

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: P959937

Luminaire Tested: **NVN-SB1B-827-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1B-827-U-SL2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4069.3 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

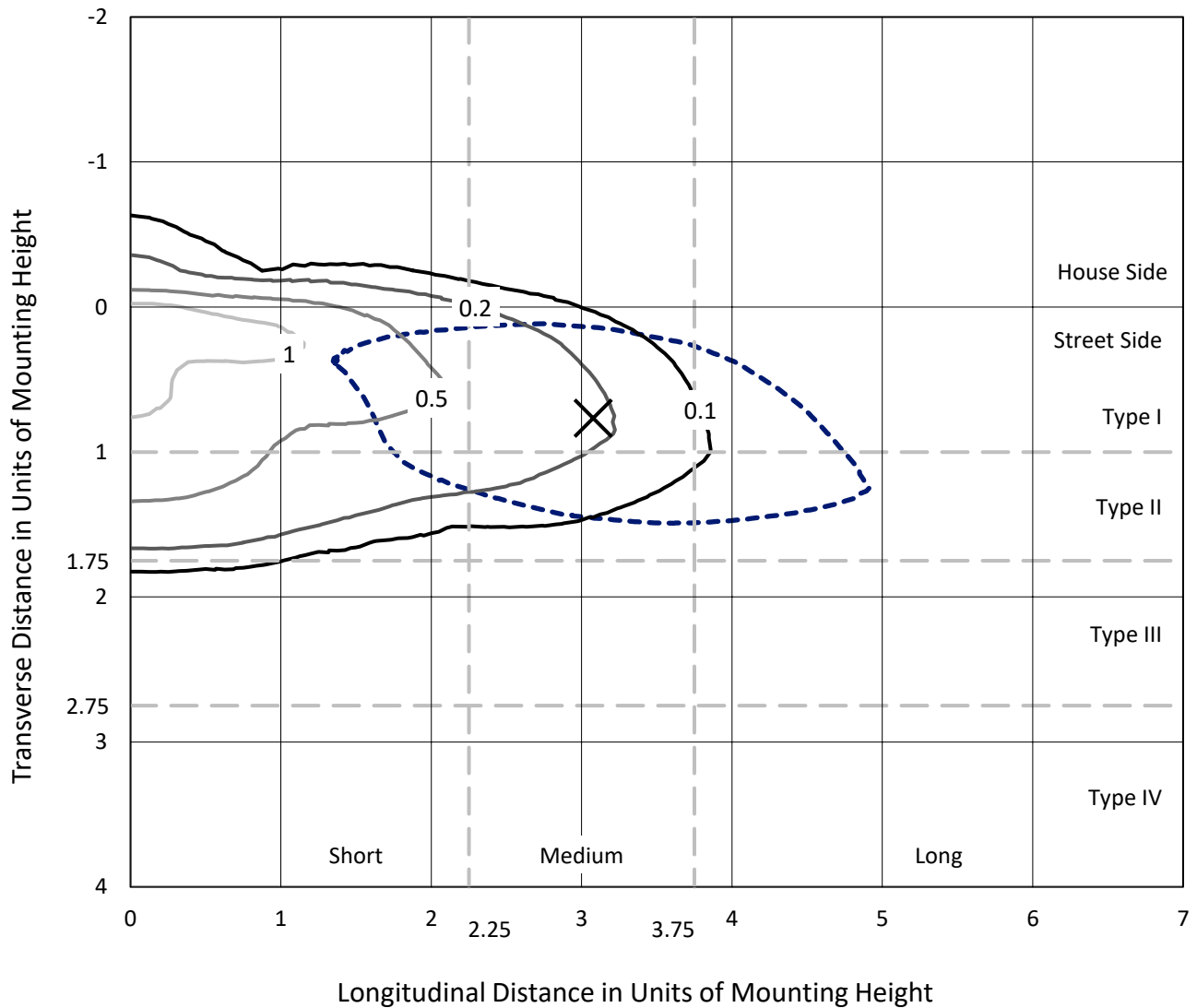
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

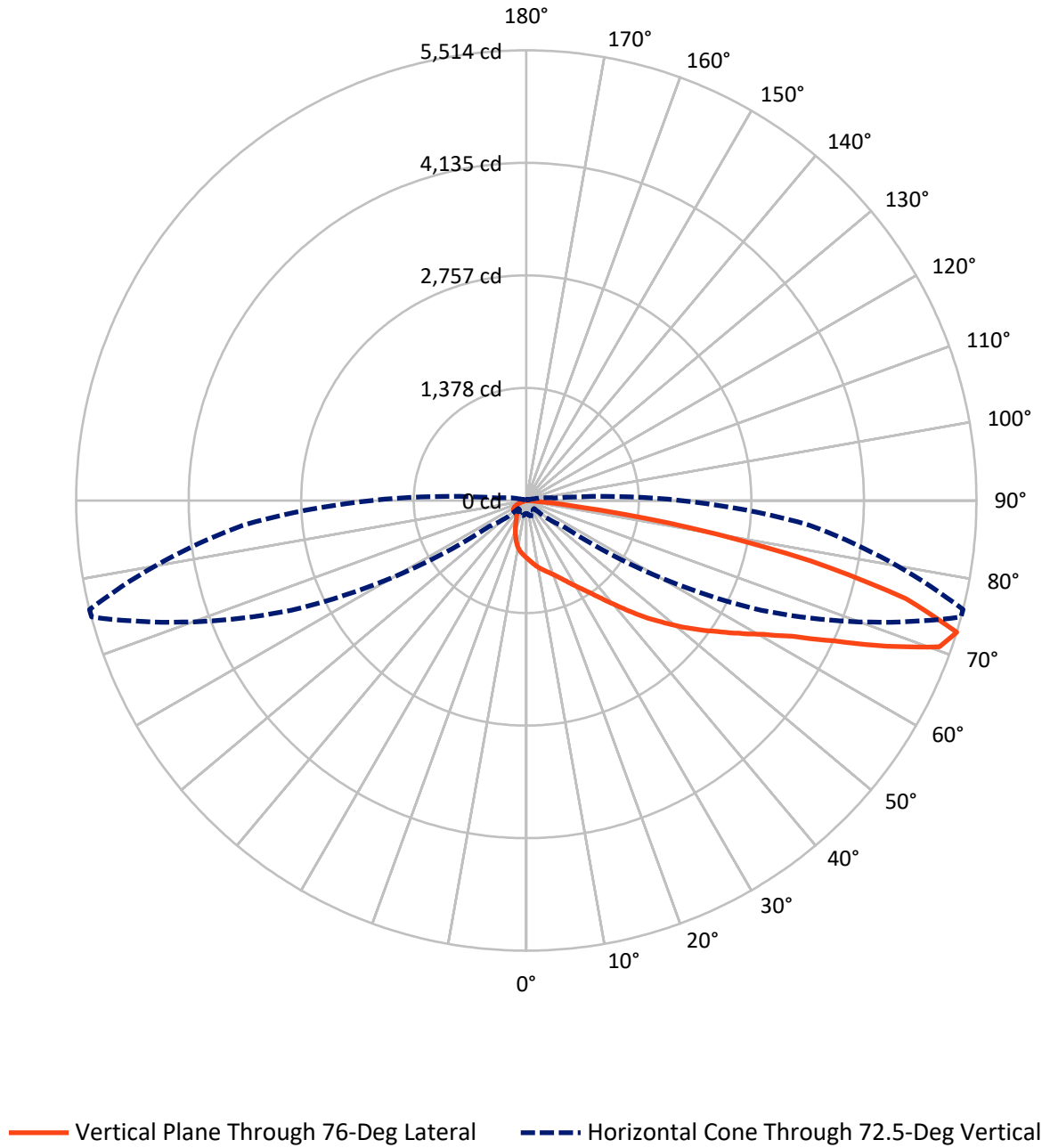
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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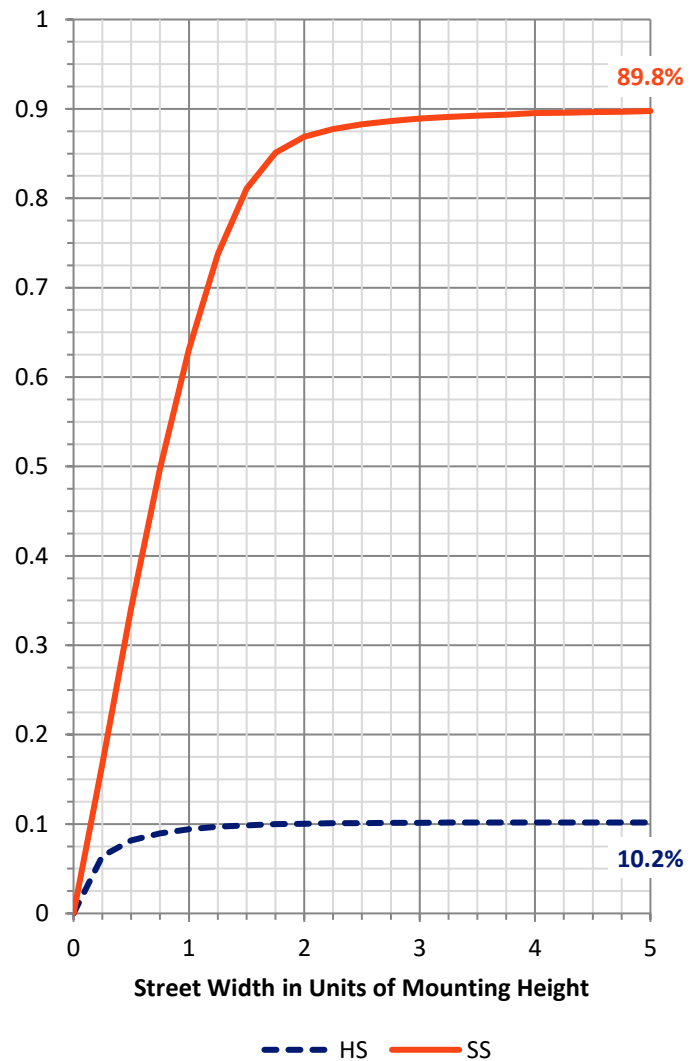
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	416.5	0.0	416.5
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	3652.8	0.0	3652.8
	% Fixture	89.8	0.0	89.8
Total	Lumens	4069.3	0.0	4069.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	1.6
10°-20°	171.5	4.2
20°-30°	271.4	6.7
30°-40°	419.9	10.3
40°-50°	637.8	15.7
50°-60°	879.3	21.6
60°-70°	928.9	22.8
70°-80°	637.2	15.7
80°-90°	59.3	1.5
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°	4069.3	100.0
0°-180°	4069.3	100.0

Coefficient of Utilization



