

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: P959424

Luminaire Tested: **NVN-SB1A-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959424
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-SB1A-827-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3056.5 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

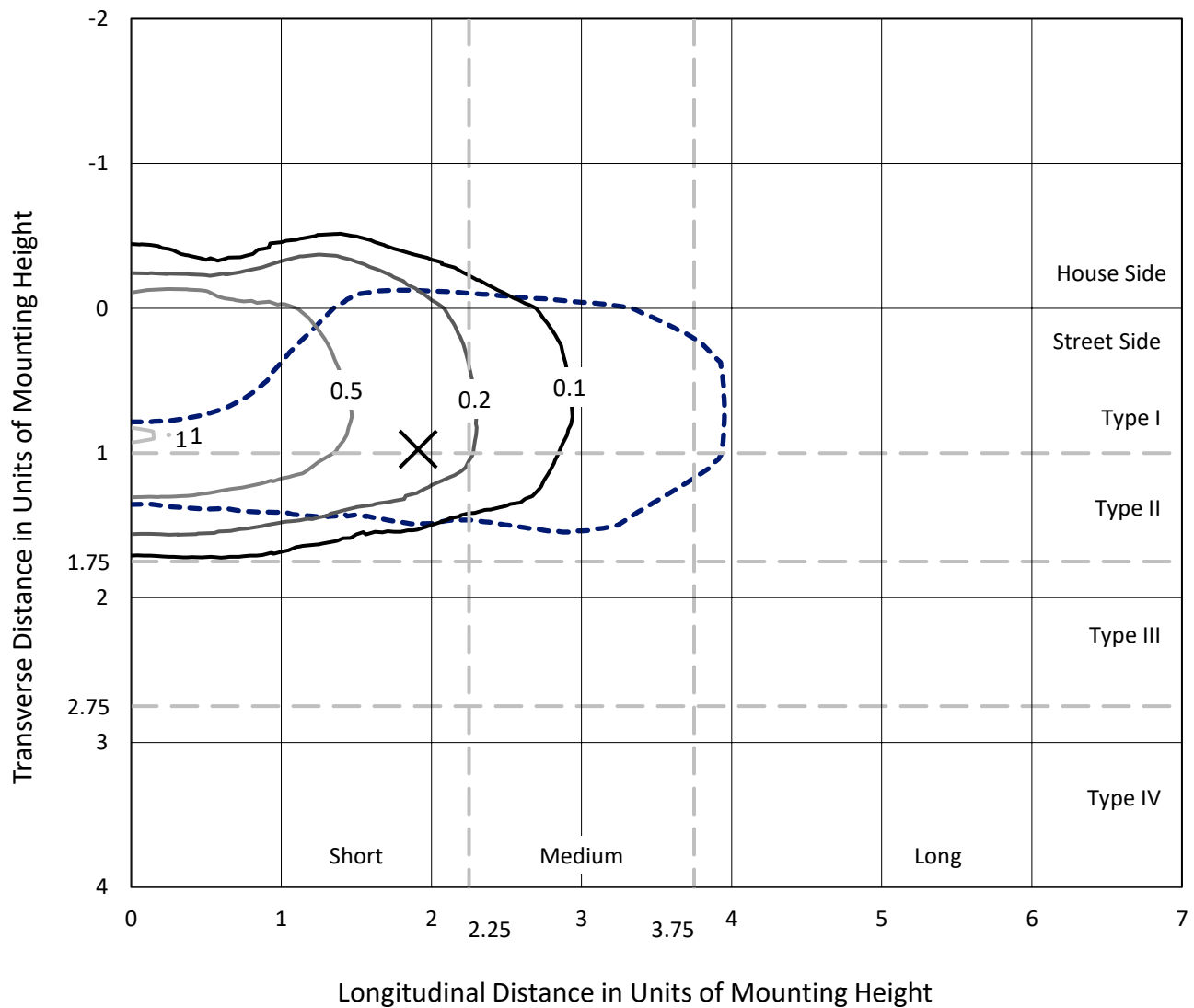


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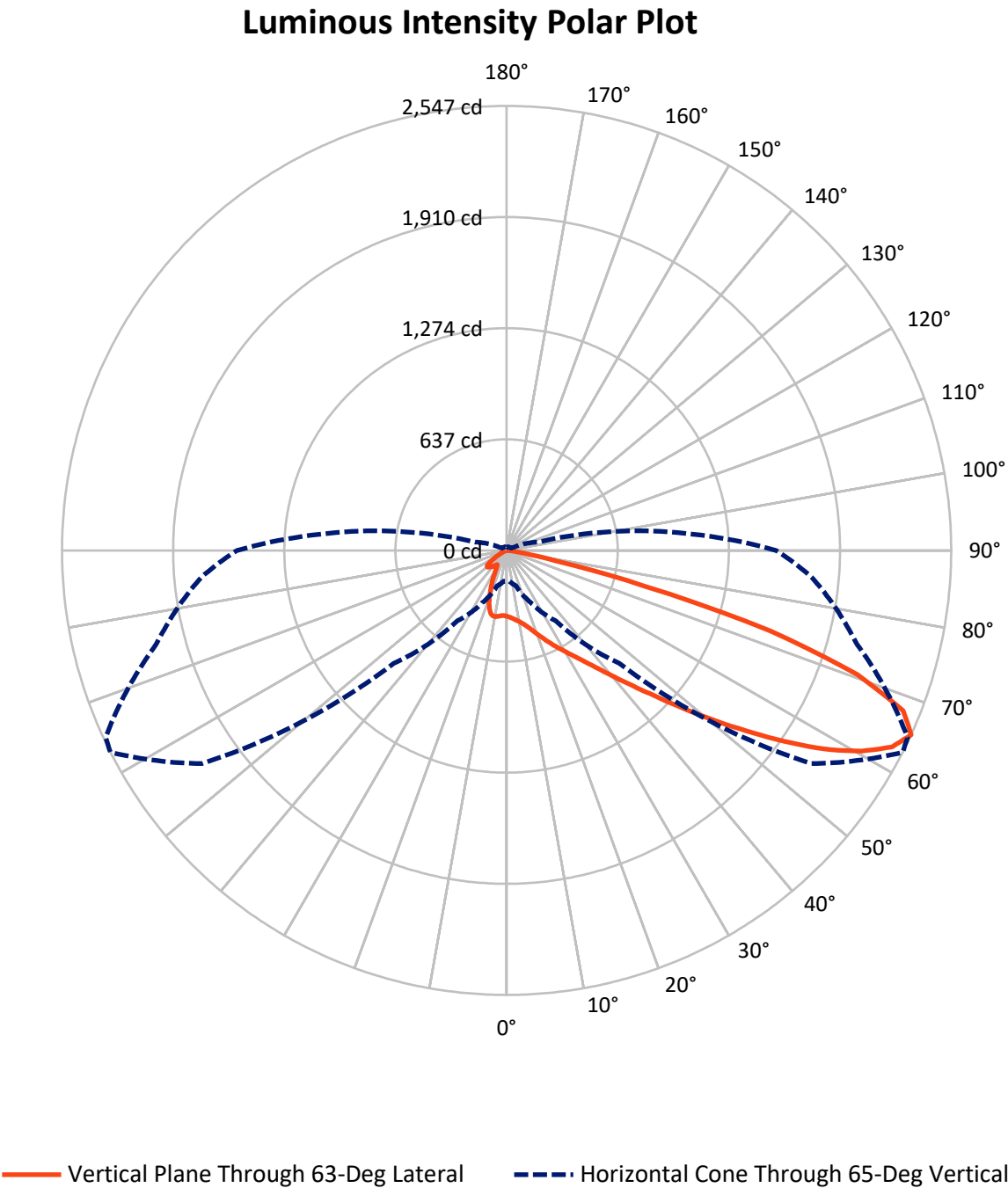
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type II - Short - N/A

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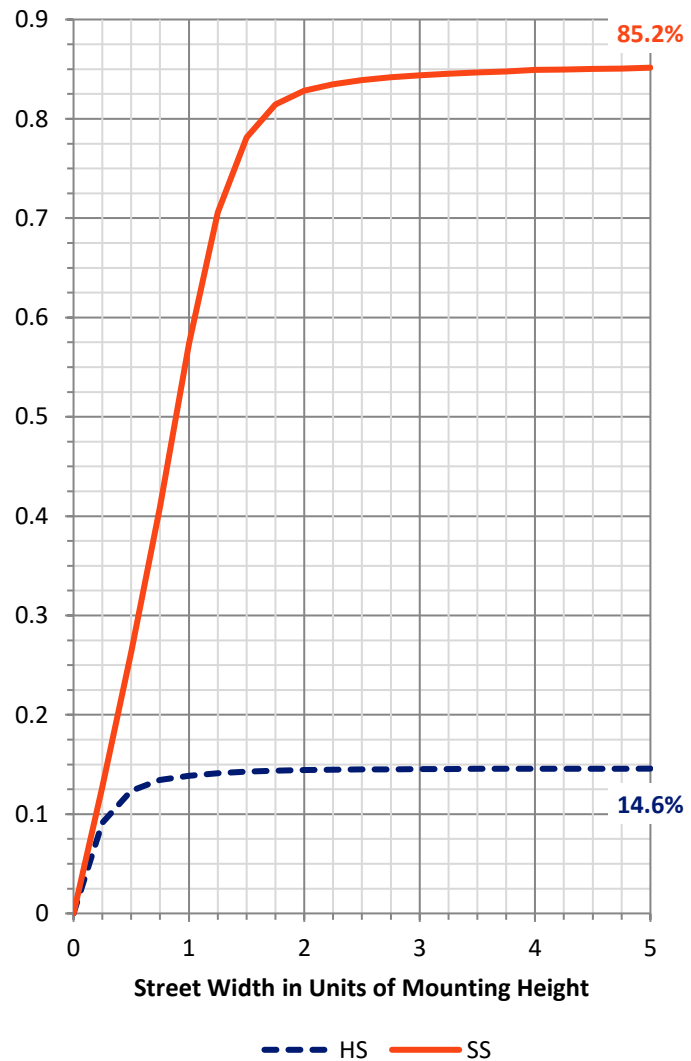
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	449.3	0.0	449.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	2607.3	0.0	2607.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	3056.5	0.0	3056.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.5	1.2
10°-20°	98.6	3.2
20°-30°	171.7	5.6
30°-40°	309.5	10.1
40°-50°	613.8	20.1
50°-60°	836.2	27.4
60°-70°	667.4	21.8
70°-80°	302.0	9.9
80°-90°	21.7	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°	3056.5	100.0
0°-180°	3056.5	100.0

Coefficient of Utilization



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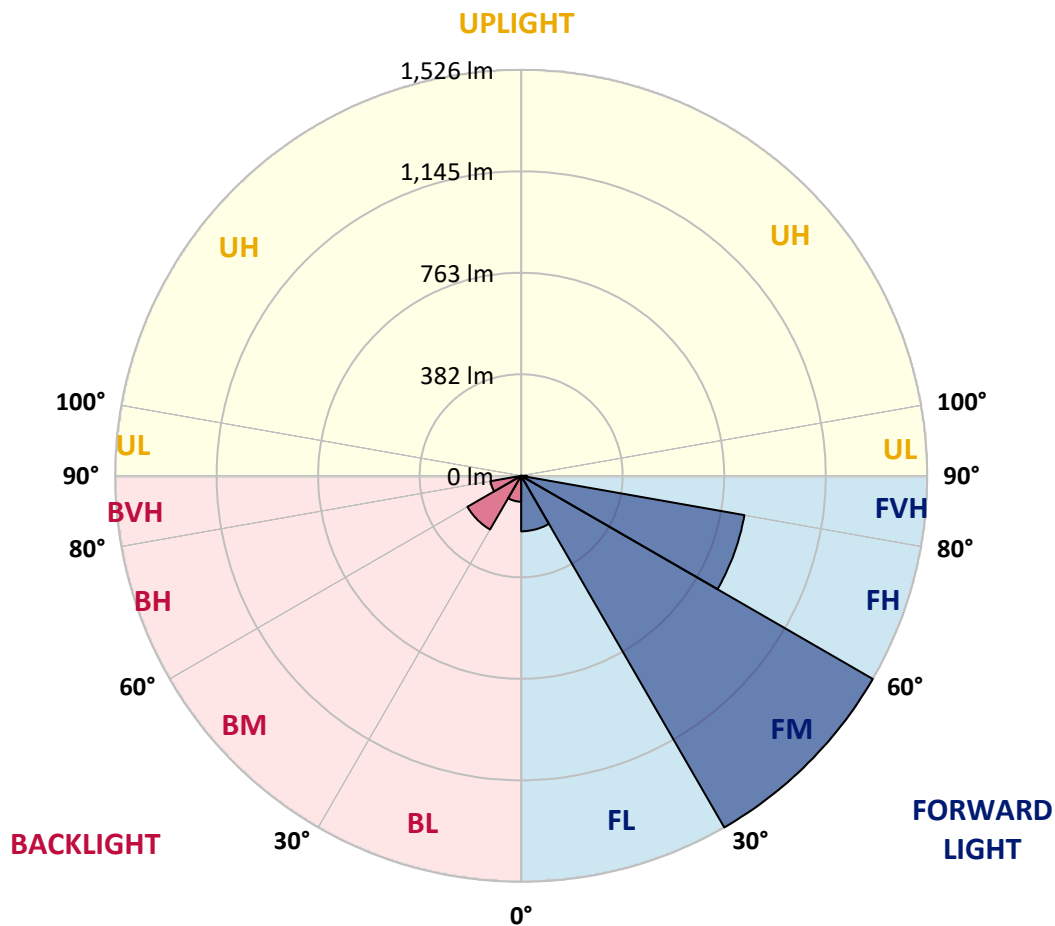
