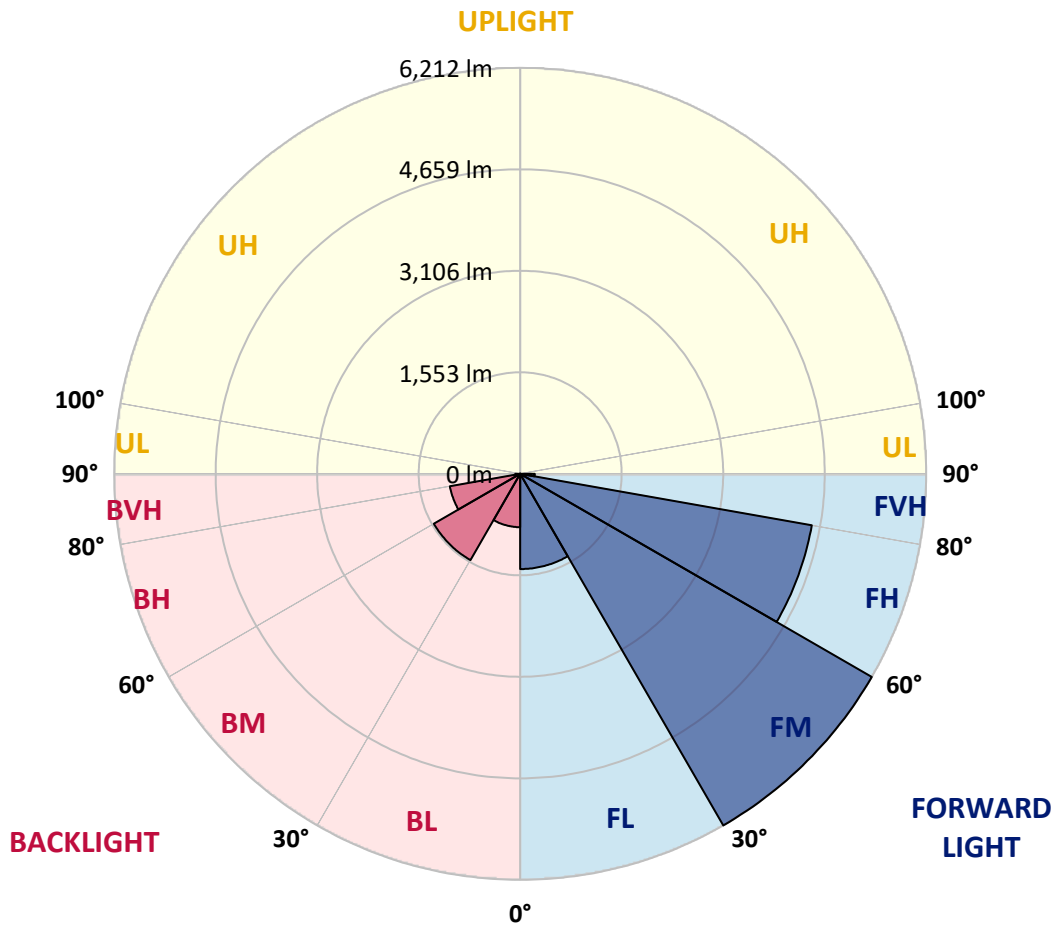
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1456.9	9.1			
FM (30°-60°)	6211.6	39.0			
FH (60°-80°)	4530.5	28.4			G2/5000
FVH (80°-90°)	222.7	1.4			G2/225
BL (0°-30°)	816.3	5.1	B2/1000		
BM (30°-60°)	1524.2	9.6	B2/2500		
BH (60°-80°)	1091.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	72.9	0.5			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°	79°	85°
0°	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1
2.5°	3198.7	3183.6	3192.9	3189.5	3193.7	3198.7	3200.5	3203.0	3211.4	3210.6	3209.7
5°	3192.1	3176.9	3189.5	3185.3	3196.3	3208.0	3218.2	3227.4	3240.8	3246.8	3238.4
7.5°	3177.7	3167.6	3180.3	3192.9	3213.1	3230.8	3245.1	3266.2	3285.5	3288.9	3294.8
10°	3094.3	3086.7	3116.2	3149.1	3204.7	3252.7	3283.9	3308.3	3329.3	3332.7	3341.2
12.5°	3007.6	2998.2	3031.1	3075.8	3165.9	3252.7	3318.4	3350.4	3369.0	3379.9	3392.5
15°	2993.2	2985.6	3004.2	3042.9	3117.8	3230.0	3342.0	3401.0	3416.9	3429.5	3434.7
17.5°	3062.3	3047.9	3055.5	3069.1	3112.8	3208.9	3360.6	3458.2	3482.6	3496.2	3496.2
20°	3222.4	3202.1	3190.3	3163.4	3155.8	3212.2	3358.8	3527.3	3559.3	3576.2	3580.4
22.5°	3435.5	3422.1	3396.7	3328.5	3254.4	3253.6	3390.8	3615.8	3675.5	3691.6	3681.5
25°	3693.3	3673.1	3641.0	3548.3	3406.0	3335.2	3444.7	3728.6	3828.9	3833.1	3803.7
27.5°	3989.8	3959.5	3915.7	3793.5	3601.4	3463.3	3527.3	3858.4	4005.0	4003.3	3942.7
30°	4302.3	4272.0	4225.7	4077.4	3835.7	3636.0	3641.9	3998.2	4213.9	4204.7	4101.0
32.5°	4530.7	4508.0	4498.6	4384.1	4105.2	3839.9	3773.3	4153.3	4471.7	4463.3	4318.4
35°	4705.9	4676.5	4687.3	4629.2	4399.3	4068.1	3934.3	4337.8	4785.1	4784.3	4604.0
37.5°	4879.4	4853.4	4862.6	4823.9	4671.3	4358.0	4130.5	4563.5	5173.5	5192.0	4949.4
40°	5037.9	5010.0	5047.1	5010.9	4882.8	4666.3	4353.8	4818.8	5623.4	5658.7	5367.2
42.5°	5133.0	5111.2	5172.7	5173.5	5066.5	4926.7	4598.9	5100.2	6144.0	6223.2	5881.1
45°	5165.9	5158.3	5251.0	5270.3	5229.0	5077.4	4819.7	5406.8	6705.0	6846.6	6466.6
47.5°	5130.5	5116.2	5244.2	5315.9	5348.7	5148.2	5002.4	5738.8	7277.9	7485.2	7105.2
