

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: P959939

Luminaire Tested: **NVN-SB1B-827-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1B-827-U-SL3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4043.6 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

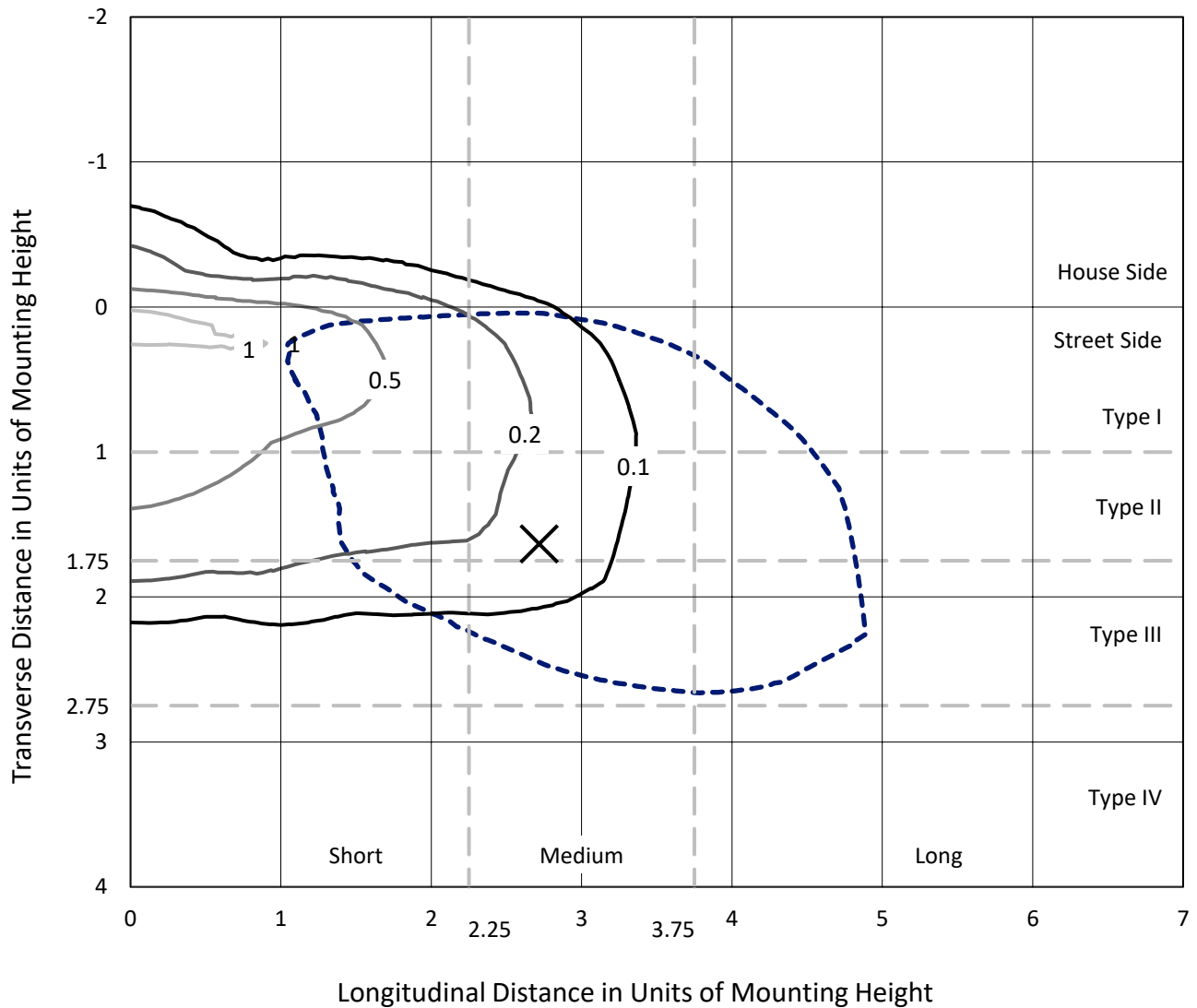
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

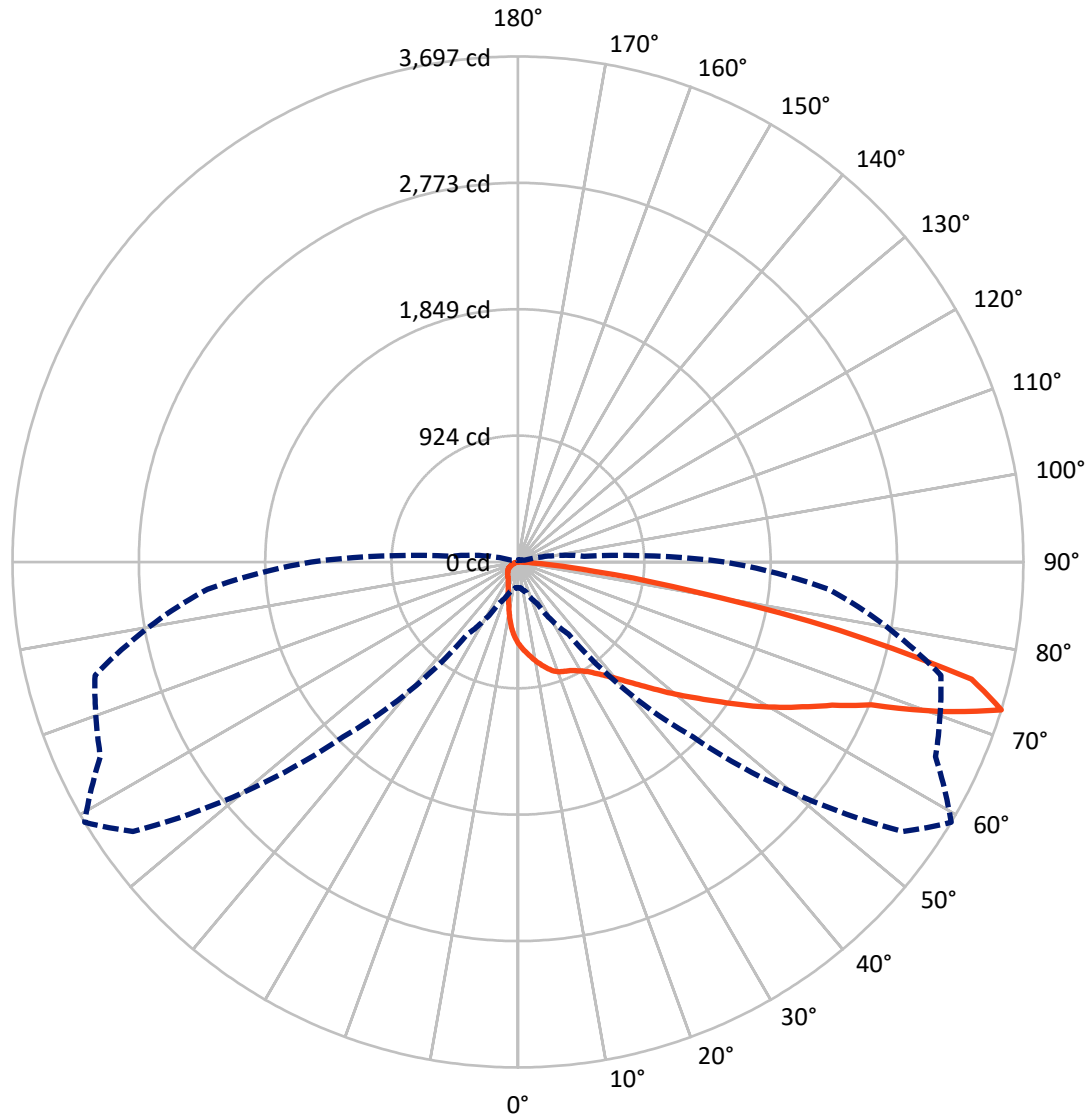
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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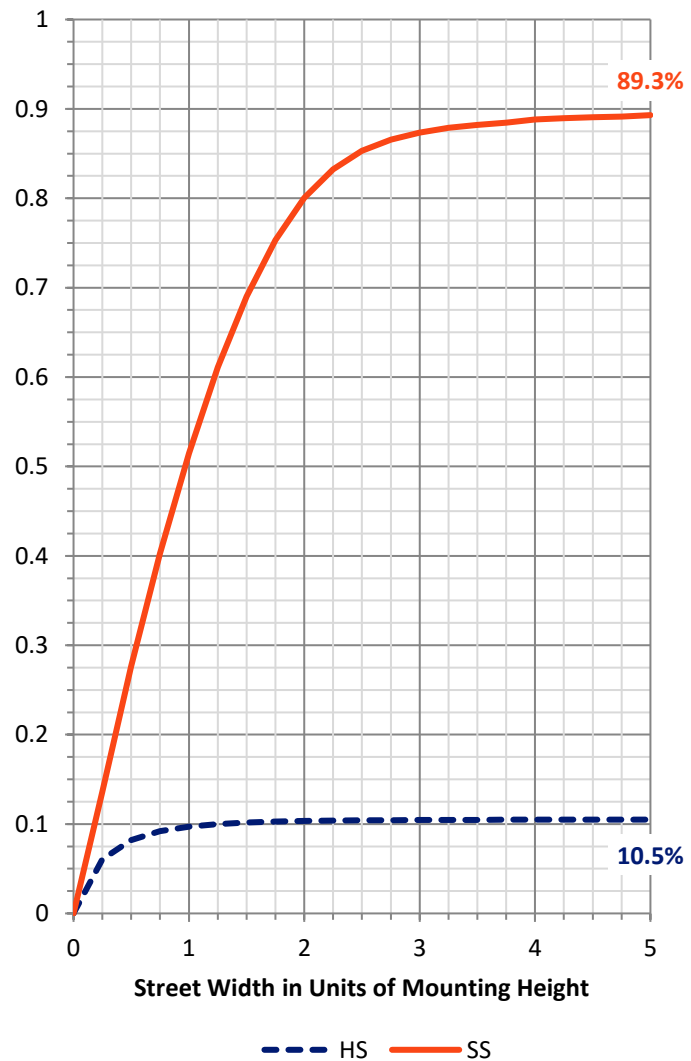
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	427.1	0.0	427.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3616.5	0.0	3616.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	4043.6	0.0	4043.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	1.3
10°-20°	143.7	3.6
20°-30°	227.7	5.6
30°-40°	365.5	9.0
40°-50°	583.7	14.4
50°-60°	845.2	20.9
60°-70°	1003.0	24.8
70°-80°	744.6	18.4
80°-90°	76.1	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°	4043.6	100.0
0°-180°	4043.6	100.0

Coefficient of Utilization



