

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: P959235

Luminaire Tested: **NVN-SB1A-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1A-727-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3115 lumens
Efficiency: N/A
Efficacy: 100.8 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

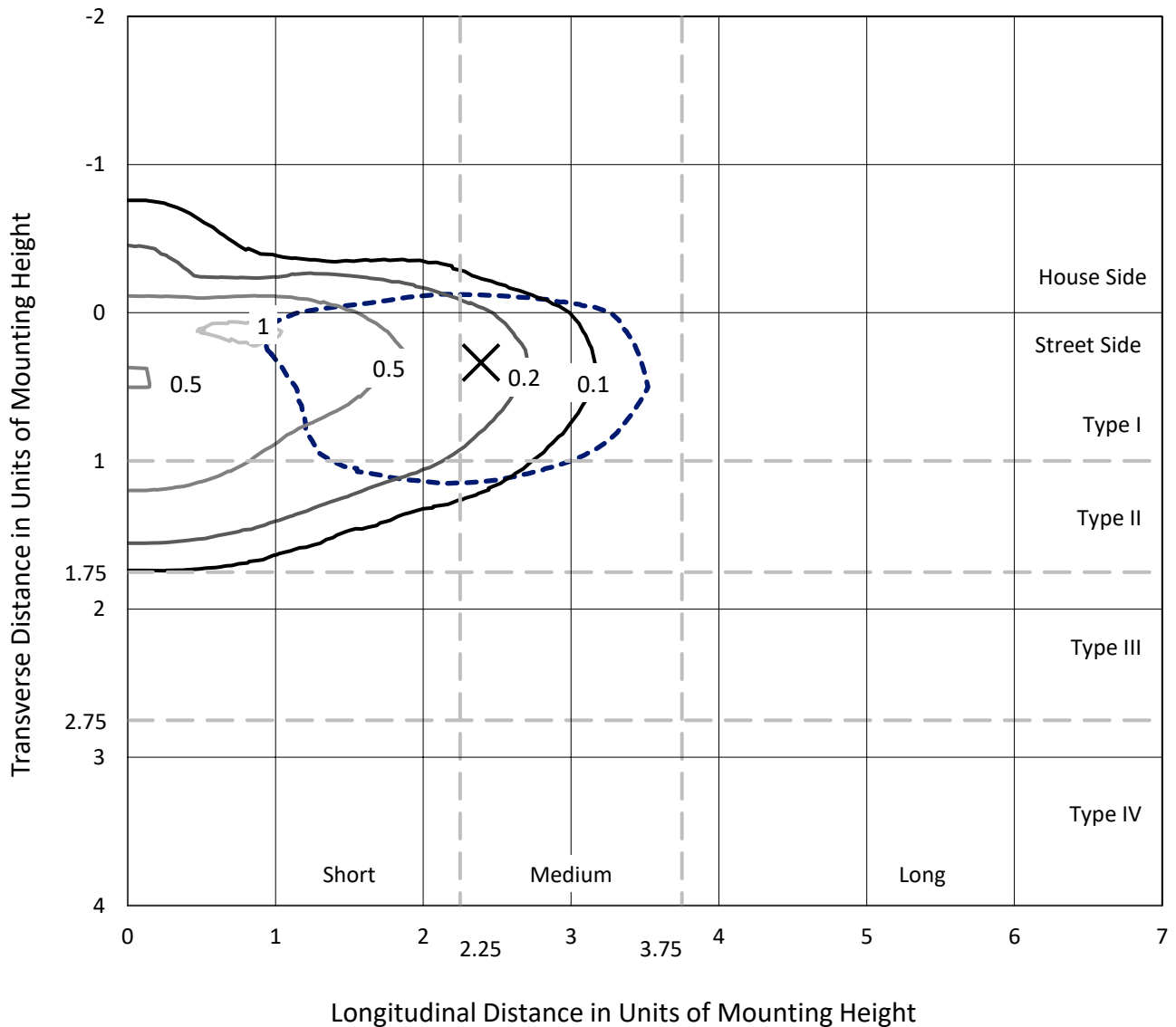
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

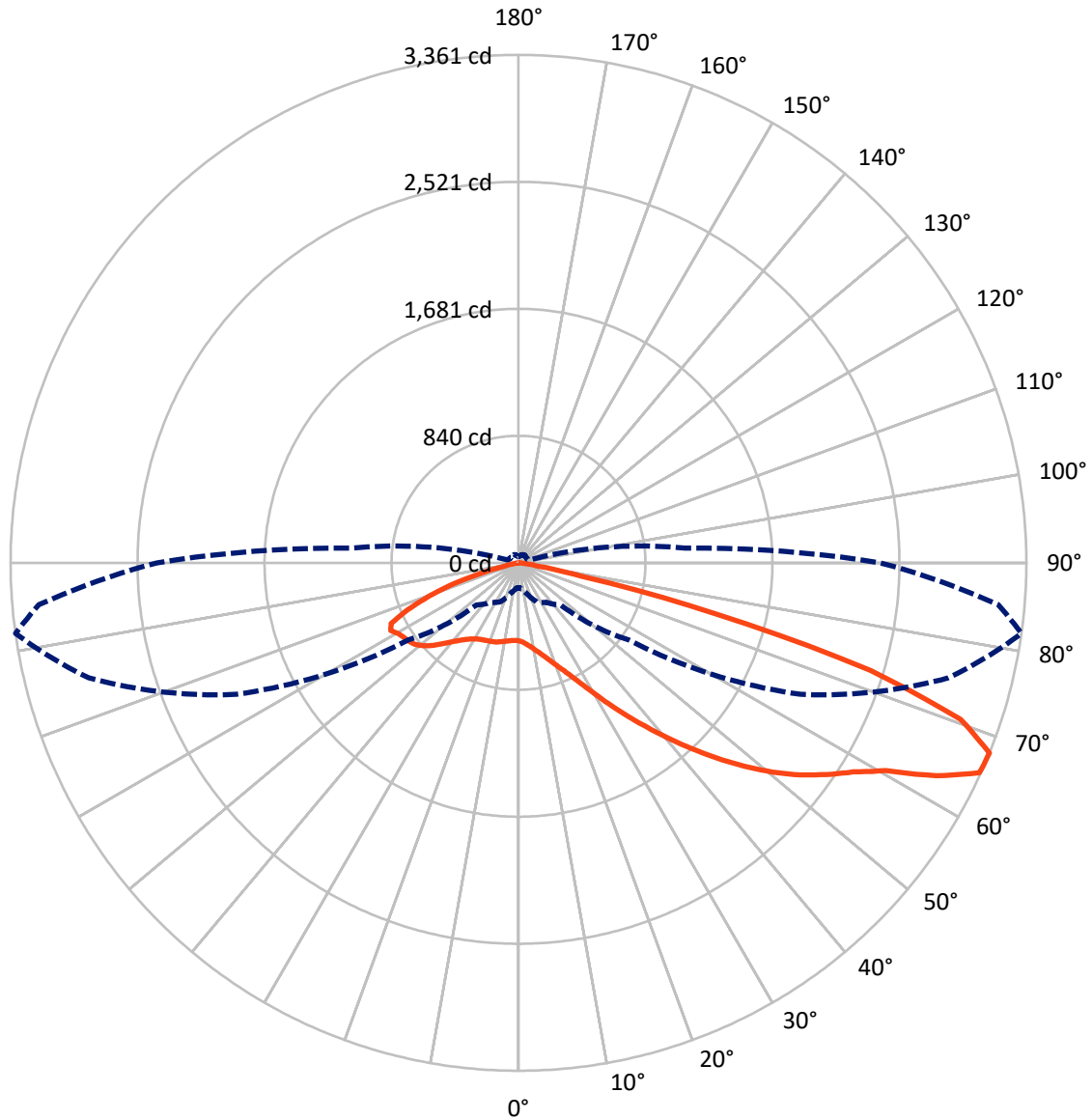
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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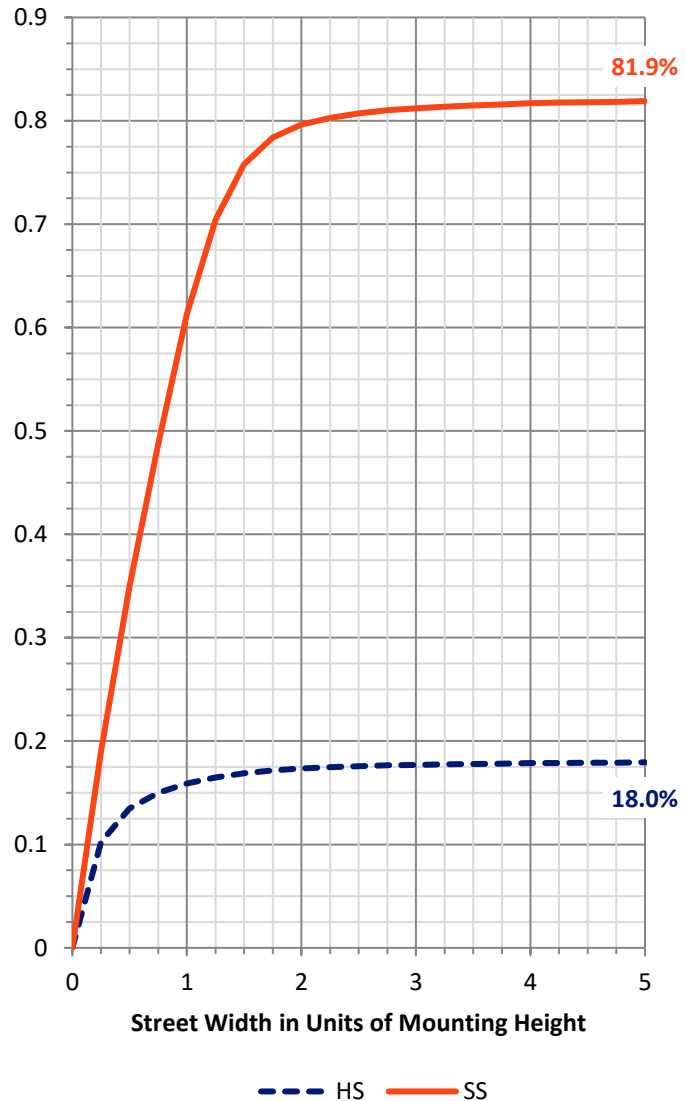
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	564.2	0.0	564.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2550.7	0.0	2550.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	3115.0	0.0	3115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	1.5
10°-20°	119.5	3.8
20°-30°	191.4	6.1
30°-40°	338.4	10.9
40°-50°	592.9	19.0
50°-60°	790.7	25.4
60°-70°	736.1	23.6
70°-80°	282.5	9.1
80°-90°	17.5	0.6
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°	3115.0	100.0
0°-180°	3115.0	100.0

Coefficient of Utilization



