

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: P963640

Luminaire Tested: **NVN-SB3A-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3A-827-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9167.6 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

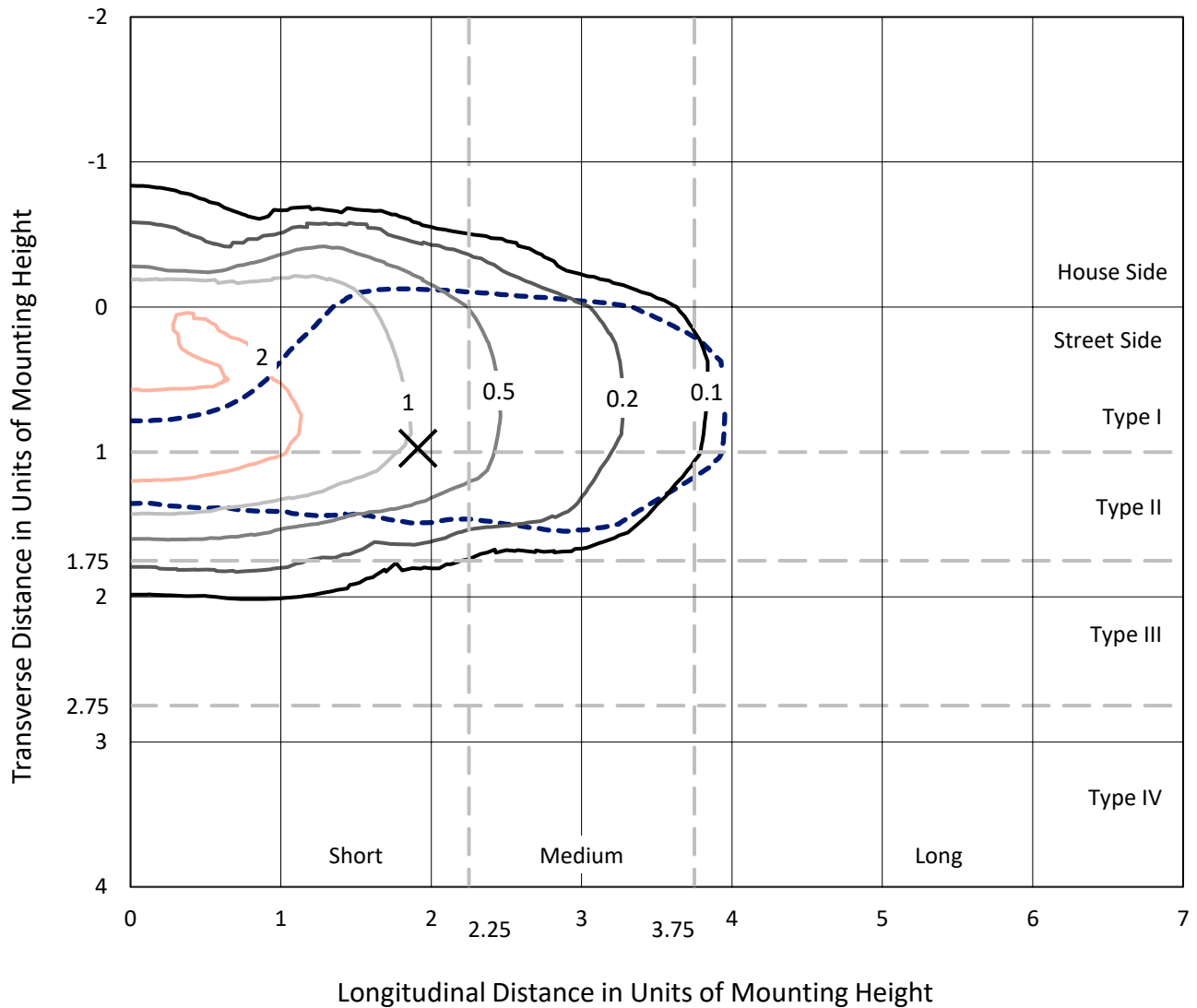
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

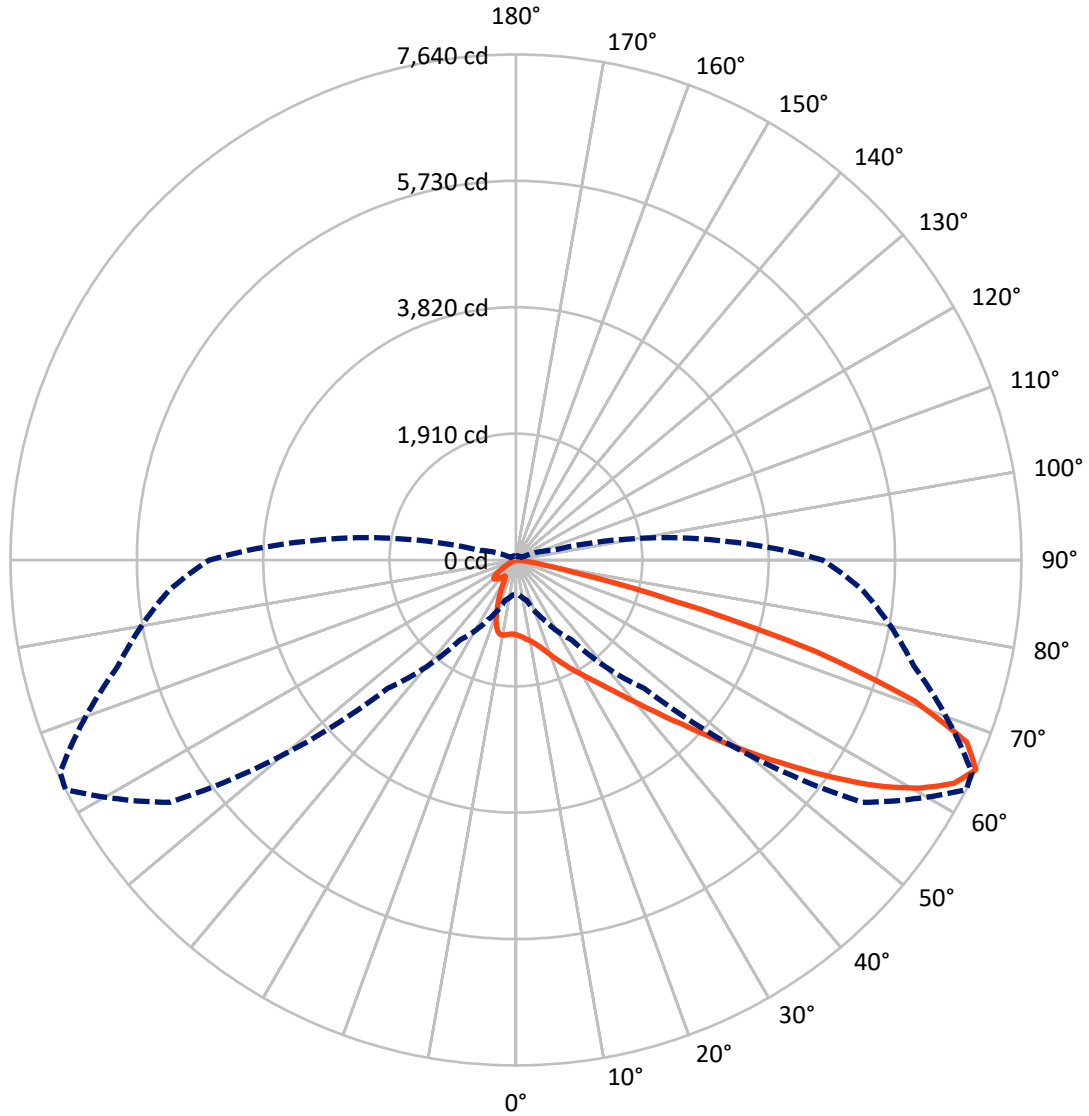
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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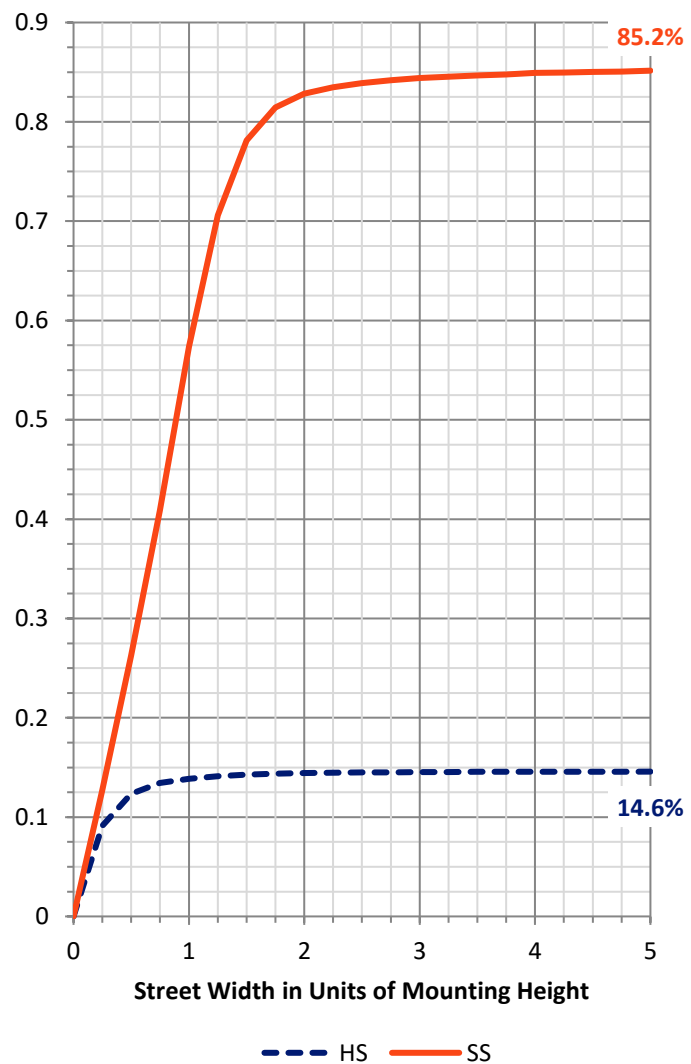
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1347.5	0.0	1347.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	7820.0	0.0	7820.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	9167.6	0.0	9167.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	1.2
10°-20°	295.8	3.2
20°-30°	515.0	5.6
30°-40°	928.3	10.1
40°-50°	1841.1	20.1
50°-60°	2507.9	27.4
60°-70°	2001.8	21.8
70°-80°	905.9	9.9
80°-90°	65.1	0.7
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°	9167.6	100.0
0°-180°	9167.6	100.0

Coefficient of Utilization