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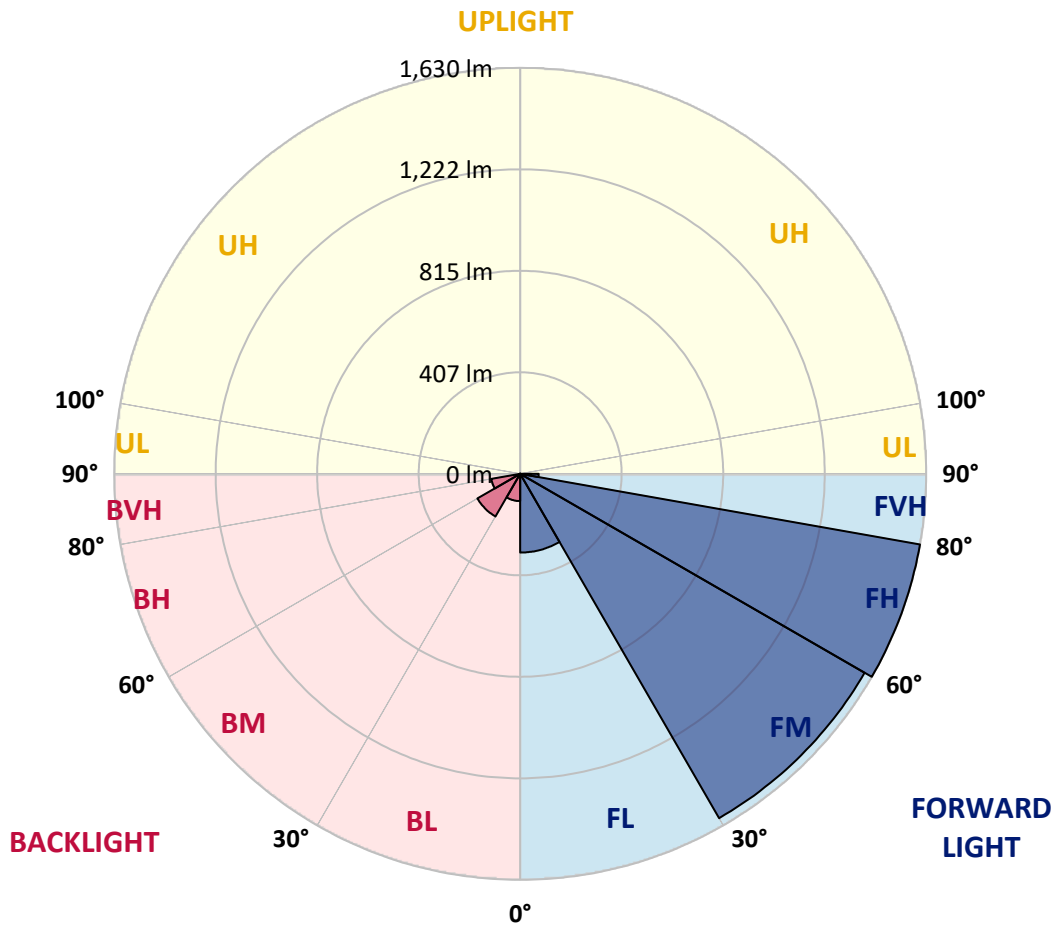
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	316.1	7.8			
FM (30°-60°)	1596.4	39.5			
FH (60°-80°)	1629.8	40.3			G1/1800
FVH (80°-90°)	74.2	1.8			G1/100
BL (0°-30°)	109.4	2.7	B0/110		
BM (30°-60°)	198.0	4.9	B0/220		
BH (60°-80°)	117.8	2.9	B1/500		G1/500
BVH (80°-90°)	1.9	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
2.5°	663.4	659.7	660.3	653.9	649.4	644.7	635.4	634.2	627.5	615.9	604.0
5°	721.3	718.8	716.8	709.6	700.4	688.8	673.2	667.7	655.5	635.4	612.2
7.5°	763.5	760.6	761.7	754.5	747.1	734.2	712.8	702.5	686.4	655.8	620.6
10°	771.6	770.1	776.9	779.6	779.6	771.4	750.5	740.3	716.8	677.7	629.3
12.5°	725.7	726.0	743.1	763.7	790.7	798.4	784.3	773.3	750.0	700.9	640.4
15°	672.1	672.4	689.0	715.4	759.5	803.6	814.7	807.6	783.5	726.0	653.4
17.5°	639.9	638.6	649.7	671.4	717.5	779.6	833.2	837.9	818.4	753.7	667.7
20°	635.4	633.0	638.9	649.7	682.6	749.5	835.3	857.7	854.3	785.2	684.0
22.5°	662.9	659.2	656.0	656.5	670.6	724.4	830.0	868.8	891.2	822.9	706.4