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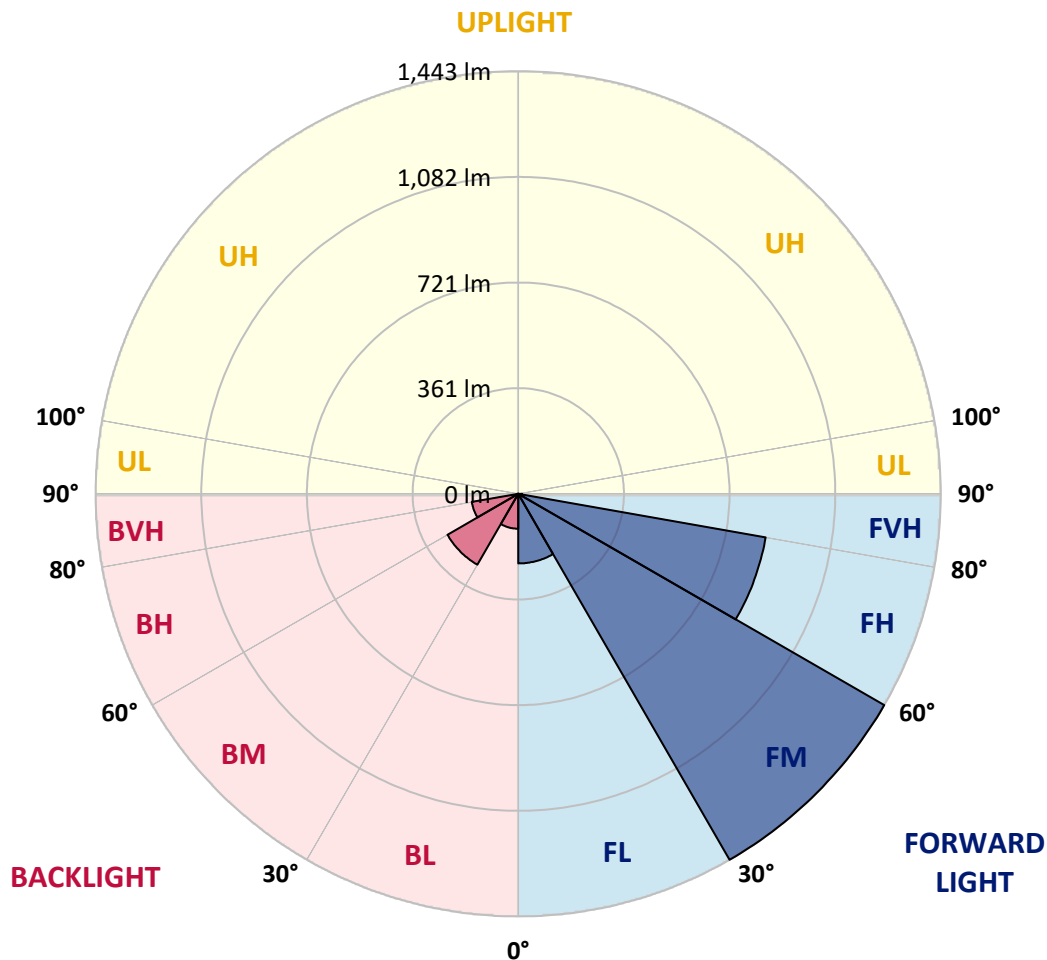
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	237.6	7.6			
FM (30°-60°)	1442.7	46.3			
FH (60°-80°)	857.6	27.5			G1/1800
FVH (80°-90°)	12.8	0.4			G1/100
BL (0°-30°)	119.2	3.8	B1/500		
BM (30°-60°)	279.2	9.0	B1/1000		
BH (60°-80°)	161.0	5.2	B1/500		G1/500
BVH (80°-90°)	4.8	0.2			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°	82°	85°
0°	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1
2.5°	545.4	548.6	546.7	545.9	544.3	542.0	540.3	534.6	528.8	525.0	523.7
5°	556.4	559.5	559.3	560.3	561.4	562.0	561.6	555.2	547.0	540.5	536.7
7.5°	547.0	550.6	553.5	558.0	565.8	574.1	578.2	576.9	568.3	559.3	554.6
10°	520.3	524.1	531.1	541.6	558.2	576.2	591.2	598.1	592.8	582.9	576.4
12.5°	471.4	475.2	488.9	511.8	539.6	570.7	599.5	618.1	619.4	609.6	602.0
15°	416.5	420.2	434.9	463.6	505.9	556.0	603.9	639.2	651.1	642.6	633.3
17.5°	382.4	385.7	396.8	419.8	464.0	526.3	602.4	661.6	688.7	682.0	671.1
20°	372.1	374.9	380.2	396.3	433.1	495.6	592.0	682.6	729.3	725.5	713.2