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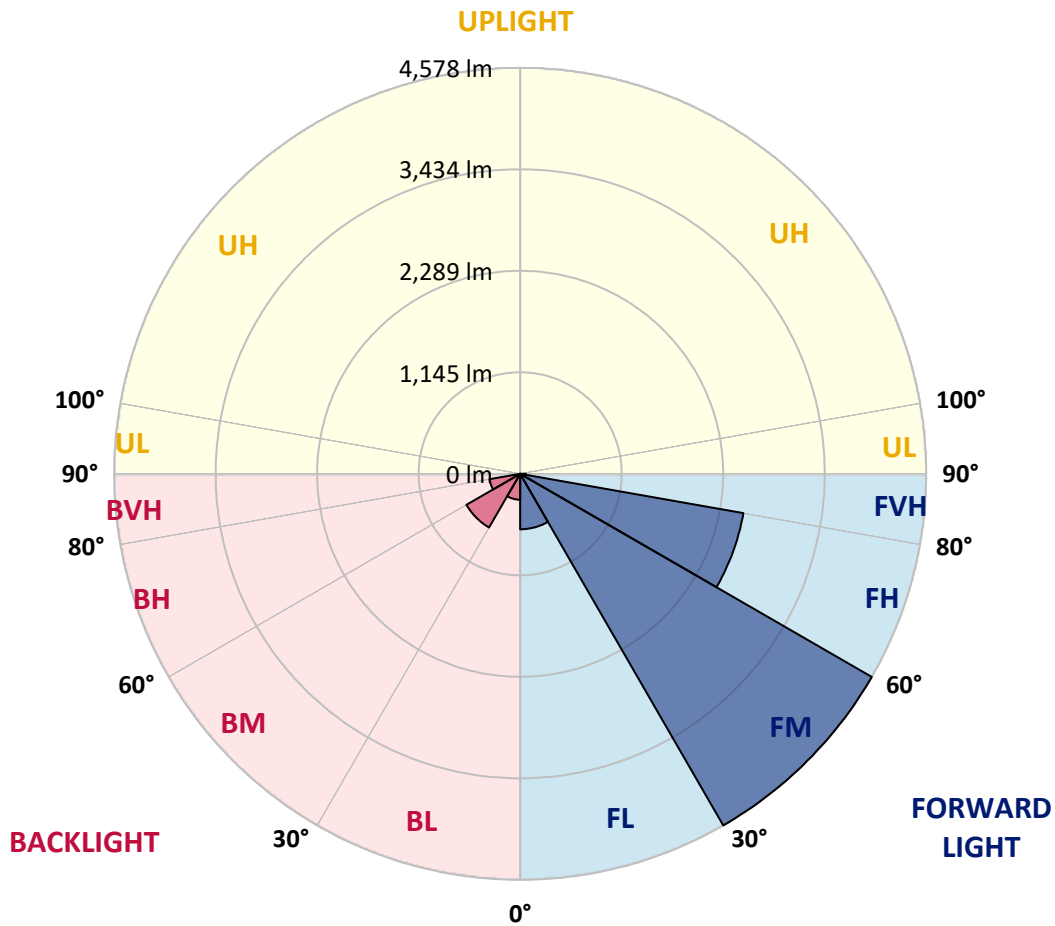
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	625.8	6.8			
FM (30°-60°)	4578.1	49.9			
FH (60°-80°)	2555.9	27.9			G2/5000
FVH (80°-90°)	60.3	0.7			G1/100
BL (0°-30°)	291.6	3.2	B1/500		
BM (30°-60°)	699.3	7.6	B1/1000		
BH (60°-80°)	351.8	3.8	B1/500		G1/500
BVH (80°-90°)	4.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5
2.5°	1157.9	1154.8	1159.2	1157.3	1156.1	1153.5	1152.3	1151.0	1148.5	1146.6	1139.0
5°	1161.1	1159.2	1163.6	1167.4	1171.2	1175.0	1176.9	1179.4	1176.9	1171.8	1164.3
7.5°	1134.6	1133.3	1142.8	1154.1	1171.2	1185.7	1201.5	1210.3	1210.9	1209.0	1200.8
10°	1132.7	1129.6	1139.0	1152.9	1175.0	1200.8	1228.6	1247.5	1250.0	1258.2	1249.4
12.5°	1162.4	1159.2	1172.5	1187.6	1210.3	1237.4	1271.5	1298.0	1301.8	1313.1	1306.8
15°	1212.2	1207.8	1222.9	1242.5	1271.5	1302.4	1338.3	1362.3	1365.4	1379.3	1368.0
17.5°	1270.2	1265.8	1283.4	1304.3	1335.8	1378.0	1419.7	1446.2	1450.0	1458.8	1438.0
20°	1344.6	1339.0	1352.8	1371.8	1405.2	1455.6	1505.4	1543.3	1542.6	1542.6	1508.6
22.5°	1431.0	1422.2	1434.2	1449.4	1480.8	1542.0	1608.2	1653.0	1653.0	1635.4	1579.2
