

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: P959407

Luminaire Tested: **NVN-SB1A-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1A-827-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3410.2 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

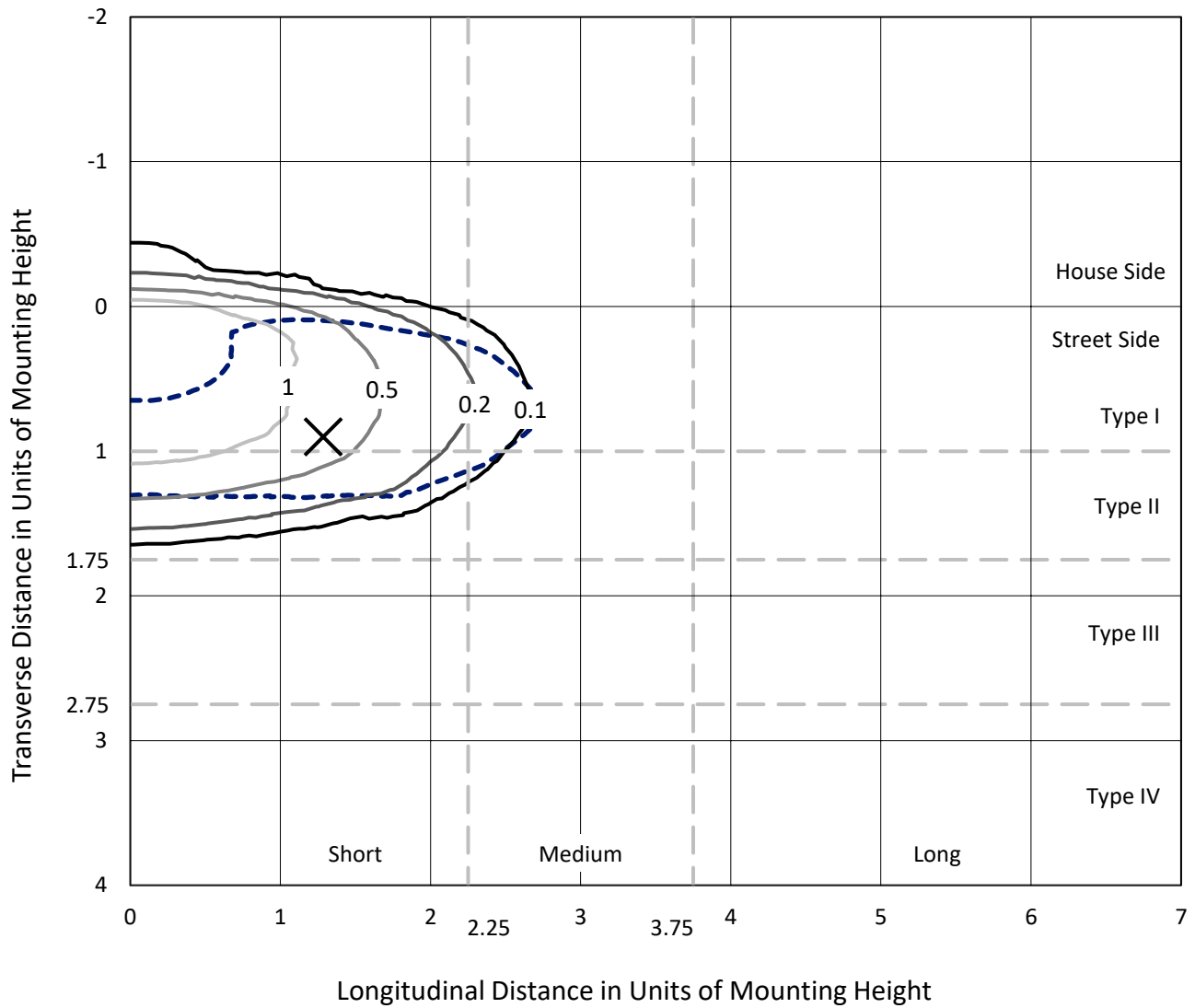
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

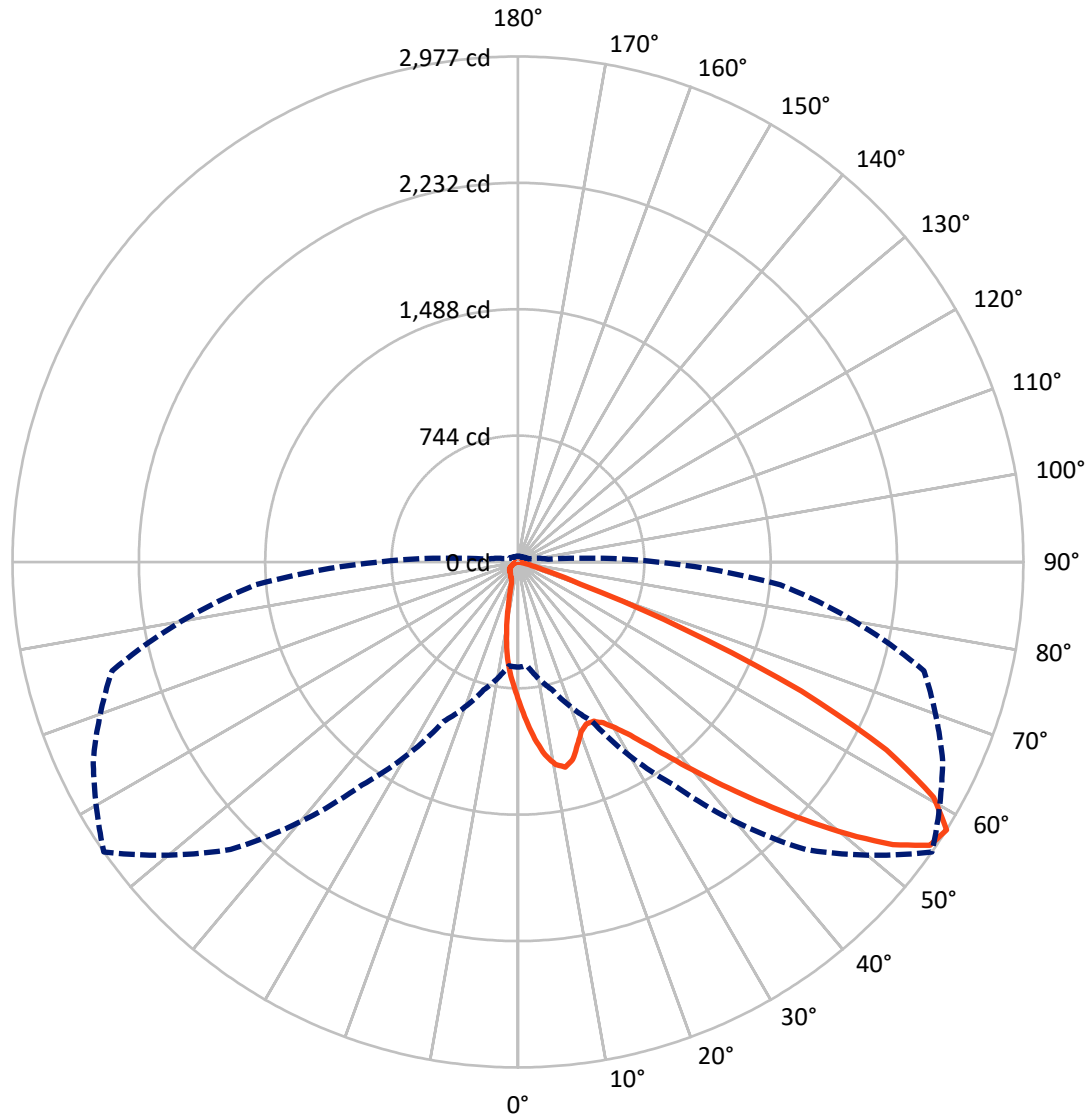
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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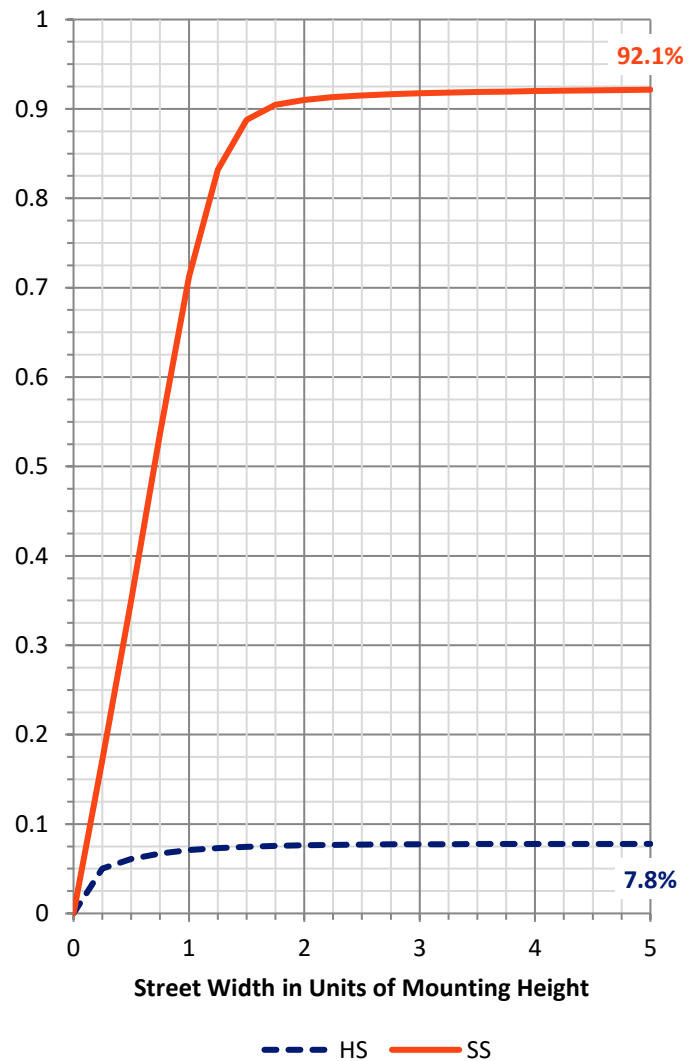
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	266.3	0.0	266.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	3143.8	0.0	3143.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	3410.2	0.0	3410.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	2.2
10°-20°	184.7	5.4
20°-30°	295.5	8.7
30°-40°	500.2	14.7
40°-50°	821.2	24.1
50°-60°	902.5	26.5
60°-70°	517.7	15.2
70°-80°	105.8	3.1
80°-90°	6.2	0.2
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°	3410.2	100.0
0°-180°	3410.2	100.0

Coefficient of Utilization



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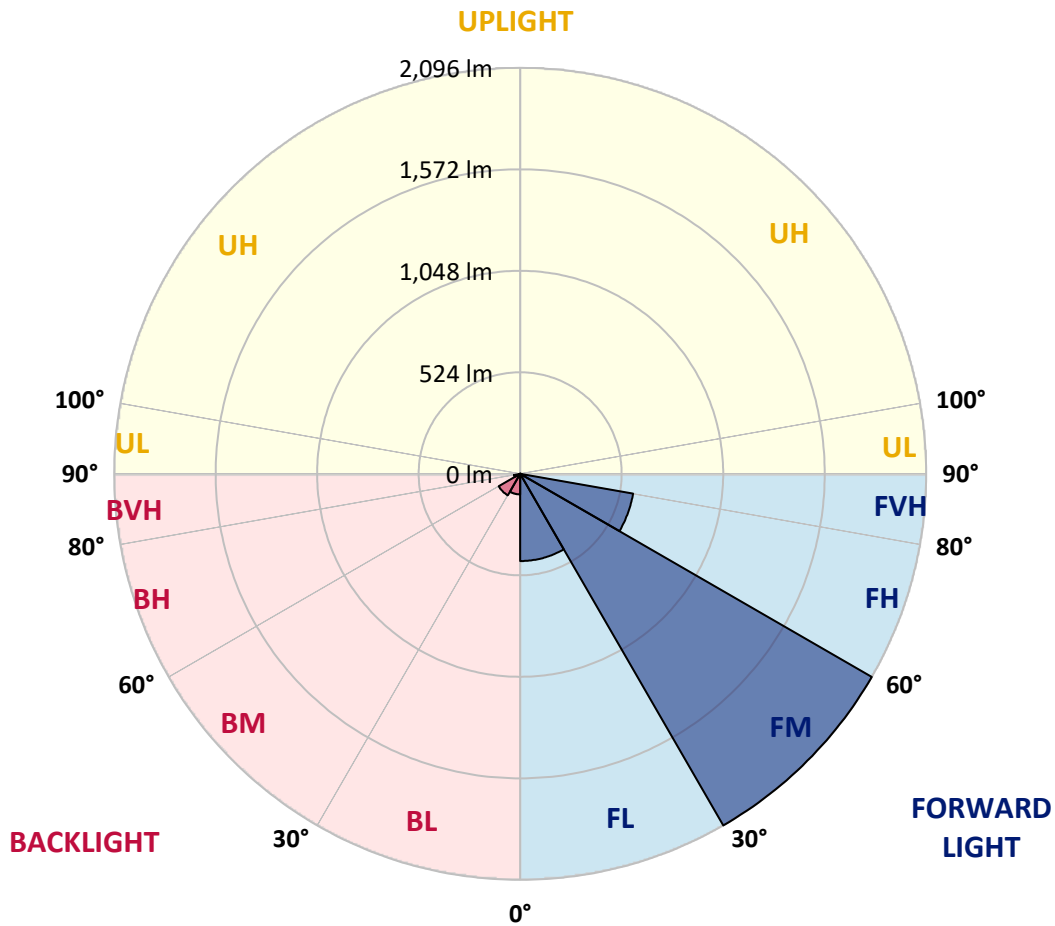
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.3	13.2			
