

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: P971002

Luminaire Tested: **NVN-SB6C-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6C-827-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41167.1 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

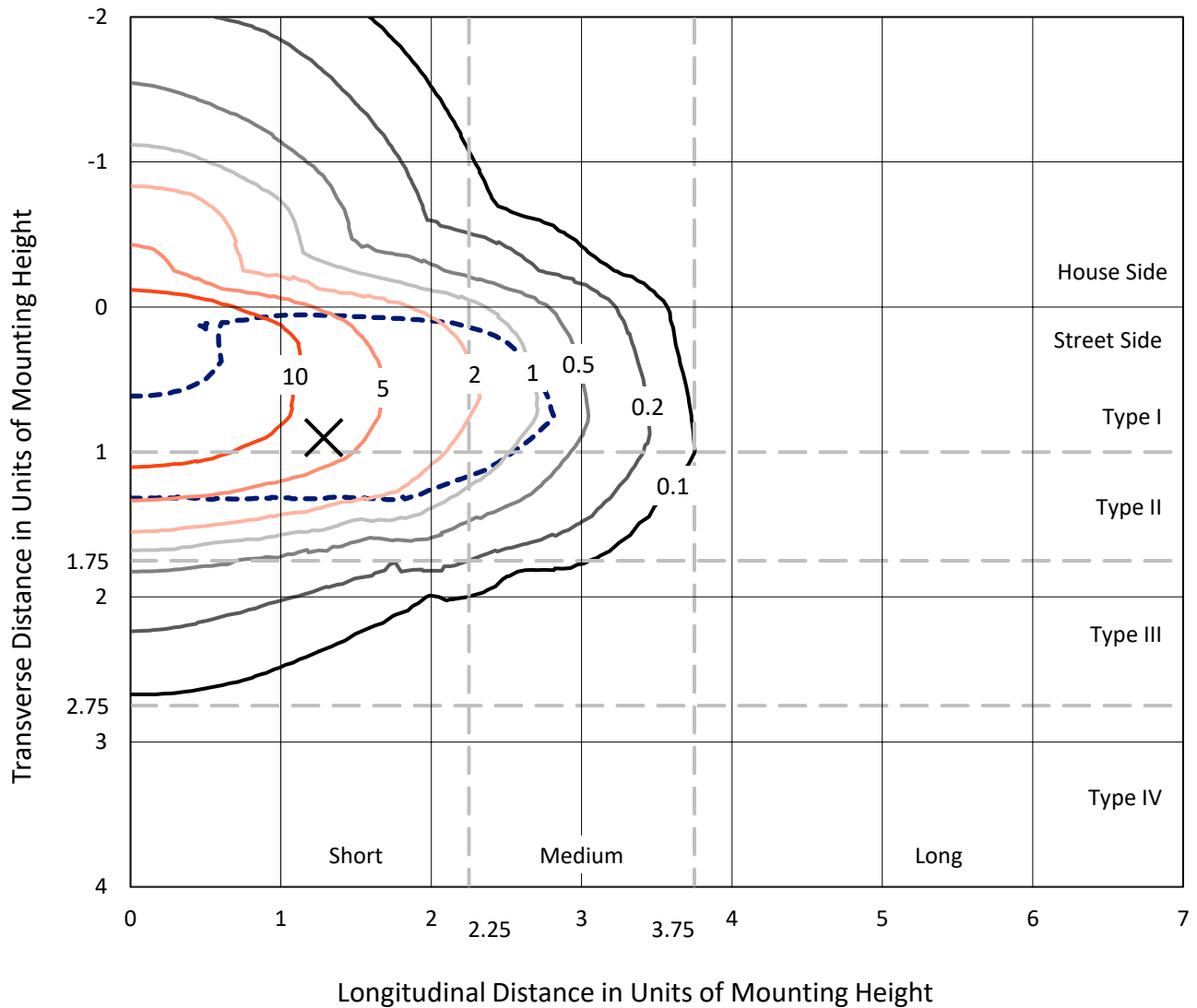
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

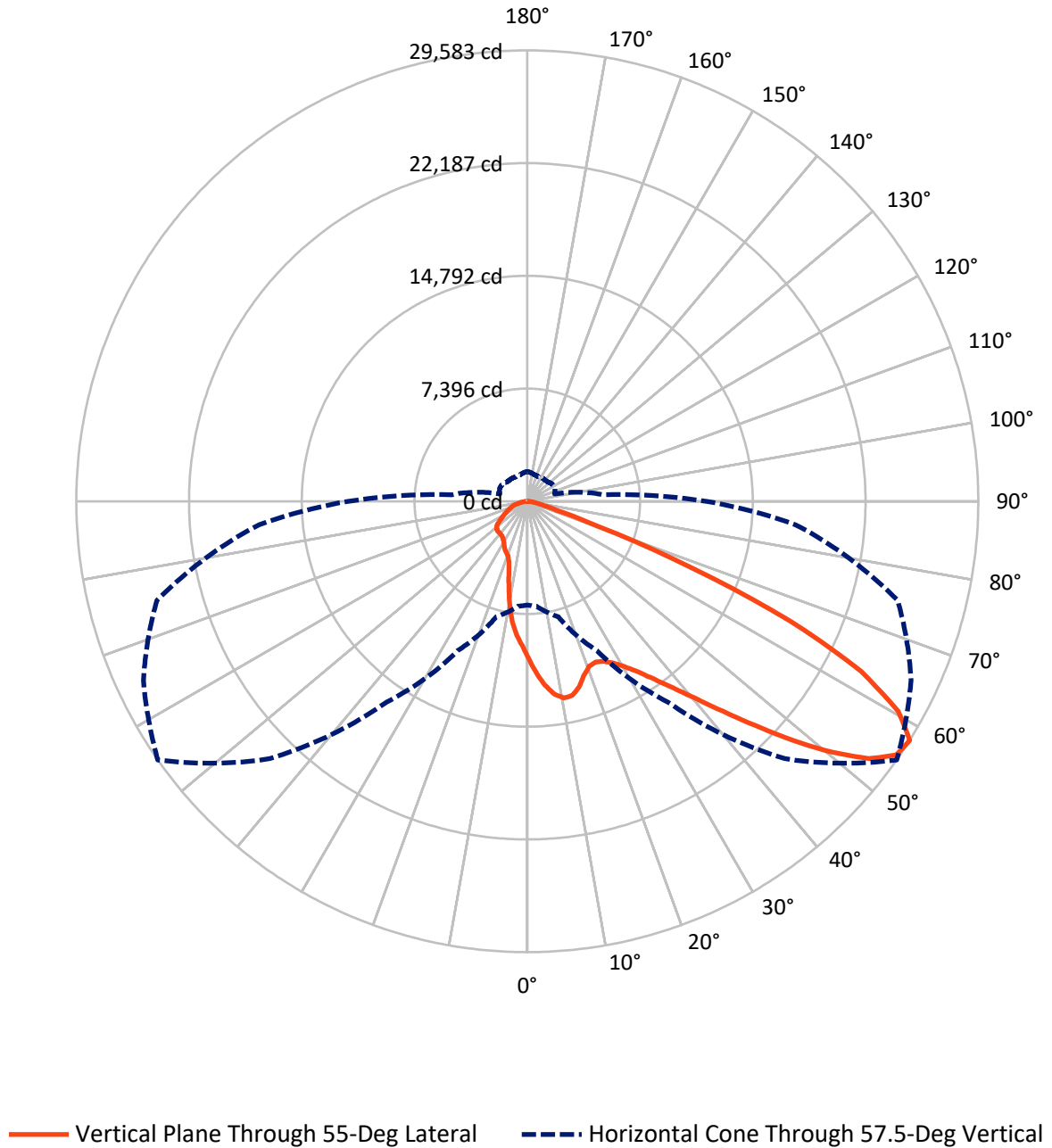
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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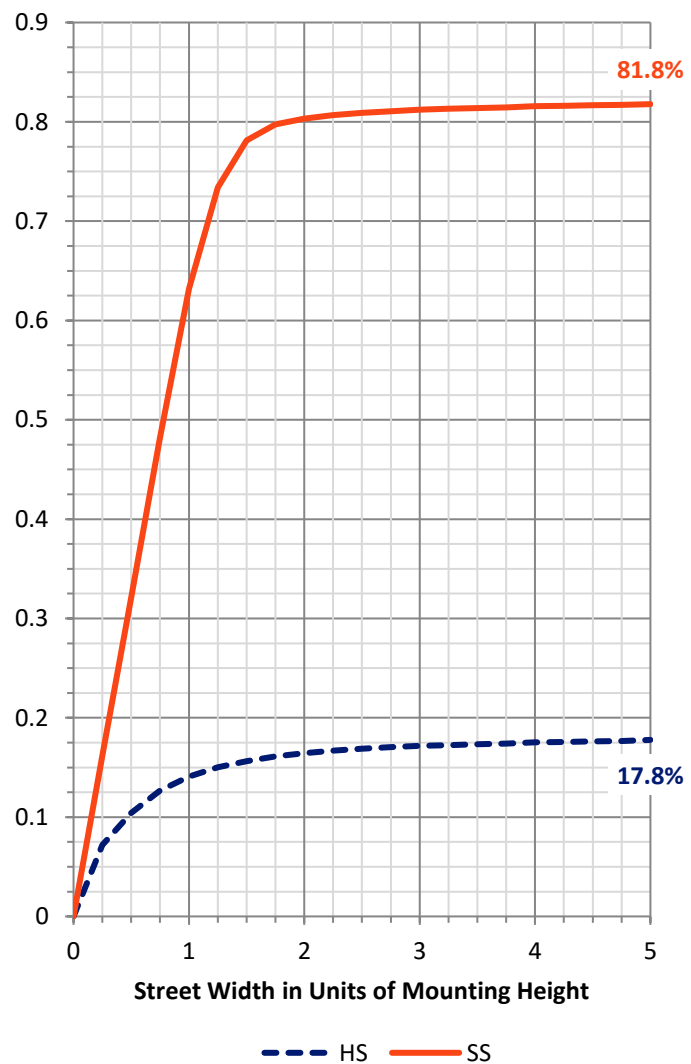
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7449.0	0.0	7449.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	33718.1	0.0	33718.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	41167.1	0.0	41167.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	957.2	2.3
10°-20°	2416.0	5.9
20°-30°	3855.2	9.4
30°-40°	6103.7	14.8
40°-50°	9342.4	22.7
50°-60°	10006.6	24.3
60°-70°	6295.2	15.3
70°-80°	1861.6	4.5
80°-90°	329.2	0.8
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°	41167.1	100.0
0°-180°	41167.1	100.0

Coefficient of Utilization



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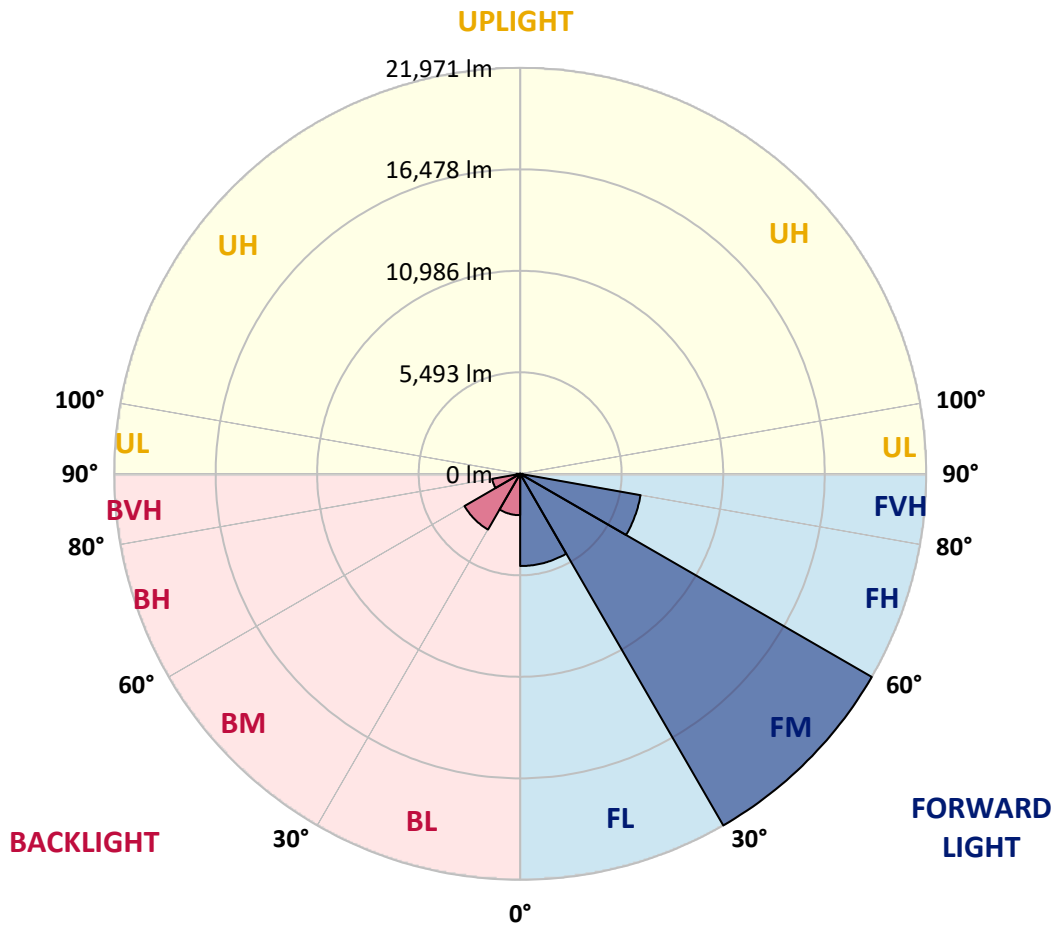
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4989.4	12.1			