25°	1523.8	1514.9	1528.2	1542.0	1569.8	1639.2	1716.8	1772.2	1774.8	1744.4	1655.0
27.5°	1639.8	1628.4	1638.6	1655.0	1671.4	1742.0	1834.0	1898.4	1899.6	1853.0	1726.8
30°	1863.0	1830.9	1799.4	1781.7	1789.2	1859.2	1957.6	2028.9	2035.2	1970.9	1805.0
32.5°	2271.7	2265.5	2154.4	2009.4	1933.7	1985.4	2095.8	2181.5	2185.3	2102.7	1906.6
35°	2906.8	2899.3	2720.8	2444.5	2197.9	2154.4	2263.5	2365.1	2362.5	2269.2	2038.4
37.5°	3664.9	3658.0	3422.8	3053.2	2653.9	2409.9	2479.9	2586.5	2602.3	2479.9	2208.7
40°	4312.7	4286.8	4137.9	3781.6	3259.4	2833.7	2787.7	2858.3	2874.7	2729.6	2425.0
42.5°	4803.4	4781.2	4705.6	4482.9	3992.3	3460.6	3150.3	3177.4	3195.7	3021.6	2673.5
45°	5057.5	5052.4	5082.7	5061.9	4739.0	4230.1	3668.7	3555.8	3562.8	3345.2	2955.4
47.5°	5093.4	5090.9	5229.0	5424.5	5381.0	5097.8	4334.1	4027.5	4002.9	3710.3	3262.0
50°	4881.6	4876.4	5141.4	5507.8	5809.9	5826.9	5089.6	4559.2	4505.0	4088.1	3581.7
52.5°	4204.8	4203.5	4638.7	5248.6	5960.7	6465.2	5836.3	5143.2	5052.4	4488.0	3919.7
55°	3235.4	3258.8	3757.6	4478.5	5685.7	6772.4	6506.8	5791.7	5652.3	4890.4	4231.3
57.5°	2291.9	2325.9	2819.2	3461.2	4833.0	6590.6	6960.3	6441.2	6291.1	5291.5	4547.3