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	208.6	6.8			
FM	(30°-60°)	1526.4	49.9			
FH	(60°-80°)	852.2	27.9			G1/1800
FVH	(80°-90°)	20.1	0.7			G1/100
BL	(0°-30°)	97.2	3.2	B0/110		
BM	(30°-60°)	233.2	7.6	B1/1000		
BH	(60°-80°)	117.3	3.8	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2
2.5°	386.1	385.0	386.5	385.8	385.4	384.6	384.2	383.8	382.9	382.3	379.8
5°	387.1	386.5	388.0	389.2	390.5	391.8	392.4	393.2	392.4	390.7	388.2
7.5°	378.3	377.9	381.0	384.8	390.5	395.3	400.6	403.5	403.7	403.1	400.4
10°	377.6	376.6	379.8	384.4	391.8	400.4	409.6	415.9	416.8	419.5	416.6
12.5°	387.6	386.5	390.9	396.0	403.5	412.6	423.9	432.8	434.0	437.8	435.7
15°	404.2	402.7	407.7	414.2	423.9	434.2	446.2	454.2	455.2	459.9	456.1
17.5°	423.5	422.0	427.9	434.8	445.4	459.4	473.3	482.2	483.4	486.4	479.4
20°	448.3	446.4	451.0	457.4	468.5	485.3	501.9	514.6	514.3	514.3	503.0
22.5°	477.1	474.2	478.2	483.2	493.7	514.1	536.2	551.1	551.1	545.2	526.5
25°	508.0	505.1	509.5	514.1	523.4	546.5	572.4	590.9	591.7	581.6	551.8
27.5°	546.7	542.9	546.3	551.8	557.2	580.8	611.5	632.9	633.3	617.8	575.7
30°	621.2	610.4	599.9	594.0	596.6	619.9	652.7	676.5	678.6	657.1	601.8
32.5°	757.4	755.3	718.3	669.9	644.7	661.9	698.7	727.3	728.6	701.1	635.7
35°	969.1	966.7	907.1	815.1	732.8	718.3	754.7	788.5	787.7	756.6	679.6
