

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: P959412

Luminaire Tested: **NVN-SB1A-827-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959412
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-SB1A-827-U-SL3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA 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: 3220.5 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

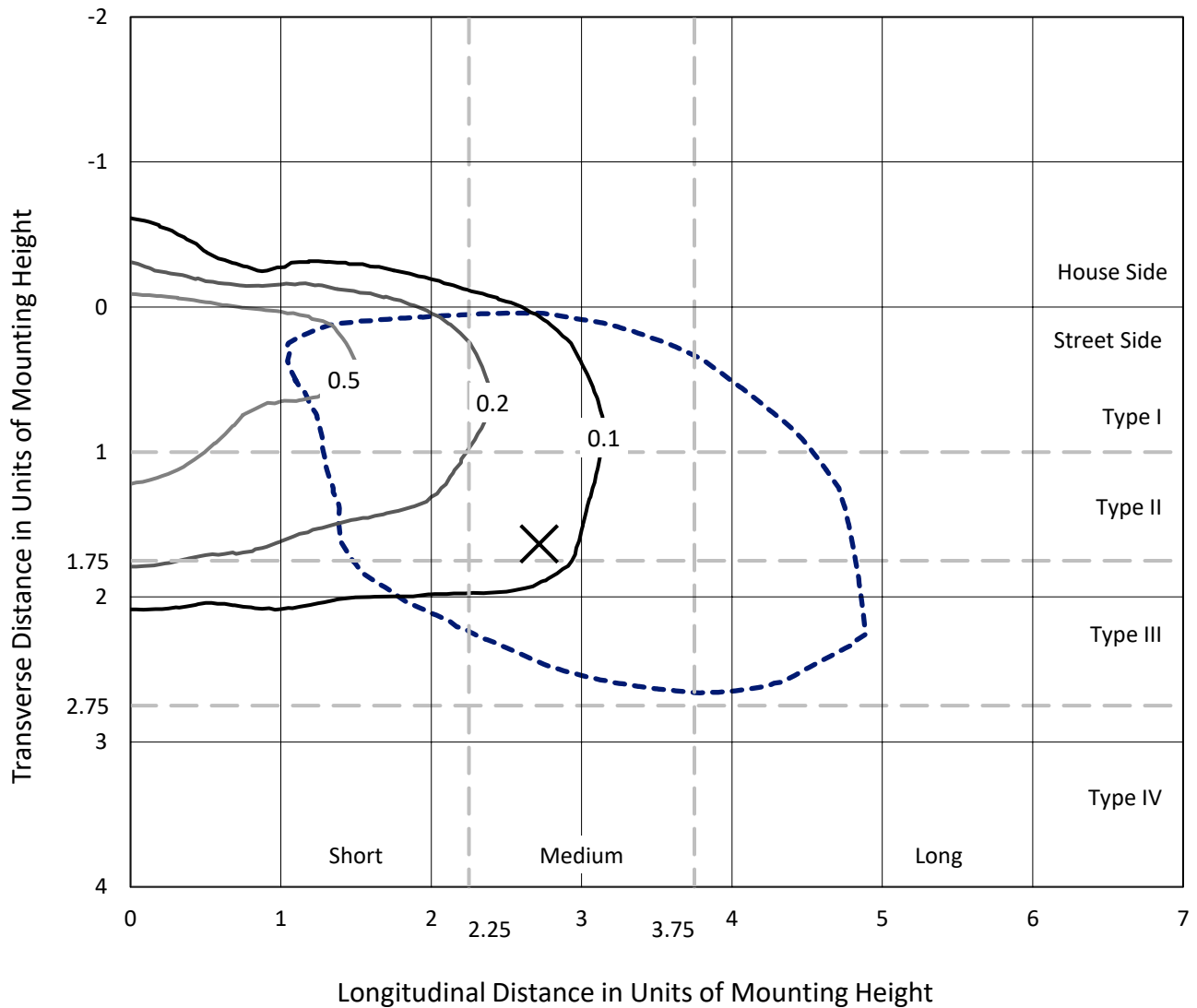
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

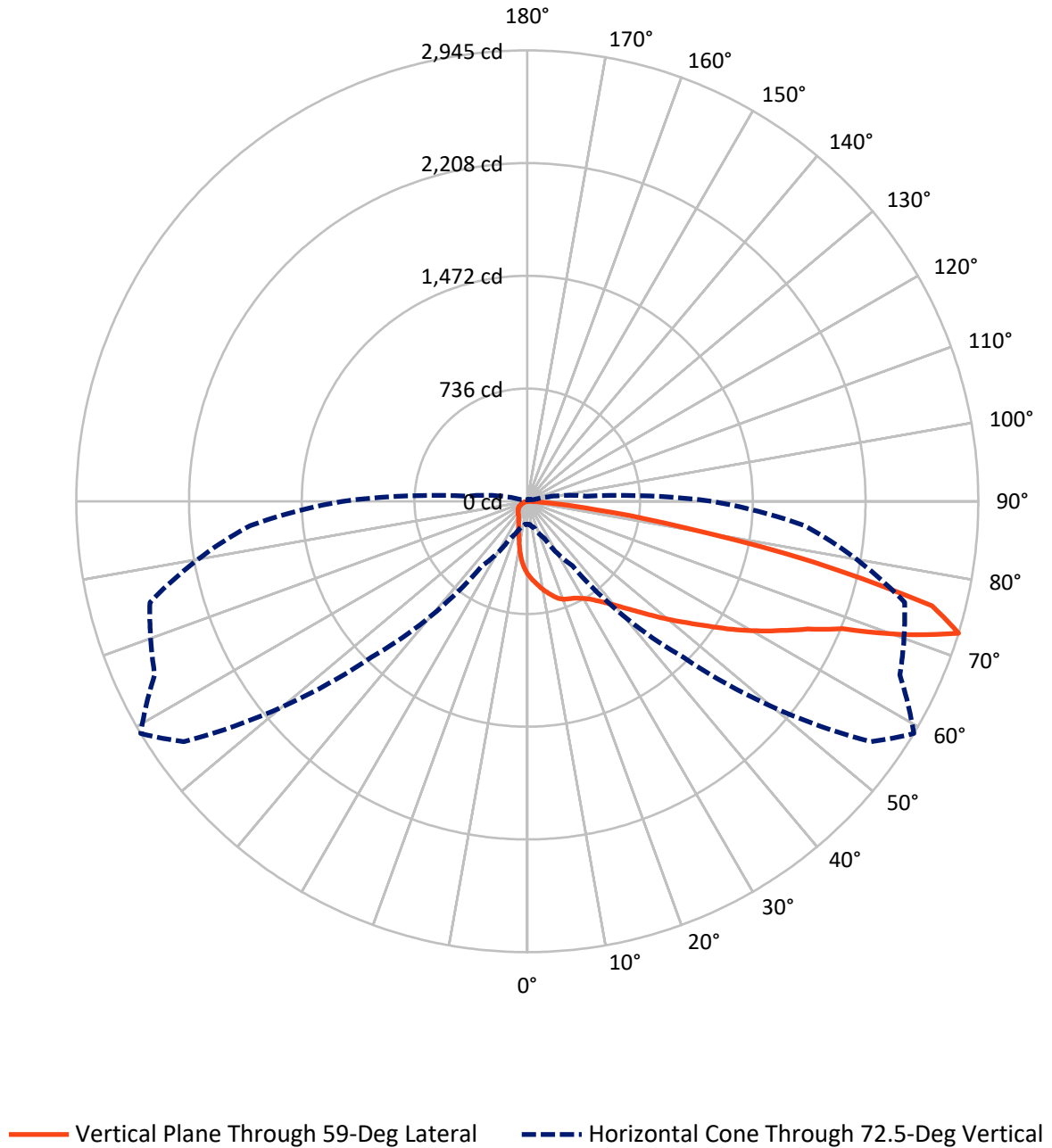
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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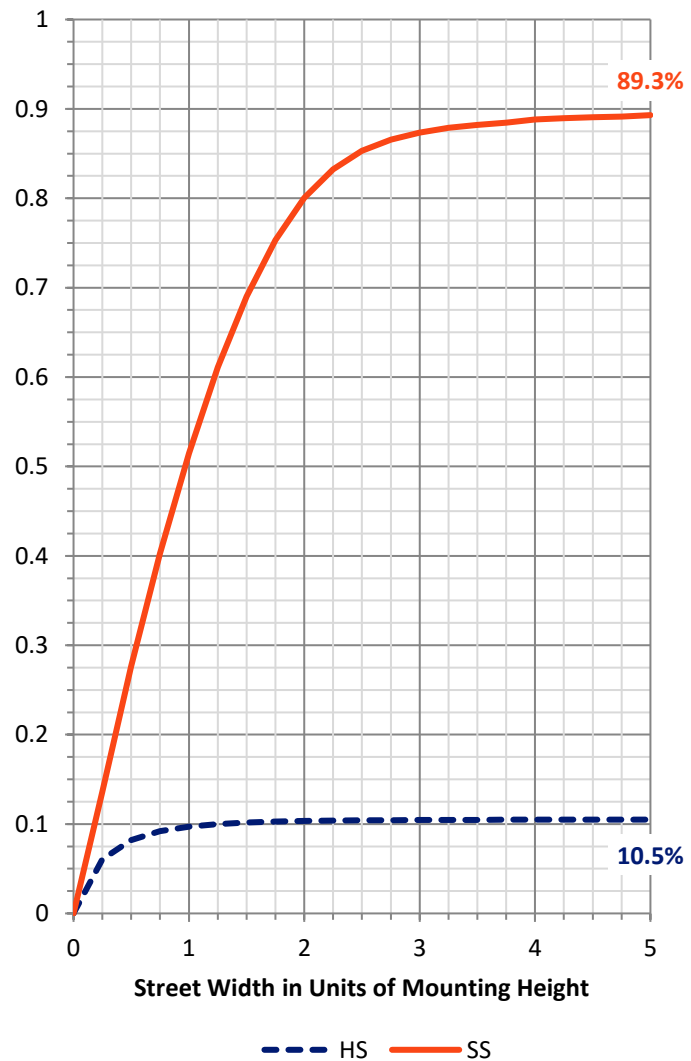
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	340.2	0.0	340.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2880.4	0.0	2880.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	3220.5	0.0	3220.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	1.3
10°-20°	114.4	3.6
20°-30°	181.4	5.6
30°-40°	291.1	9.0
40°-50°	464.9	14.4
50°-60°	673.1	20.9
60°-70°	798.8	24.8
70°-80°	593.0	18.4