60°	1231.1	1261.4	1755.2	2521.5	3595.6	5913.3	7199.3	7005.1	6863.2	5672.5	4832.4
62.5°	733.5	743.5	947.9	1627.8	2431.9	4517.6	7097.8	7434.5	7317.9	5992.2	5080.2
65°	526.6	528.5	631.3	993.9	1476.4	2744.7	6385.7	7640.1	7604.2	6233.1	5263.7
67.5°	443.4	442.1	485.0	660.3	1005.9	1374.9	4894.2	7349.5	7502.1	6385.7	5367.8
70°	380.3	382.2	432.7	483.7	756.2	778.3	2433.1	6399.0	6724.4	6426.1	5361.5
72.5°	283.2	289.5	336.2	440.9	570.8	535.5	840.1	4744.6	5333.1	6054.6	5083.4
75°	200.0	203.1	236.5	370.8	425.7	389.8	428.9	2452.7	3207.0	4641.9	4160.7
77.5°	153.9	159.6	179.1	259.2	419.4	273.7	262.4	848.9	1304.3	2804.0	2852.6
80°	83.2	93.4	129.3	187.3	294.5	193.6	130.0	338.0	442.1	1311.2	1099.9
82.5°	42.8	48.0	90.2	135.0	167.8	169.0	64.4	140.6	182.2	404.9	150.8
85°	17.0	20.8	60.6	74.4	86.4	83.2	29.0	56.8	65.6	112.2	46.0
87.5°	3.8	6.4	22.0	17.0	16.4	17.6	7.0	13.2	12.6	13.2	8.2
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°	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5
2.5°	1138.4	1135.9	1128.9	1121.4	1112.5	1107.5	1104.3	1103.7	1099.3	1096.1	1099.3
5°	1157.3	1154.8	1141.5	1125.8	1108.7	1095.5	1082.9	1071.5	1055.1	1052.0	1050.7