FM (30°-60°)	21971.2	53.4			
FH (60°-80°)	6618.4	16.1			G3/7500
FVH (80°-90°)	139.1	0.3			G2/225
BL (0°-30°)	2238.9	5.4	B3/2500		
BM (30°-60°)	3481.6	8.5	B3/5000		
BH (60°-80°)	1538.4	3.7	B3/2500		G3/2500
BVH (80°-90°)	190.1	0.5			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10315.1	10315.1	10315.1	10315.1	10315.1	10315.1	10315.1	10315.1	10315.1	10315.1	10315.1
2.5°	11834.6	11826.1	11873.0	11713.3	11604.7	11458.0	11264.2	11017.4	10751.4	10470.5	10349.2
5°	12900.9	12826.3	12875.3	12756.1	12636.9	12415.6	12128.3	11726.1	11234.5	10674.8	10376.9
7.5°	12732.8	12681.6	12807.2	12913.6	13002.9	12975.3	12764.6	12343.3	11709.1	10896.2	10464.1
10°	11377.1	11319.6	11496.3	11864.4	12405.0	12875.3	13130.7	12868.9	12194.3	11138.7	10549.2
12.5°	10181.0	10153.3	10270.4	10568.4	11168.5	12070.8	13083.8	13328.6	12698.6	11426.0	10664.1
15°	9670.3	9636.2	9710.7	9861.8	10244.9	11085.5	12658.2	13643.6	13194.5	11758.0	10847.2
17.5°	9557.5	9519.2	9551.2	9629.9	9876.7	10517.3	12015.6	13799.0	13711.6	12128.3	11000.4
20°	9766.1	9734.1	9738.4	9734.1	9906.5	10415.1	11568.7	13739.3	14162.8	12468.8	11149.3
22.5°	10270.4	10217.2	10219.4	10106.6	10200.2	10593.9	11451.6	13579.7	14565.0	12766.8	11262.2