22.5°	383.0	385.7	387.3	394.5	417.6	475.5	579.0	704.2	776.4	776.8	761.9
25°	408.4	411.1	409.3	413.8	423.8	469.1	574.1	729.6	835.6	840.6	823.5
27.5°	450.1	450.4	446.1	445.9	447.4	478.6	579.3	756.7	910.3	919.5	898.4
30°	533.7	530.4	514.0	496.3	488.2	506.9	593.7	788.7	998.5	1014.9	988.4
32.5°	662.8	657.7	627.7	585.4	542.7	552.4	619.4	825.3	1094.4	1124.0	1091.7
35°	802.7	801.3	769.9	706.9	632.4	617.2	661.3	873.3	1199.1	1246.3	1208.0
37.5°	932.7	932.0	914.1	839.9	749.3	707.6	728.7	936.1	1311.3	1379.4	1334.1
40°	1051.6	1053.6	1035.7	969.3	878.0	823.5	820.2	1013.7	1436.0	1524.6	1470.8
42.5°	1154.4	1156.6	1138.4	1089.3	1005.2	951.8	932.5	1108.7	1557.8	1680.5	1616.7
45°	1224.1	1238.0	1235.3	1196.1	1135.7	1080.4	1067.5	1228.2	1696.6	1845.7	1771.1
47.5°	1243.8	1256.5	1276.7	1282.2	1245.4	1190.8	1206.1	1371.9	1837.0	2011.3	1926.3
50°	1195.1	1207.0	1249.0	1304.8	1330.3	1313.5	1340.9	1525.9	1980.7	2176.3	2078.5
52.5°	1099.1	1111.3	1164.2	1252.6	1356.8	1409.8	1476.1	1677.7	2120.0	2332.6	2222.7
55°	960.3	973.1	1041.1	1141.1	1306.4	1449.5	1589.0	1829.4	2247.6	2473.2	2352.8
57.5°	771.5	780.9	851.6	991.5	1179.5	1410.0	1672.2	1994.9	2367.9	2611.4	2481.7