80°-90°	60.6	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°	3220.5	100.0
0°-180°	3220.5	100.0

Coefficient of Utilization



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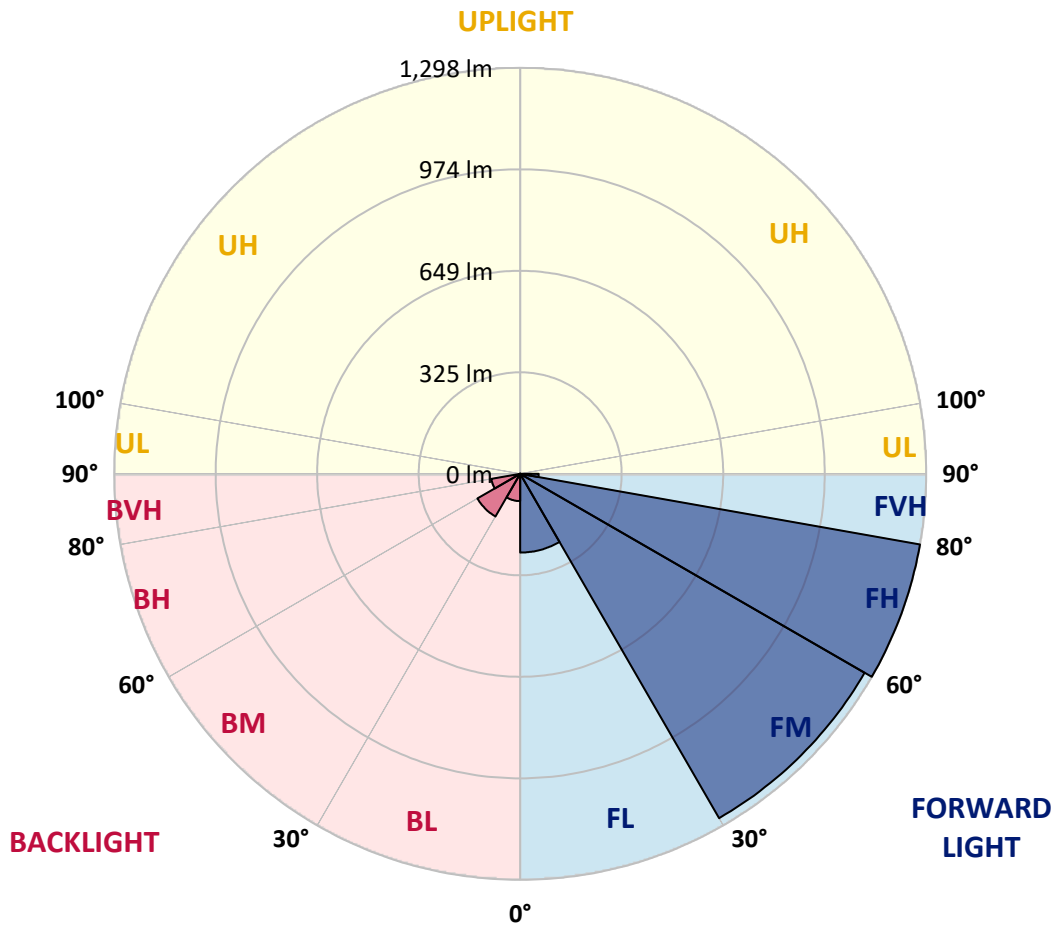
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	251.8	7.8			
FM	(30°-60°)	1271.4	39.5			
FH	(60°-80°)	1298.1	40.3			G1/1800
FVH	(80°-90°)	59.1	1.8			G1/100
BL	(0°-30°)	87.1	2.7	B0/110		
BM	(30°-60°)	157.7	4.9	B0/220		
BH	(60°-80°)	93.8	2.9	B0/110		G0/110
BVH	(80°-90°)	1.5	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2
2.5°	528.4	525.4	525.8	520.8	517.2	513.4	506.1	505.0	499.8	490.6	481.0
5°	574.4	572.6	570.8	565.2	557.8	548.6	536.2	531.8	522.0	506.1	487.6
7.5°	608.0	605.8	606.6	601.0	595.0	584.8	567.7	559.5	546.6	522.3	494.4
10°	614.6	613.4	618.8	620.9	620.9	614.4	597.8	589.6	570.8	539.8	501.2
12.5°	578.0	578.2	591.9	608.3	629.8	635.8	624.7	615.8	597.4	558.2	510.1
15°	535.4	535.6	548.8	569.8	605.0	640.0	648.8	643.2	624.0	578.2	520.4
17.5°	509.6	508.6	517.4	534.7	571.5	620.9	663.6	667.4	651.8	600.3	531.8
20°	506.1	504.2	508.8	517.4	543.8	597.0	665.2	683.2	680.4	625.4	544.8