25°	11091.9	10996.1	11015.3	10728.0	10702.4	10994.0	11634.6	13456.3	14965.1	13005.1	11283.4
27.5°	12215.5	12107.0	12049.6	11621.9	11417.5	11562.2	12007.1	13498.8	15343.9	13211.5	11230.2
30°	13620.1	13488.2	13371.1	12764.6	12394.3	12341.1	12585.9	13779.8	15790.8	13428.6	11138.7
32.5°	15341.8	15188.6	14975.8	14171.3	13649.9	13371.1	13334.9	14279.9	16314.4	13705.3	11091.9
35°	17391.2	17191.2	16889.0	15848.3	15188.6	14618.2	14322.4	15001.3	17031.6	14122.3	11145.1
37.5°	19502.4	19276.8	19000.1	17761.5	16950.7	16110.1	15527.0	15980.3	17987.1	14688.5	11285.6
40°	21449.6	21196.4	20938.8	19836.5	18966.1	17953.1	17001.8	17218.9	19155.5	15365.3	11523.9
42.5°	22598.8	22411.5	22313.6	21717.7	21045.3	20017.3	18836.2	18687.3	20468.5	16144.2	11796.3
45°	22547.7	22471.1	22773.3	23020.2	22860.6	22290.3	20985.6	20311.1	21785.9	16818.7	12047.4
47.5°	21343.2	21394.3	22068.9	23456.4	24067.2	24365.2	23433.0	21905.1	22930.8	17323.1	12160.2
50°	18065.8	18108.4	19670.5	22662.6	24378.0	26057.0	25861.3	23460.7	23818.2	17631.7	12134.7
52.5°	15471.7	15499.3	16169.7	20308.9	23352.2	26908.3	28049.0	24927.0	24467.4	17716.8	11992.1
55°	11653.7	11749.5	12500.7	15933.4	20683.5	26233.6	29381.2	26438.0	24878.1	17725.3	11843.2
57.5°	6807.9	6912.2	7840.1	10815.3	16076.0	23882.1	29583.3	27778.7	25156.9	17657.3	11753.8