7.5°	1195.1	1188.2	1166.8	1145.3	1113.1	1074.7	1028.0	974.4	926.5	911.9	905.1
10°	1241.8	1232.4	1205.2	1167.4	1096.1	991.5	878.5	773.9	690.6	667.3	658.5
12.5°	1294.8	1286.6	1250.7	1180.7	1024.9	835.1	662.3	532.3	451.6	431.4	425.7
15°	1357.9	1345.9	1296.1	1160.5	897.5	634.5	454.7	377.8	348.8	345.0	341.2
17.5°	1424.7	1405.2	1336.4	1087.9	725.9	450.9	351.3	329.2	316.6	312.8	310.9
20°	1485.9	1460.6	1360.4	978.2	542.4	351.3	314.7	300.2	288.8	284.4	281.9
22.5°	1547.0	1511.2	1360.4	828.7	406.8	311.6	288.8	275.6	262.4	256.7	253.6
25°	1610.8	1562.8	1336.4	662.3	327.3	285.7	264.2	249.8	238.4	231.4	229.0
27.5°	1672.6	1606.4	1281.6	504.5	291.4	263.0	241.6	227.7	217.0	211.9	211.9
30°	1731.2	1649.2	1204.6	382.8	268.0	240.9	220.8	208.8	198.0	193.0	193.6
32.5°	1810.7	1703.4	1122.6	314.1	247.8	220.1	201.8	190.4	181.0	177.2	177.2
35°	1921.1	1783.6	1052.0	308.4	230.8	203.1	184.8	174.0	164.6	161.4	161.4
37.5°	2077.5	1912.9	1014.7	346.2	217.0	188.0	170.9	159.6	150.8	148.2	147.6
40°	2270.5	2088.2	1034.9	384.1	207.5	174.7	158.3	147.0	139.4	136.2	135.6
42.5°	2499.5	2304.5	1146.6	413.1	201.2	163.4	146.4	133.7	128.6	127.4	127.4