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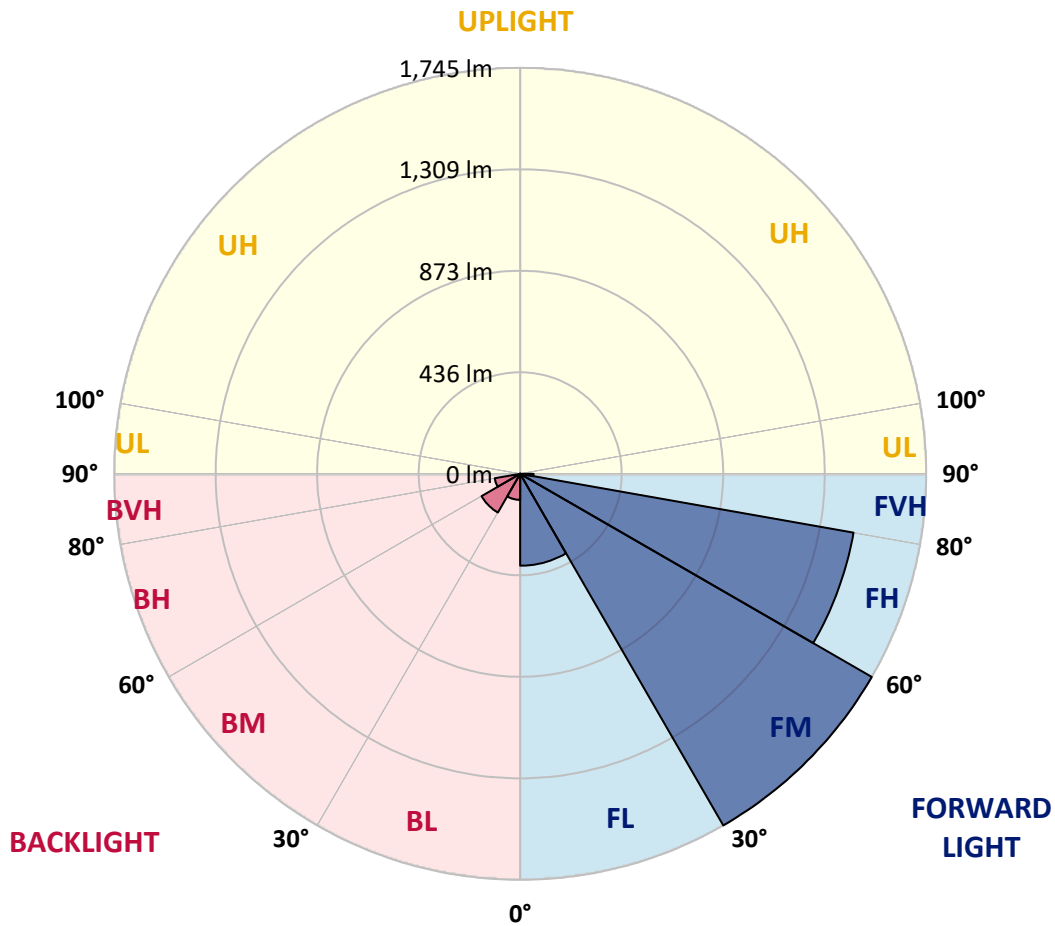
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	394.9	9.7			
FM (30°-60°)	1745.2	42.9			
FH (60°-80°)	1454.9	35.8			G1/1800
FVH (80°-90°)	57.7	1.4			G1/100
BL (0°-30°)	111.9	2.8	B1/500		
BM (30°-60°)	191.8	4.7	B0/220		
BH (60°-80°)	111.2	2.7	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3
2.5°	817.5	806.7	808.8	798.0	792.9	780.8	768.1	751.5	733.1	733.1	715.0
5°	903.5	896.7	896.7	884.1	874.2	855.3	832.5	803.3	768.4	765.0	730.9
7.5°	956.3	952.1	954.8	947.4	939.4	919.6	892.8	854.4	805.1	800.8	749.7
10°	966.7	966.4	973.7	975.9	981.1	971.1	947.1	903.0	841.2	835.2	765.8
12.5°	926.8	921.8	940.0	961.3	991.5	1004.9	992.5	947.4	874.2	865.8	780.8
15°	861.3	862.3	879.8	912.8	963.0	1011.0	1027.0	990.7	907.7	897.7	795.1
17.5°	823.8	819.9	835.0	864.5	919.9	987.8	1043.1	1031.0	943.4	932.0	809.5
20°	819.4	819.1	822.6	836.0	878.2	954.5	1041.3	1070.4	985.3	972.2	830.5
22.5°	850.5	849.9	847.1	844.4	856.1	922.0	1033.4	1107.8	1035.6	1021.3	860.0