60°	502.9	511.1	593.2	749.3	969.0	1278.1	1688.8	2179.5	2527.5	2791.1	2655.6
62.5°	334.4	340.0	388.7	503.3	682.4	1024.9	1591.6	2326.9	2761.7	3103.7	2953.6
65°	229.4	235.0	283.7	363.6	441.0	677.9	1312.4	2307.3	2973.8	3352.0	3174.5
67.5°	163.7	168.4	209.7	285.1	319.2	393.8	889.7	2057.9	2943.3	3361.4	3186.4
70°	117.3	120.0	154.1	222.0	253.7	236.6	494.8	1573.9	2577.1	3103.9	2943.8
72.5°	82.1	83.0	107.0	169.1	204.3	172.7	235.4	1049.4	1949.1	2436.2	2282.2
75°	55.7	56.8	72.0	124.0	163.9	131.9	124.7	562.7	1144.2	1348.5	1208.8
77.5°	34.1	34.5	46.4	84.8	122.7	100.4	80.3	238.4	442.7	434.6	370.5
80°	19.3	19.3	29.6	52.7	83.6	64.8	56.3	101.4	140.2	123.1	108.5
82.5°	10.8	11.0	21.5	32.7	55.4	38.3	31.0	46.8	60.6	53.6	46.6
85°	4.5	4.9	13.2	15.5	26.4	19.1	12.6	19.8	22.4	20.0	14.6
87.5°	0.4	0.7	4.0	2.9	3.2	3.8	1.8	3.8	3.2	3.2	2.3
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°	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1
2.5°	519.4	516.1	507.5	497.6	484.6	478.4	469.9	464.0	459.1	459.5	455.0
5°	529.5	521.0	501.9	478.2	448.5	427.4	405.1	389.6	377.0	374.3	368.3
7.5°	543.5	529.9	496.5	453.7	403.6	365.8	331.9	310.2	294.7	289.8	284.8