60°	3334.8	3379.5	3783.9	5684.2	9912.9	19351.3	27957.5	28427.8	25312.2	17621.1	11749.5
62.5°	2247.3	2241.0	2258.0	2804.9	4884.1	12432.6	24569.5	27291.3	25229.1	17482.7	11706.9
65°	1932.3	1909.0	1845.1	1968.5	2530.4	5686.4	18983.1	23899.1	24597.1	17135.8	11415.4
67.5°	1670.5	1672.7	1674.8	1636.5	1806.8	2624.0	11600.5	18825.6	22328.5	15492.9	10291.7
70°	1383.3	1402.4	1410.9	1410.9	1472.7	1721.7	4952.2	12903.0	17612.6	12147.5	8289.2
72.5°	1259.8	1219.4	1223.6	1202.4	1202.4	1311.0	1994.0	7314.4	11096.1	6833.5	5058.6
75°	1027.9	1053.4	1057.7	1042.8	993.8	1000.2	1183.3	3068.7	4747.9	2834.7	2500.6
77.5°	887.4	887.4	896.0	885.3	847.0	749.1	789.6	1189.6	1615.3	1161.9	1249.3
80°	712.9	710.8	747.0	768.2	708.7	553.3	504.4	657.6	717.2	510.8	649.1
82.5°	346.9	368.2	512.9	585.3	538.4	400.1	308.6	408.6	383.0	225.6	291.5
85°	202.1	191.6	229.8	325.6	308.6	221.3	148.9	212.8	200.1	114.9	117.1
87.5°	63.9	59.6	46.8	110.7	89.4	61.7	40.4	61.7	55.4	25.5	25.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10315.1	10315.1	10315.1	10315.1	10315.1	10315.1	10315.1	10315.1	10315.1	10315.1
2.5°	10198.1	9947.0	9697.9	9470.3	9331.9	9242.5	9153.1	9053.1	9014.9	8957.4
5°	10095.9	9610.7	9178.7	8806.3	8467.9	8201.8	7933.7	7716.7	7618.7	7684.7