25°	717.3	711.5	701.2	688.0	685.1	719.1	826.4	881.0	925.6	871.1	736.1
27.5°	783.8	775.6	755.8	736.1	719.1	733.9	833.9	900.3	964.4	927.4	770.4
30°	856.9	846.9	827.1	789.7	762.7	766.9	852.2	925.6	1014.0	991.1	813.3
32.5°	964.4	941.2	906.6	849.3	813.6	802.6	879.7	957.8	1075.5	1075.8	875.7
35°	1056.6	1043.6	1008.7	937.5	864.3	849.8	915.8	1003.2	1160.8	1188.0	962.8
37.5°	1116.9	1099.3	1068.7	1015.1	943.0	898.4	964.1	1058.9	1251.1	1315.8	1070.2
40°	1184.6	1167.2	1126.5	1076.0	1034.3	981.8	1025.1	1123.1	1350.1	1447.0	1193.0
42.5°	1266.2	1243.4	1195.4	1141.0	1097.5	1091.6	1104.8	1203.0	1451.7	1589.6	1320.8
45°	1361.9	1340.6	1285.5	1216.8	1178.4	1168.2	1205.2	1296.2	1565.0	1745.8	1449.9
47.5°	1451.7	1426.9	1367.6	1304.9	1262.4	1230.0	1311.8	1406.3	1693.3	1909.3	1571.8
50°	1528.1	1502.6	1448.3	1381.5	1352.7	1310.3	1416.7	1529.1	1820.5	2075.3	1683.3
52.5°	1580.2	1557.9	1493.9	1448.5	1429.1	1407.6	1539.3	1659.3	1947.3	2227.3	1793.3
55°	1568.5	1548.4	1492.1	1488.9	1487.6	1510.0	1686.1	1806.8	2076.3	2371.2	1902.9
57.5°	1530.6	1508.0	1437.8	1486.0	1532.8	1601.5	1845.1	1981.3	2217.9	2506.9	2008.5