22.5°	528.0	525.0	522.5	523.0	534.0	577.0	661.0	692.0	709.8	655.4	562.6
25°	571.2	566.6	558.4	548.0	545.6	572.8	658.2	701.6	737.2	693.8	586.2
27.5°	624.2	617.8	602.0	586.2	572.8	584.6	664.2	717.0	768.1	738.6	613.6
30°	682.5	674.6	658.8	628.9	607.4	610.8	678.8	737.2	807.6	789.4	647.8
32.5°	768.1	749.6	722.0	676.4	648.0	639.2	700.6	762.8	856.6	856.8	697.4
35°	841.4	831.2	803.4	746.6	688.4	676.8	729.4	799.0	924.6	946.2	766.8
37.5°	889.6	875.6	851.2	808.4	751.0	715.6	767.8	843.4	996.4	1048.0	852.4
40°	943.4	929.6	897.2	857.0	823.8	782.0	816.4	894.4	1075.3	1152.4	950.2
42.5°	1008.4	990.4	952.0	908.8	874.0	869.4	880.0	958.2	1156.2	1266.0	1052.0
45°	1084.8	1067.7	1023.8	969.1	938.6	930.4	959.8	1032.4	1246.4	1390.4	1154.8
47.5°	1156.2	1136.4	1089.2	1039.4	1005.4	979.6	1044.8	1120.0	1348.6	1520.6	1251.9
50°	1217.0	1196.8	1153.5	1100.3	1077.4	1043.6	1128.2	1217.8	1450.0	1652.9	1340.6
52.5°	1258.6	1240.8	1189.8	1153.7	1138.2	1121.1	1226.0	1321.5	1550.9	1774.0	1428.3
55°	1249.2	1233.2	1188.4	1185.9	1184.8	1202.7	1343.0	1439.0	1653.7	1888.6	1515.6