50°	4951.9	4924.1	5114.4	5265.3	5382.4	5194.5	5186.9	6122.0	7929.1	8155.7	7747.2
52.5°	4631.0	4609.8	4826.4	5088.4	5308.3	5217.2	5394.2	6540.7	8547.5	8840.6	8405.1
55°	4220.6	4192.9	4431.3	4773.3	5123.8	5209.7	5601.4	7009.2	9277.0	9574.4	9085.0
57.5°	3570.3	3514.7	3816.3	4220.6	4823.0	5200.4	5817.1	7475.0	10018.3	10374.7	9810.3
60°	2621.6	2539.1	2909.0	3388.3	4235.0	5110.2	6084.2	7997.4	10907.9	11229.0	10602.2
62.5°	1526.5	1478.5	1720.3	2167.6	3192.1	4579.5	6234.2	8604.8	11782.5	12119.4	11380.6
65°	1185.3	1171.9	1192.9	1227.4	1776.7	3428.7	5771.6	9197.0	12894.5	13130.4	12191.9
67.5°	1084.2	1074.1	1083.4	1018.5	901.4	1909.8	4566.1	9347.0	14085.7	14228.9	12902.1
70°	963.8	951.9	982.3	926.7	709.3	868.6	2950.3	8802.7	15033.5	15302.2	13442.1
72.5°	785.2	771.7	842.4	817.1	597.3	557.7	1481.8	7509.6	14934.0	15491.7	13055.4
75°	603.2	595.6	679.9	700.9	487.0	438.9	711.0	5582.0	13142.1	13704.0	11251.7
77.5°	468.4	462.5	505.4	582.1	392.6	340.3	437.3	3540.8	9903.8	10002.4	7753.9
80°	351.3	334.5	374.0	450.7	305.8	248.6	296.5	2064.9	6260.2	5674.7	3374.8
82.5°	219.9	211.5	244.4	300.7	215.7	171.0	192.9	1140.7	2508.8	1477.6	651.2
85°	125.6	122.2	133.1	171.9	117.1	98.6	110.4	503.8	458.3	315.1	196.3
87.5°	50.5	48.9	60.7	76.7	42.9	36.2	38.7	121.4	101.1	93.5	64.9
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°	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1
2.5°	3206.3	3206.3	3194.5	3176.1	3155.0	3141.5	3119.6	3113.6	3090.9	3084.2	3095.2
5°	3245.1	3238.4	3202.1	3149.9	3078.3	3012.6	2940.1	2894.6	2830.6	2807.9	2824.7
7.5°	3293.9	3275.4	3213.1	3098.5	2948.5	2801.1	2647.8	2531.5	2420.3	2380.8	2385.8
10°	3338.6	3312.5	3206.3	3005.8	2746.4	2491.2	2246.8	2075.8	1946.1	1893.0	1904.8
12.5°	3383.2	3335.2	3161.7	2851.7	2459.1	2112.8	1852.6	1719.4	1639.4	1575.4	1596.4
15°	3425.3	3358.0	3092.6	2645.3	2144.0	1792.7	1600.6	1494.4	1430.5	1388.4	1395.9
17.5°	3474.2	3377.4	2989.0	2383.3	1844.1	1571.1	1414.5	1350.4	1337.8	1332.7	1336.1
20°	3542.5	3395.1	2852.5	2090.1	1623.4	1394.2	1313.3	1307.5	1306.7	1304.1	1312.5