10°	561.4	541.8	489.5	423.0	351.0	302.8	266.4	249.4	238.8	235.2	232.6
12.5°	582.2	555.6	480.4	385.5	296.7	250.3	227.1	218.6	215.2	214.2	213.5
15°	608.4	572.6	466.5	341.1	250.7	218.2	208.4	207.3	207.7	207.3	207.0
17.5°	639.6	591.2	443.8	295.4	219.8	201.8	198.2	199.2	200.3	200.1	199.6
20°	673.7	609.6	414.9	254.8	198.7	190.1	188.2	189.0	189.9	189.5	189.3
22.5°	712.5	629.3	382.8	223.1	184.6	179.4	177.2	177.4	177.4	176.5	176.1
25°	758.9	651.1	349.2	200.7	173.8	169.7	167.1	166.2	164.8	162.2	161.7
27.5°	814.4	674.1	316.9	185.0	165.3	161.4	158.4	156.1	152.7	148.2	147.8
30°	876.7	702.2	289.6	175.2	158.6	154.8	151.2	147.8	142.9	137.2	136.8
32.5°	950.0	732.3	269.6	168.6	152.5	148.4	144.2	140.2	134.8	129.1	129.4
35°	1037.5	768.5	257.9	164.2	147.8	142.4	137.7	133.2	129.1	124.2	123.8
37.5°	1132.3	807.2	254.3	162.0	144.6	136.3	131.0	127.8	127.4	124.4	124.2
40°	1236.1	852.9	257.0	160.6	141.2	130.5	124.7	124.0	125.2	120.0	120.2
42.5°	1346.0	907.1	261.5	159.0	136.5	124.7	119.1	119.1	118.2	111.0	111.0
45°	1464.9	969.8	266.0	155.2	131.0	118.9	114.6	113.1	109.3	102.3	102.1