37.5°	1221.9	1219.6	1141.1	1017.9	884.9	803.5	826.8	862.3	867.6	826.8	736.4
40°	1437.9	1429.3	1379.6	1260.9	1086.7	944.7	929.5	952.9	958.5	910.1	808.5
42.5°	1601.5	1594.1	1568.9	1494.7	1331.1	1153.7	1050.3	1059.3	1065.5	1007.5	891.3
45°	1686.2	1684.5	1694.6	1687.7	1580.0	1410.3	1223.1	1185.5	1187.9	1115.3	985.3
47.5°	1698.2	1697.4	1743.4	1808.6	1794.1	1699.7	1445.0	1342.9	1334.7	1237.1	1087.5
50°	1627.5	1625.9	1714.2	1836.4	1937.0	1942.8	1696.9	1520.1	1502.0	1363.0	1194.1
52.5°	1401.9	1401.5	1546.6	1749.9	1987.4	2155.6	1945.9	1714.8	1684.5	1496.3	1306.9
55°	1078.7	1086.5	1252.9	1493.2	1895.6	2258.0	2169.4	1931.0	1884.5	1630.5	1410.7
57.5°	764.1	775.5	939.9	1154.0	1611.3	2197.4	2320.6	2147.6	2097.5	1764.2	1516.1
60°	410.4	420.6	585.2	840.7	1198.7	1971.6	2400.3	2335.6	2288.2	1891.2	1611.1
62.5°	244.6	247.9	316.0	542.7	810.8	1506.2	2366.4	2478.8	2439.8	1997.8	1693.8
65°	175.6	176.2	210.5	331.4	492.3	915.1	2129.0	2547.3	2535.3	2078.2	1755.0
67.5°	147.8	147.4	161.7	220.2	335.4	458.4	1631.7	2450.4	2501.2	2129.0	1789.6
70°	126.8	127.4	144.2	161.2	252.2	259.5	811.3	2133.4	2242.0	2142.6	1787.6
72.5°	94.4	96.6	112.0	147.0	190.3	178.6	280.1	1581.9	1778.1	2018.6	1694.8
75°	66.6	67.8	78.8	123.6	142.0	130.0	143.0	817.7	1069.3	1547.6	1387.2
77.5°	51.4	53.2	59.8	86.4	139.8	91.2	87.4	283.0	434.8	934.9	951.1