25°	898.3	897.5	893.0	876.9	865.5	904.6	1026.0	1142.7	1094.9	1079.1	895.8
27.5°	956.6	956.1	947.9	923.6	894.3	906.2	1022.3	1178.6	1163.6	1148.0	937.4
30°	1028.2	1027.0	1010.2	975.9	937.6	931.3	1027.4	1219.0	1235.1	1223.2	985.1
32.5°	1117.9	1115.0	1092.9	1041.1	987.5	964.8	1036.9	1260.4	1319.8	1308.7	1049.0
35°	1187.4	1182.8	1169.9	1124.2	1045.3	1005.9	1059.0	1309.5	1421.7	1411.9	1130.6
37.5°	1247.0	1242.5	1231.9	1194.4	1128.2	1058.5	1094.7	1375.0	1542.1	1537.3	1230.1
40°	1311.4	1304.0	1299.0	1258.8	1198.9	1134.3	1145.6	1451.5	1680.7	1681.2	1349.6
42.5°	1361.0	1358.1	1358.6	1327.8	1267.3	1224.1	1213.2	1537.8	1846.7	1851.7	1493.5
45°	1403.5	1401.2	1410.9	1389.3	1336.2	1282.9	1292.3	1635.5	2028.3	2038.6	1654.6
47.5°	1436.2	1438.9	1452.8	1438.9	1407.7	1324.3	1362.6	1740.9	2219.1	2220.5	1820.8
50°	1468.9	1470.1	1493.2	1486.4	1473.7	1376.9	1427.2	1858.5	2420.3	2422.7	1976.3
52.5°	1479.3	1477.6	1514.6	1531.6	1532.1	1441.8	1511.0	1986.9	2617.4	2625.1	2136.3
55°	1426.5	1431.0	1490.7	1559.2	1586.4	1531.6	1623.9	2149.2	2827.6	2830.7	2294.7
57.5°	1168.3	1193.1	1325.1	1484.3	1621.6	1660.1	1786.3	2338.9	3070.2	3067.3	2455.2