22.5°	3615.8	3416.1	2672.3	1823.9	1435.5	1283.9	1269.6	1257.8	1250.2	1249.4	1258.6
25°	3702.5	3422.9	2446.5	1605.7	1275.5	1231.6	1214.8	1197.1	1192.1	1192.1	1197.1
27.5°	3786.8	3400.1	2183.7	1416.1	1185.3	1183.7	1161.7	1155.8	1155.0	1157.5	1164.3
30°	3871.0	3357.2	1922.5	1241.0	1133.1	1133.1	1125.6	1129.8	1133.1	1141.5	1147.4
32.5°	3984.8	3311.7	1704.3	1111.2	1087.6	1079.2	1086.7	1095.2	1098.6	1109.5	1118.8
35°	4151.6	3279.7	1530.7	1040.4	1040.4	1029.5	1033.7	1032.0	1024.4	1019.4	1031.1
37.5°	4372.3	3278.0	1387.5	1007.6	1000.8	999.2	1000.0	989.0	959.5	924.1	925.0
40°	4637.7	3323.5	1277.1	984.8	979.8	989.8	984.8	955.3	874.4	812.9	811.3
42.5°	4994.0	3453.2	1206.4	957.0	972.2	984.8	964.6	862.6	807.9	766.6	765.0
45°	5413.5	3663.8	1170.1	927.5	957.9	973.0	875.4	830.7	786.9	737.2	733.8
47.5°	5888.7	3929.1	1161.7	899.7	925.9	935.1	837.4	817.1	767.4	713.5	709.3
50°	6405.9	4243.4	1184.5	866.8	879.6	847.5	824.7	806.3	754.8	701.7	695.9
52.5°	6940.9	4589.6	1230.0	822.3	833.2	797.8	819.7	803.7	747.2	675.7	670.6
55°	7466.6	4938.4	1273.8	770.0	786.0	753.2	805.3	793.6	712.7	631.8	627.6
57.5°	8000.7	5285.5	1316.7	723.6	740.5	710.2	782.6	766.6	673.9	591.4	589.7
60°	8555.9	5622.5	1337.0	679.1	690.8	670.6	748.0	720.3	630.2	550.1	547.6
62.5°	9075.7	5903.0	1304.1	634.4	642.0	633.6	702.6	665.5	586.3	503.8	503.0
65°	9597.2	6069.8	1203.0	590.6	592.2	588.0	638.6	606.6	534.9	463.3	458.3
67.5°	10069.8	6163.3	1042.1	543.4	539.2	537.5	578.7	542.5	485.2	422.9	417.9
70°	10170.0	5925.7	796.1	487.8	487.8	483.6	513.0	476.0	430.5	380.0	378.2
72.5°	9288.9	4984.8	565.3	424.6	431.3	422.9	447.3	416.2	374.8	341.2	331.1
75°	7490.2	3655.4	411.1	359.8	371.6	357.2	380.0	358.0	322.7	321.8	289.8
77.5°	5146.5	2260.3	298.3	296.5	304.9	286.4	312.5	300.7	268.8	254.4	238.4
80°	2196.3	901.4	217.3	229.2	229.2	212.3	242.6	246.0	218.2	211.5	211.5
82.5°	437.3	256.1	152.5	157.5	148.3	143.2	171.9	190.3	262.8	292.3	293.2
85°	131.4	94.4	91.8	85.9	75.8	76.7	101.1	191.3	235.9	134.8	116.2
87.5°	36.2	23.6	24.4	19.4	16.0	21.0	34.5	144.9	79.2	33.7	28.6
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)