57.5°	1219.1	1201.0	1145.1	1183.6	1220.8	1275.4	1469.5	1578.0	1766.4	1996.6	1599.7
60°	1130.6	1124.2	1090.2	1179.2	1235.9	1346.7	1614.2	1717.6	1888.4	2091.7	1674.3
62.5°	943.2	948.7	948.5	1188.4	1263.2	1427.9	1745.6	1858.9	2007.6	2183.1	1740.8
65°	706.2	725.2	749.4	1105.2	1299.8	1572.8	1902.7	2012.2	2128.7	2289.5	1808.2
67.5°	474.6	489.7	506.1	906.6	1190.9	1725.0	2163.6	2222.3	2273.8	2407.5	1884.2
70°	271.6	276.5	299.4	566.2	918.0	1682.9	2588.5	2609.8	2490.1	2552.8	1939.4
72.5°	152.2	150.6	180.8	268.8	513.0	1441.1	2737.4	2944.5	2683.8	2550.5	1816.0
75°	101.8	102.0	124.4	169.4	200.0	1008.8	2358.9	2730.3	2567.7	2261.6	1483.8
77.5°	69.4	71.8	91.4	131.0	92.6	492.2	1560.6	1912.5	2078.9	1746.4	1024.4
80°	30.0	30.2	60.4	94.0	62.4	156.6	809.1	1024.6	1303.8	980.6	405.8
82.5°	15.6	17.6	38.4	60.8	39.4	54.8	382.2	447.6	547.1	287.8	83.2
85°	5.4	6.6	23.8	29.8	19.8	19.6	133.0	135.6	115.8	43.4	23.0
87.5°	0.0	1.0	9.2	7.4	2.6	2.4	15.8	13.2	10.6	6.0	7.6
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°	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2
2.5°	476.6	471.0	461.8	450.4	437.2	430.0	419.6	413.4	407.7	408.0	412.6