7.5°	10036.4	9334.1	8667.9	7984.9	7327.2	6801.6	6344.0	6022.7	5878.0	5914.1
10°	9983.2	9021.2	8006.1	6927.2	5982.2	5331.0	4862.8	4618.0	4526.6	4545.8
12.5°	9934.2	8670.1	7208.0	5788.6	4784.1	4354.2	4220.1	4222.3	4239.3	4252.0
15°	9925.7	8246.5	6316.4	4792.6	4137.1	4109.4	4254.2	4345.7	4394.6	4409.5
17.5°	9912.9	7740.1	5407.6	4113.7	3979.7	4166.9	4301.0	4360.6	4398.9	4401.0
20°	9861.8	7097.4	4569.1	3790.2	3945.6	4107.3	4190.3	4237.1	4269.0	4279.7
22.5°	9704.4	6382.3	3915.8	3645.5	3809.4	3939.2	4037.1	4090.3	4109.4	4122.2
25°	9421.3	5582.2	3464.6	3507.1	3620.0	3783.9	3862.6	3873.3	3866.8	3886.0
27.5°	9051.1	4724.5	3183.8	3319.9	3464.6	3605.1	3647.7	3641.2	3628.5	3649.8
30°	8604.1	3954.1	3005.0	3109.2	3307.2	3434.9	3473.1	3458.2	3432.7	3456.1
32.5°	8131.6	3324.2	2858.1	2962.4	3177.3	3302.9	3341.2	3326.3	3307.2	3326.3
35°	7691.1	2883.6	2721.9	2864.5	3075.2	3198.6	3247.5	3249.7	3249.7	3273.1
37.5°	7286.8	2626.2	2609.1	2802.8	3005.0	3115.6	3185.8	3190.1	3098.6	3104.9
40°	6912.2	2517.6	2558.0	2762.4	2936.8	3043.2	3047.5	2809.1	2641.0	2636.8
42.5°	6605.8	2496.3	2573.0	2758.1	2887.9	2892.1	2592.1	2406.9	2360.2	2362.2
45°	6318.5	2489.9	2607.0	2758.1	2815.6	2498.4	2296.3	2247.3	2251.6	2268.6