60°	1419.5	1411.6	1368.8	1480.5	1551.7	1690.9	2026.7	2156.6	2370.9	2626.3	2102.2
62.5°	1184.3	1191.2	1190.8	1492.1	1586.1	1792.8	2191.8	2334.0	2520.7	2741.1	2185.6
65°	886.7	910.5	940.8	1387.5	1632.0	1974.7	2389.0	2526.4	2672.7	2874.7	2270.4
67.5°	595.8	614.9	635.4	1138.4	1495.3	2165.8	2716.6	2790.2	2854.8	3022.8	2365.7
70°	341.1	347.2	376.0	710.9	1152.6	2113.0	3250.1	3276.7	3126.6	3205.2	2435.1
72.5°	191.2	189.0	227.0	337.4	644.1	1809.4	3437.0	3697.1	3369.7	3202.3	2280.1
75°	127.8	128.0	156.3	212.8	251.0	1266.7	2961.8	3428.0	3223.9	2839.6	1863.0
77.5°	87.1	90.0	114.8	164.5	116.1	618.0	1959.4	2401.4	2610.2	2192.8	1286.2
80°	37.7	38.0	75.7	118.0	78.4	196.7	1015.9	1286.5	1637.0	1231.3	509.5
82.5°	19.6	22.1	48.3	76.3	49.4	68.9	479.9	562.0	687.0	361.4	104.6
85°	6.9	8.2	29.8	37.5	24.8	24.6	167.1	170.3	145.4	54.4	28.8
87.5°	0.0	1.3	11.6	9.2	3.2	2.9	19.8	16.6	13.2	7.7	9.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
2.5°	598.5	591.3	579.7	565.5	548.9	539.9	527.0	519.1	511.9	512.2	517.9
5°	599.3	587.4	557.8	526.4	491.6	466.0	437.5	417.4	402.1	398.4	404.0