47.5°	1584.6	1033.4	269.4	148.2	124.2	114.0	110.1	106.5	101.0	94.6	94.4
50°	1698.4	1090.6	265.8	138.0	116.6	109.3	105.2	100.2	94.2	89.9	89.3
52.5°	1800.0	1140.2	250.5	125.8	108.5	104.2	100.7	95.5	90.6	86.1	85.7
55°	1888.4	1180.3	223.6	114.4	101.4	100.0	96.5	89.9	83.2	79.4	78.9
57.5°	1973.1	1210.8	189.9	105.0	94.9	95.3	89.9	84.2	77.8	73.8	73.3
60°	2086.0	1251.6	155.9	96.2	87.9	89.3	83.4	79.1	71.3	66.1	65.5
62.5°	2266.3	1315.1	123.8	85.5	79.8	80.3	77.8	72.7	63.2	57.2	56.8
65°	2409.4	1291.8	97.6	73.8	70.6	71.3	71.3	65.7	55.7	48.7	48.0
67.5°	2393.2	1106.1	77.8	62.3	61.9	62.3	64.0	59.2	49.3	43.8	42.8
70°	2204.6	879.9	62.3	51.8	53.8	52.7	57.2	54.0	44.4	38.8	38.1
72.5°	1798.9	633.8	47.6	42.8	41.3	43.0	51.6	48.7	37.0	30.7	30.0
75°	1051.1	338.2	35.5	33.8	29.8	35.9	45.7	41.5	28.3	22.7	21.9
77.5°	342.2	118.0	26.0	24.9	22.2	28.9	39.1	35.0	23.1	17.9	17.2
80°	91.7	35.7	17.7	16.4	14.3	21.5	31.0	27.8	16.6	11.7	11.5
82.5°	36.8	15.1	10.4	9.2	7.9	14.8	24.4	22.4	12.3	7.4	7.4
85°	11.9	4.9	3.8	2.9	3.6	9.2	14.6	15.3	8.7	3.8	2.9
87.5°	1.5	0.7	0.7	0.9	0.7	1.5	4.5	4.3	2.5	0.4	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)