47.5°	5997.1	2464.4	2613.3	2719.7	2607.0	2221.8	2162.2	2140.9	2132.4	2136.6
50°	5646.0	2372.9	2532.5	2643.2	2249.5	2102.6	2028.2	2021.7	2032.4	2038.7
52.5°	5275.7	2223.9	2394.2	2504.8	2085.6	1998.3	1915.3	1930.3	1977.0	1992.0
55°	5033.1	2049.4	2211.1	2228.1	1970.7	1900.5	1830.2	1864.3	1951.5	1979.2
57.5°	4969.2	1864.3	2002.5	1983.5	1823.8	1815.3	1772.7	1802.6	1913.2	1953.6
60°	4950.0	1698.2	1798.3	1783.4	1681.2	1721.7	1711.0	1725.9	1764.2	1777.0
62.5°	4801.1	1566.3	1615.3	1594.0	1553.6	1623.8	1649.3	1617.3	1647.2	1662.0
65°	4422.3	1459.9	1436.5	1421.6	1438.6	1502.4	1553.6	1489.7	1517.4	1559.9
67.5°	3796.6	1315.2	1251.3	1268.3	1321.5	1355.7	1421.6	1349.2	1372.7	1445.0
70°	3070.9	1132.2	1074.7	1123.7	1174.8	1245.0	1255.6	1206.6	1262.0	1342.9
72.5°	2172.8	947.0	906.6	1006.7	1023.7	1115.2	1091.7	1068.4	1144.9	1172.6
75°	1506.7	764.0	740.6	817.2	878.9	957.7	940.6	968.3	1130.1	1142.8
77.5°	953.5	593.8	578.8	627.8	712.9	800.2	827.9	1142.8	1930.3	2006.8
80°	553.3	442.7	425.6	463.9	538.4	619.3	798.1	1402.4	1272.6	1257.8
82.5°	308.6	304.3	283.0	293.7	359.7	446.9	1127.9	987.5	802.3	827.9
85°	144.7	178.8	153.2	146.9	202.1	523.6	753.4	564.0	374.5	366.0
87.5°	38.3	34.0	34.0	38.3	85.1	451.2	300.1	240.5	142.6	138.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)