60°	709.0	738.6	896.5	1244.9	1507.0	1789.1	2025.4	2633.0	3335.1	3327.0	2617.4
62.5°	396.5	405.5	455.8	745.2	1146.2	1707.0	2259.0	3010.7	3691.0	3663.4	2777.1
65°	292.2	295.1	307.0	365.1	563.3	1312.9	2207.8	3462.4	4190.9	4141.6	2968.5
67.5°	253.9	256.9	268.4	276.3	251.5	689.7	1819.0	3713.0	4825.8	4761.1	3227.5
70°	213.8	215.4	234.1	239.4	180.0	262.4	1168.6	3635.6	5413.4	5367.2	3505.5
72.5°	159.4	165.7	193.0	205.6	144.4	139.4	550.1	3178.6	5512.9	5513.5	3486.7
75°	108.2	114.1	145.1	169.2	111.4	97.7	222.0	2373.6	4800.5	4800.5	3056.4
77.5°	73.9	78.6	101.1	132.7	84.5	67.0	115.1	1506.4	3443.9	3565.2	2178.5
80°	32.7	35.7	65.2	96.4	64.2	43.3	65.2	824.9	2082.7	2057.1	853.9
82.5°	16.1	18.4	41.7	60.2	41.4	26.6	34.3	392.3	675.0	641.4	133.4
85°	3.2	4.2	22.4	25.6	19.3	11.9	12.9	120.6	81.3	92.9	28.3
87.5°	0.0	0.0	6.9	4.7	2.2	2.7	2.7	10.9	6.4	7.4	7.4
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°	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.3
2.5°	705.6	695.8	674.4	653.3	631.7	611.8	598.2	584.5	575.9	572.3	572.8