7.5°	601.7	581.6	533.3	481.0	422.9	379.9	340.6	315.7	301.8	298.1	301.8
10°	604.9	575.2	505.5	425.6	353.5	301.8	269.1	253.2	246.8	242.1	245.0
12.5°	607.4	568.7	470.7	368.3	291.7	251.3	226.5	213.3	207.8	204.4	206.2
15°	611.9	560.0	433.0	315.0	250.0	217.0	193.5	183.8	182.1	182.7	183.5
17.5°	616.4	551.4	390.7	273.3	219.4	187.0	172.6	171.1	173.2	175.3	176.1
20°	621.5	539.4	348.0	241.8	191.2	166.0	162.4	163.4	164.5	168.2	169.2
22.5°	628.8	524.1	310.5	215.1	167.7	156.0	154.2	155.0	155.8	159.5	160.5
25°	639.4	507.7	280.1	190.6	152.8	147.8	146.0	146.0	147.1	150.5	151.8
27.5°	650.5	484.4	255.5	167.9	144.1	138.9	135.7	135.7	137.0	140.9	142.6
30°	662.9	463.3	236.3	151.0	136.7	129.9	125.7	124.6	126.2	131.2	132.5
32.5°	685.3	449.6	222.5	143.1	130.2	121.7	115.9	113.0	114.6	120.3	122.0
35°	719.3	446.4	213.1	139.1	123.8	114.3	106.1	101.7	102.9	109.1	110.9
37.5°	759.2	453.0	203.8	133.9	117.8	107.2	96.4	90.5	92.7	98.2	99.8
40°	816.5	480.5	196.7	129.9	111.6	98.7	86.6	80.8	84.3	89.0	89.8
42.5°	885.7	529.3	194.9	126.2	104.2	89.8	77.6	73.4	76.1	80.6	81.3
45°	971.5	591.6	203.3	121.5	96.1	81.1	70.5	68.2	68.9	73.4	75.5