FM (30°-60°)	2095.9	61.5			
FH (60°-80°)	591.8	17.4			G0/660
FVH (80°-90°)	5.8	0.2			G0/10
BL (0°-30°)	106.3	3.1	B0/110		
BM (30°-60°)	127.9	3.8	B0/220		
BH (60°-80°)	31.7	0.9	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7
2.5°	1019.7	1006.9	1004.9	1002.3	978.1	959.7	933.3	904.2	871.6	838.3	823.7
5°	1177.9	1167.9	1166.0	1154.3	1126.5	1095.3	1048.3	988.7	927.9	856.5	825.7
7.5°	1208.7	1206.8	1215.4	1215.0	1211.2	1186.6	1146.9	1076.0	984.7	878.7	831.3
10°	1071.7	1076.7	1102.3	1124.7	1185.5	1220.9	1212.3	1153.8	1043.1	904.2	837.3
12.5°	947.1	941.5	959.7	985.1	1055.9	1160.9	1239.4	1218.7	1110.1	933.0	846.3
15°	868.9	866.5	876.9	888.7	942.5	1048.5	1207.9	1271.5	1174.4	967.1	860.1
17.5°	843.9	841.9	845.1	848.1	882.9	964.9	1132.7	1303.9	1236.0	1005.9	875.1
20°	864.3	861.7	861.3	859.0	873.5	929.5	1064.9	1306.3	1291.3	1041.3	888.3
22.5°	923.7	920.9	910.5	901.3	902.5	934.3	1034.5	1283.1	1332.9	1074.3	896.5
25°	1031.7	1026.7	1005.3	974.3	954.5	967.9	1039.1	1252.7	1372.7	1100.1	892.5
27.5°	1166.7	1160.3	1132.7	1086.5	1041.3	1024.9	1072.7	1231.6	1405.7	1119.9	883.8
30°	1298.9	1290.7	1263.5	1227.6	1161.5	1109.9	1132.9	1240.9	1445.0	1140.5	872.5
32.5°	1441.7	1433.9	1397.9	1353.3	1298.7	1229.1	1215.6	1286.1	1493.2	1169.3	864.5