5°	477.3	467.8	444.2	419.2	391.5	371.2	348.4	332.4	320.2	317.2	321.7
7.5°	479.2	463.2	424.8	383.1	336.8	302.6	271.2	251.4	240.4	237.4	240.4
10°	481.7	458.2	402.6	339.0	281.6	240.4	214.2	201.6	196.6	192.8	195.2
12.5°	483.8	452.9	374.9	293.4	232.4	200.2	180.4	169.8	165.4	162.8	164.2
15°	487.4	446.0	344.8	250.8	199.2	172.8	154.2	146.4	145.0	145.5	146.2
17.5°	491.0	439.2	311.2	217.6	174.8	148.8	137.6	136.2	138.0	139.6	140.2
20°	495.0	429.6	277.2	192.6	152.2	132.2	129.4	130.2	131.0	134.0	134.8
22.5°	500.8	417.4	247.2	171.4	133.6	124.2	122.8	123.4	124.0	127.0	127.8
25°	509.2	404.4	223.0	151.8	121.8	117.8	116.2	116.2	117.2	119.8	121.0
27.5°	518.0	385.8	203.6	133.8	114.8	110.6	108.0	108.0	109.2	112.2	113.6
30°	528.0	369.0	188.2	120.2	109.0	103.4	100.0	99.2	100.6	104.6	105.6
32.5°	545.8	358.0	177.2	114.0	103.6	97.0	92.4	90.0	91.2	95.8	97.2
35°	573.0	355.6	169.6	110.8	98.6	91.0	84.6	81.0	82.0	86.8	88.4
37.5°	604.8	360.8	162.4	106.6	93.8	85.4	76.8	72.2	73.8	78.2	79.4
40°	650.4	382.6	156.6	103.4	89.0	78.6	69.0	64.4	67.0	70.8	71.4
42.5°	705.4	421.6	155.2	100.6	83.0	71.4	61.8	58.4	60.6	64.2	64.8