5°	711.1	691.4	646.5	599.4	553.0	507.6	473.6	441.6	431.6	414.9	416.0
7.5°	719.9	687.7	616.8	537.7	462.2	395.6	347.7	309.3	294.1	279.3	279.0
10°	725.6	680.8	577.8	472.0	369.8	295.1	249.2	221.5	211.5	202.4	202.2
12.5°	728.1	668.1	532.9	398.3	287.7	224.9	197.4	184.5	181.1	177.9	177.9
15°	730.1	655.7	482.8	327.3	227.2	188.2	177.4	173.1	170.8	168.7	168.7
17.5°	732.0	639.8	425.5	266.1	191.9	173.4	168.1	163.7	161.8	159.4	159.4
20°	738.3	624.5	374.3	219.7	172.6	162.9	157.0	152.3	150.7	149.1	149.4
22.5°	750.2	612.1	324.7	188.2	161.0	152.0	144.6	139.4	138.3	137.2	136.4
25°	764.4	596.9	278.0	167.9	149.6	139.6	131.4	127.0	125.9	126.2	125.7
27.5°	782.7	579.9	237.8	155.0	139.6	128.0	118.8	115.3	115.9	117.0	116.4
30°	802.7	564.4	206.4	146.0	130.7	117.8	108.4	106.1	107.9	109.6	109.1
32.5°	832.5	550.6	184.5	138.9	122.7	109.3	101.9	99.0	101.1	103.2	102.7
35°	873.2	543.8	172.1	132.7	115.9	102.7	95.3	93.2	95.3	95.8	95.5
37.5°	923.1	543.2	166.9	127.7	109.6	97.2	89.0	88.1	89.8	90.0	89.5
40°	987.5	546.6	162.9	124.0	102.9	90.8	83.1	82.3	82.9	84.8	84.5
42.5°	1069.1	560.9	157.3	119.3	95.8	84.5	78.4	76.6	76.3	78.4	78.1