80°	27.8	31.2	43.2	62.4	98.2	64.6	43.4	112.7	147.4	437.2	366.7
82.5°	14.3	16.0	30.0	45.0	56.0	56.4	21.4	46.8	60.8	135.0	50.2
85°	5.6	7.0	20.2	24.8	28.8	27.8	9.6	19.0	21.8	37.4	15.4
87.5°	1.2	2.2	7.4	5.6	5.4	5.8	2.4	4.4	4.2	4.4	2.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2	377.2
2.5°	379.6	378.7	376.4	373.9	370.9	369.2	368.2	368.0	366.5	365.4	366.5
5°	385.8	385.0	380.6	375.4	369.6	365.2	361.0	357.2	351.8	350.8	350.3
7.5°	398.5	396.2	389.0	381.8	371.2	358.3	342.8	324.9	308.9	304.0	301.8
10°	414.0	410.9	401.8	389.2	365.4	330.6	292.9	258.0	230.2	222.4	219.6
12.5°	431.7	429.0	417.0	393.6	341.7	278.4	220.8	177.4	150.6	143.8	142.0
15°	452.7	448.7	432.1	386.9	299.2	211.6	151.6	126.0	116.2	115.0	113.8
17.5°	475.0	468.5	445.6	362.7	242.0	150.4	117.2	109.8	105.6	104.3	103.6
20°	495.4	487.0	453.6	326.2	180.8	117.2	105.0	100.1	96.4	94.8	94.0
22.5°	515.8	503.8	453.6	276.3	135.6	103.8	96.4	91.8	87.4	85.6	84.6
25°	537.0	521.1	445.6	220.8	109.2	95.2	88.1	83.2	79.4	77.2	76.4
27.5°	557.7	535.6	427.3	168.2	97.2	87.6	80.6	76.0	72.4	70.6	70.6
30°	577.2	549.9	401.6	127.6	89.4	80.4	73.6	69.6	66.0	64.4	64.6
32.5°	603.7	568.0	374.3	104.8	82.6	73.4	67.2	63.6	60.4	59.0	59.0
35°	640.5	594.7	350.8	102.8	77.0	67.8	61.6	58.0	54.8	53.8	53.8
37.5°	692.7	637.8	338.4	115.4	72.4	62.6	57.0	53.2	50.2	49.4	49.2