35°	1622.3	1610.1	1559.0	1498.2	1440.2	1369.7	1327.5	1364.1	1557.3	1213.3	868.9
37.5°	1828.0	1811.6	1756.4	1672.6	1596.8	1518.0	1463.7	1471.3	1651.3	1272.2	882.5
40°	2021.8	2006.8	1956.0	1877.0	1781.9	1686.2	1628.4	1611.6	1781.0	1343.9	906.5
42.5°	2138.1	2124.6	2103.2	2069.8	1989.6	1892.0	1819.2	1782.8	1934.6	1429.7	935.7
45°	2144.6	2132.8	2161.6	2200.6	2184.8	2119.8	2030.8	1964.2	2088.7	1510.2	966.1
47.5°	2040.4	2032.4	2119.8	2255.6	2323.4	2350.7	2268.7	2130.6	2215.9	1568.0	978.5
50°	1756.0	1753.1	1933.0	2182.4	2376.2	2553.0	2519.6	2285.3	2314.6	1597.9	966.7
52.5°	1522.6	1511.9	1616.8	1948.2	2299.4	2659.4	2764.7	2437.1	2383.5	1603.6	939.1
55°	1154.9	1145.4	1277.0	1556.3	2051.9	2621.5	2944.1	2593.8	2432.9	1589.1	889.7
57.5°	619.5	613.6	779.9	1035.9	1604.0	2394.4	2976.5	2759.5	2474.6	1550.6	820.5
60°	241.2	240.2	302.4	502.6	974.9	1948.0	2813.1	2858.9	2500.6	1503.3	762.7
62.5°	146.0	149.1	159.2	225.6	430.6	1210.1	2436.5	2745.8	2518.1	1460.0	714.9
65°	120.7	121.0	122.2	155.0	206.3	506.4	1834.2	2373.6	2475.0	1382.8	647.3
67.5°	103.4	105.4	110.2	123.0	145.5	222.0	1056.1	1838.6	2212.8	1203.2	541.7
70°	81.6	84.2	90.2	101.2	112.2	139.0	390.3	1223.4	1690.4	906.9	409.6
72.5°	68.8	68.6	71.8	82.2	89.2	97.8	150.2	685.5	982.5	433.0	202.7