45°	1171.5	592.3	150.0	111.6	89.5	79.2	73.1	71.0	70.2	70.7	71.5
47.5°	1283.1	630.9	142.6	104.6	85.0	74.9	68.9	66.2	65.0	65.0	65.0
50°	1391.3	674.4	137.6	97.2	81.8	71.0	64.4	61.8	59.7	59.1	58.8
52.5°	1498.6	717.2	133.6	89.8	78.1	66.0	60.2	57.3	54.9	53.8	53.3
55°	1596.2	757.9	126.7	82.6	73.4	60.7	56.0	53.1	50.1	48.3	47.6
57.5°	1689.9	791.6	114.1	75.2	66.0	55.7	51.5	48.3	44.9	42.5	41.4
60°	1775.2	809.0	98.2	67.3	58.6	50.4	46.4	43.6	39.1	35.2	34.0
62.5°	1840.1	802.2	81.1	58.3	50.9	45.7	40.7	37.7	32.5	27.7	25.8
65°	1906.6	764.8	64.7	48.8	44.6	39.4	34.0	31.2	25.1	20.1	18.8
67.5°	1992.9	684.7	50.9	40.7	38.5	31.2	26.6	24.8	20.6	15.9	14.8
70°	2048.4	531.9	39.6	33.0	31.7	22.7	20.6	20.3	16.4	12.1	10.9
72.5°	1896.4	348.7	30.3	25.1	22.7	14.8	15.9	15.9	11.9	8.2	7.2
75°	1583.0	204.1	21.9	17.9	12.9	9.5	10.9	10.9	7.4	4.0	3.2
77.5°	1130.6	108.8	14.6	11.1	6.6	4.2	5.8	5.5	2.4	0.3	0.0
80°	432.3	37.5	6.9	4.5	1.8	0.8	0.5	0.3	0.3	0.0	0.0
82.5°	66.0	9.7	1.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.0	0.0	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)