40°	757.0	696.2	345.0	128.0	69.2	58.2	52.8	49.0	46.4	45.4	45.2
42.5°	833.3	768.3	382.3	137.8	67.0	54.4	48.8	44.6	42.9	42.4	42.4
45°	921.0	847.7	439.3	148.0	63.8	50.8	44.8	41.6	40.4	40.2	40.0
47.5°	1020.7	934.7	505.3	160.8	60.4	47.6	41.6	39.6	38.4	38.0	38.0
50°	1119.5	1022.3	573.2	168.0	57.6	44.4	39.2	37.4	36.6	36.4	36.4
52.5°	1222.9	1112.5	628.1	161.2	55.4	41.8	37.0	35.8	35.0	34.6	34.6
55°	1321.6	1185.5	637.6	136.9	50.6	39.4	34.6	34.0	33.0	33.0	32.8
57.5°	1406.5	1222.1	570.7	100.6	46.0	35.6	32.4	31.8	31.0	30.7	30.4
60°	1484.5	1211.7	440.5	67.8	41.0	31.8	29.4	29.0	28.2	27.2	27.0
62.5°	1528.5	1165.3	301.3	44.2	36.0	27.8	26.0	25.8	24.0	21.8	21.4
65°	1545.1	1070.3	188.0	32.2	30.0	23.8	22.5	22.0	19.4	17.0	16.8
67.5°	1530.6	913.9	94.8	25.4	23.8	19.8	18.6	18.6	16.6	14.6	14.3
70°	1472.6	685.1	40.0	20.4	18.2	15.2	15.2	16.0	14.0	11.8	11.6
72.5°	1346.6	460.9	21.2	15.6	13.6	10.8	12.4	13.0	11.2	8.8	8.8
75°	1070.5	281.2	14.8	11.6	8.6	7.6	9.4	9.8	7.6	5.8	5.6
77.5°	732.2	161.5	9.8	7.4	5.4	4.4	6.6	6.0	4.0	2.8	3.0
80°	321.5	67.2	5.6	3.4	2.2	1.6	2.4	1.6	1.2	0.8	0.8
82.5°	37.6	15.8	2.2	1.2	0.8	0.4	0.2	0.0	0.0	0.0	0.0
85°	7.8	1.8	1.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.4	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	0.0

(END OF REPORT)