45°	2762.4	2542.3	1317.5	444.0	191.1	152.6	134.4	124.8	121.1	120.4	119.8
47.5°	3061.4	2803.4	1515.6	482.5	181.0	142.6	124.8	118.6	115.4	114.2	114.2
50°	3357.8	3066.4	1719.2	503.9	172.8	133.0	117.3	112.2	109.8	109.1	109.1
52.5°	3668.1	3337.0	1883.8	483.7	165.8	125.5	111.0	107.2	104.7	104.0	104.0
55°	3963.9	3555.8	1912.2	410.6	152.0	118.0	104.0	102.2	99.0	99.0	98.4
57.5°	4218.7	3665.6	1711.6	301.5	138.2	106.6	97.2	95.2	92.7	92.0	91.4
60°	4452.7	3634.0	1321.3	203.1	123.0	95.2	88.3	87.0	84.6	81.4	80.8
62.5°	4584.5	3495.2	903.7	132.4	107.8	83.2	78.2	77.6	71.9	65.6	64.4
65°	4634.3	3210.2	563.9	96.5	90.2	71.2	67.4	66.2	58.0	51.0	50.4
67.5°	4590.8	2741.0	284.4	76.4	71.2	59.2	55.5	55.5	49.8	43.6	42.8
70°	4416.7	2054.8	119.8	61.2	54.8	45.4	45.4	48.0	42.2	35.4	34.6
72.5°	4038.9	1382.5	63.7	46.6	41.0	32.2	37.2	39.1	33.4	26.4	26.4
75°	3210.8	843.3	44.2	34.6	25.8	22.8	28.4	29.6	22.8	17.6	17.0
77.5°	2196.1	484.4	29.6	22.0	16.4	13.2	19.6	18.2	12.0	8.2	8.8
80°	964.3	201.8	17.0	10.0	6.4	5.0	7.0	5.0	3.8	2.6	2.6
82.5°	112.9	47.3	6.4	3.8	2.6	1.2	0.6	0.0	0.0	0.0	0.0
85°	23.4	5.6	3.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)