75°	53.2	55.4	59.3	68.8	73.0	70.8	81.4	250.4	352.0	131.2	69.0
77.5°	41.6	43.4	46.8	56.2	60.4	50.2	46.8	89.6	113.2	47.2	31.2
80°	18.8	20.2	32.0	41.4	49.2	34.6	25.4	45.8	50.2	21.4	15.8
82.5°	3.4	5.6	18.8	21.8	25.2	22.5	13.2	23.8	24.6	8.6	5.4
85°	0.2	0.4	6.6	8.0	10.0	7.4	4.0	9.4	8.2	3.0	2.2
87.5°	0.0	0.0	0.0	0.2	0.2	1.0	1.2	1.6	1.2	1.0	0.8
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°	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7	821.7
2.5°	808.5	778.7	749.7	725.9	712.0	688.5	672.9	670.3	663.9	669.5
5°	792.9	739.5	685.5	637.1	597.4	546.1	507.8	491.6	477.5	482.4
7.5°	785.6	701.3	617.2	534.5	449.6	367.6	306.6	281.2	261.8	264.6
10°	775.7	661.5	529.7	403.5	289.8	208.8	166.8	151.2	142.6	142.8
12.5°	768.1	614.0	428.1	273.6	176.4	133.4	120.2	116.5	114.0	114.2
15°	764.3	558.1	327.8	182.3	126.2	113.0	109.8	108.0	106.4	106.2
17.5°	758.1	495.8	240.0	133.1	110.4	105.8	103.0	101.2	99.0	98.6
20°	748.6	425.2	175.4	112.5	103.4	99.8	96.1	93.6	91.0	90.6
22.5°	731.1	350.5	134.8	104.0	98.4	94.4	89.8	86.8	84.4	83.9
25°	698.7	280.5	113.6	98.8	94.0	89.2	84.2	80.2	77.8	77.4
27.5°	657.7	220.4	103.0	94.0	88.4	83.9	78.2	74.4	72.4	72.0
30°	609.4	169.7	97.0	88.6	81.6	77.8	72.8	69.6	68.4	68.4
32.5°	557.2	135.6	94.4	83.0	75.7	71.5	67.5	66.2	65.8	65.6