45°	773.8	471.2	162.0	96.8	76.6	64.6	56.2	54.2	54.8	58.4	60.2
47.5°	847.2	522.0	180.4	93.4	70.8	58.8	51.8	50.0	49.6	53.0	55.0
50°	921.4	567.2	202.2	90.8	66.8	54.2	48.4	46.2	45.2	47.4	48.2
52.5°	994.8	603.2	216.6	86.6	62.8	49.6	45.4	42.2	40.4	41.4	42.2
55°	1069.2	634.8	217.4	80.4	59.0	46.6	42.4	38.8	36.6	36.6	37.0
57.5°	1138.8	662.6	205.0	72.0	53.8	44.0	38.4	35.6	33.0	32.2	32.4
60°	1200.4	683.2	184.4	62.4	49.2	40.4	34.4	32.2	29.0	27.4	27.0
62.5°	1255.2	693.2	156.2	52.8	43.6	36.2	30.6	28.2	24.0	21.8	21.6
65°	1301.8	683.0	126.8	43.8	38.6	31.6	26.2	23.8	19.2	16.6	16.6
67.5°	1347.8	635.8	95.8	36.8	33.6	26.4	21.6	19.4	16.0	13.8	13.8
70°	1353.6	536.8	67.0	31.0	28.0	20.4	17.4	16.0	13.0	11.2	11.0
72.5°	1205.0	386.2	40.8	25.2	21.8	14.6	13.8	12.6	9.6	8.4	8.2
75°	963.2	236.8	24.0	19.0	14.6	10.4	10.4	9.0	6.6	5.4	5.4
77.5°	665.7	123.8	14.0	12.2	8.6	6.0	6.8	5.4	3.2	2.6	2.6
80°	266.6	47.0	7.6	5.6	4.0	2.8	2.4	1.2	0.6	0.4	0.6
82.5°	53.2	12.4	2.6	1.4	1.4	0.6	0.0	0.0	0.0	0.0	0.0
85°	13.6	2.8	0.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	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)