47.5°	1063.6	655.5	226.5	117.3	89.0	73.9	65.0	62.8	62.3	66.5	69.2
50°	1156.8	712.3	254.0	114.1	83.9	68.2	60.7	58.1	56.8	59.4	60.5
52.5°	1249.0	757.4	271.9	108.8	78.9	62.3	57.0	53.1	50.7	52.0	53.1
55°	1342.4	797.0	273.0	100.9	74.2	58.6	53.3	48.8	45.9	45.9	46.4
57.5°	1429.8	831.9	257.4	90.3	67.5	55.1	48.3	44.6	41.4	40.4	40.7
60°	1507.2	857.7	231.5	78.4	61.8	50.7	43.3	40.4	36.4	34.3	33.8
62.5°	1576.0	870.4	196.2	66.2	54.6	45.4	38.5	35.4	30.1	27.5	27.2
65°	1634.4	857.5	159.2	54.9	48.6	39.6	33.0	29.8	24.0	20.8	20.8
67.5°	1692.3	798.4	120.3	46.2	42.2	33.3	27.2	24.3	20.1	17.4	17.4
70°	1699.7	673.9	84.3	38.8	35.2	25.6	21.9	20.1	16.4	14.0	13.7
72.5°	1513.0	484.9	51.2	31.7	27.5	18.2	17.4	15.9	12.1	10.6	10.2
75°	1209.4	297.2	30.1	23.8	18.2	12.9	12.9	11.4	8.2	6.9	6.9
77.5°	835.8	155.5	17.7	15.3	10.9	7.7	8.4	6.9	4.0	3.2	3.2
80°	334.8	59.1	9.5	7.2	5.0	3.4	2.9	1.5	0.8	0.5	0.8
82.5°	66.8	15.6	3.2	1.8	1.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	17.1	3.4	0.8	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	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)