35°	508.2	117.8	93.2	78.6	70.4	66.4	64.8	65.0	65.8	65.8
37.5°	464.7	112.0	92.6	75.4	65.8	62.2	63.3	65.2	64.4	64.4
40°	425.4	112.7	92.1	73.2	62.0	60.0	62.0	60.6	58.4	58.2
42.5°	395.3	118.0	91.2	71.2	59.8	58.2	57.4	55.0	54.8	55.4
45°	373.4	122.6	91.0	70.4	57.2	54.4	53.4	51.1	55.4	56.4
47.5°	347.6	122.6	91.0	67.5	53.0	52.0	50.2	47.8	52.0	53.0
50°	314.2	114.8	87.4	64.2	49.6	49.0	46.0	42.9	42.0	42.6
52.5°	271.9	100.8	78.4	59.6	46.2	45.0	41.4	39.2	38.4	38.4
55°	223.8	84.4	66.2	52.8	42.6	40.4	37.8	36.8	36.2	35.8
57.5°	181.9	69.2	53.2	46.8	39.4	36.4	35.6	34.2	33.2	32.6
60°	149.3	54.4	44.0	41.6	36.0	33.2	33.0	31.4	28.6	28.2
62.5°	115.2	40.0	37.0	36.2	32.6	30.2	29.8	26.4	22.2	21.4
65°	81.4	31.2	29.8	31.8	29.0	27.0	25.8	20.8	16.4	15.8
67.5°	57.2	26.0	23.6	27.8	25.2	22.5	21.8	17.6	13.6	13.2
70°	40.8	21.2	19.4	23.8	20.2	19.8	18.6	14.8	11.2	10.8
72.5°	28.8	16.2	15.0	20.6	13.8	17.0	15.2	11.4	8.4	8.0
75°	21.2	11.6	10.6	12.0	10.0	12.8	10.8	7.6	5.2	5.0
77.5°	15.6	7.4	6.4	5.8	5.8	8.0	5.8	3.2	2.4	2.2
80°	11.0	3.4	3.0	2.6	2.4	1.8	0.8	0.4	0.2	0.2
82.5°	6.6	1.4	1.4	1.0	0.6	0.0	0.0	0.0	0.0	0.0
85°	1.4	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.2	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

(END OF REPORT)