

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: P960476

Luminaire Tested: **NVN-SB1C-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1C-827-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5653.9 lumens
Efficiency: N/A
Efficacy: 103.9 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

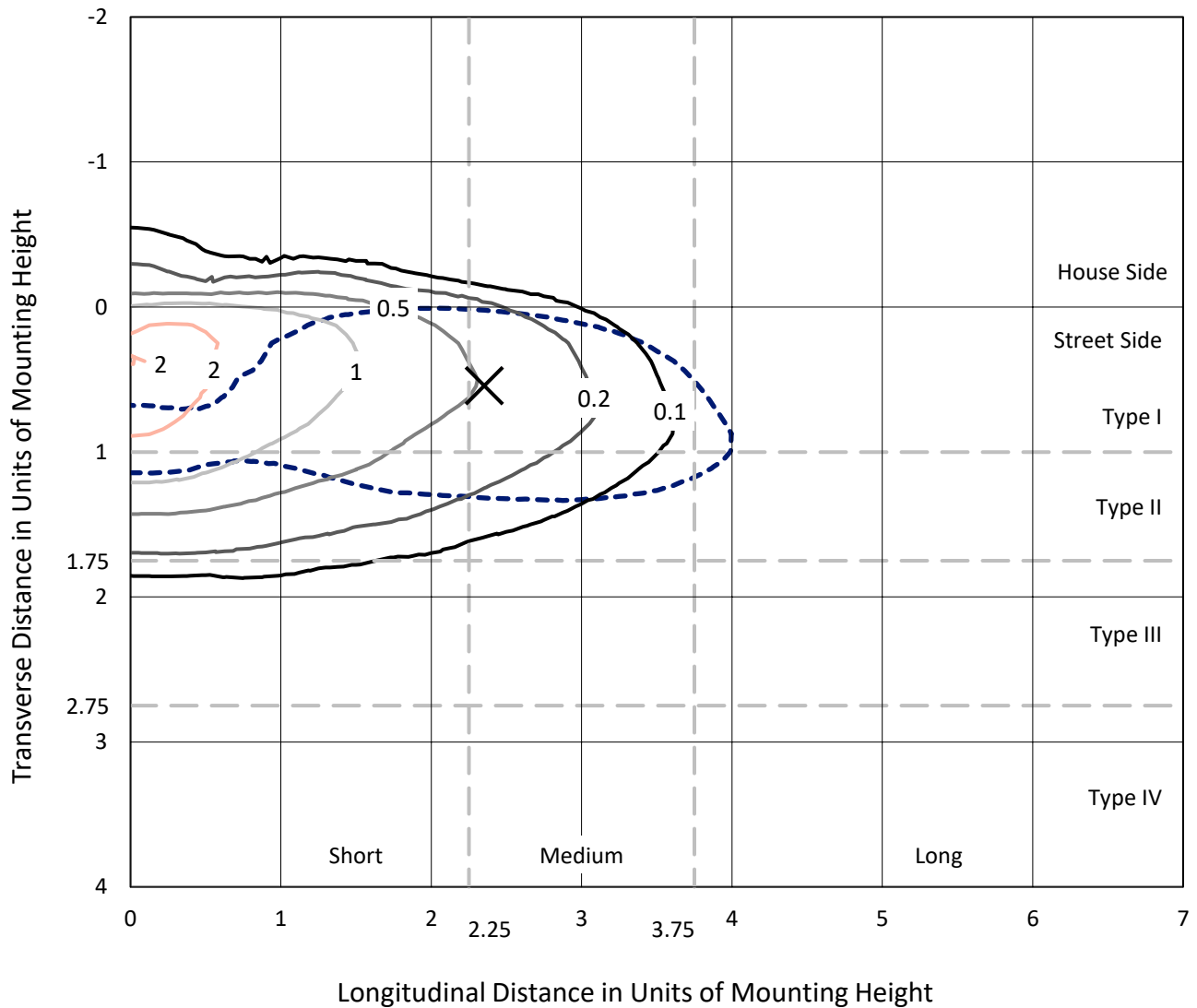
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

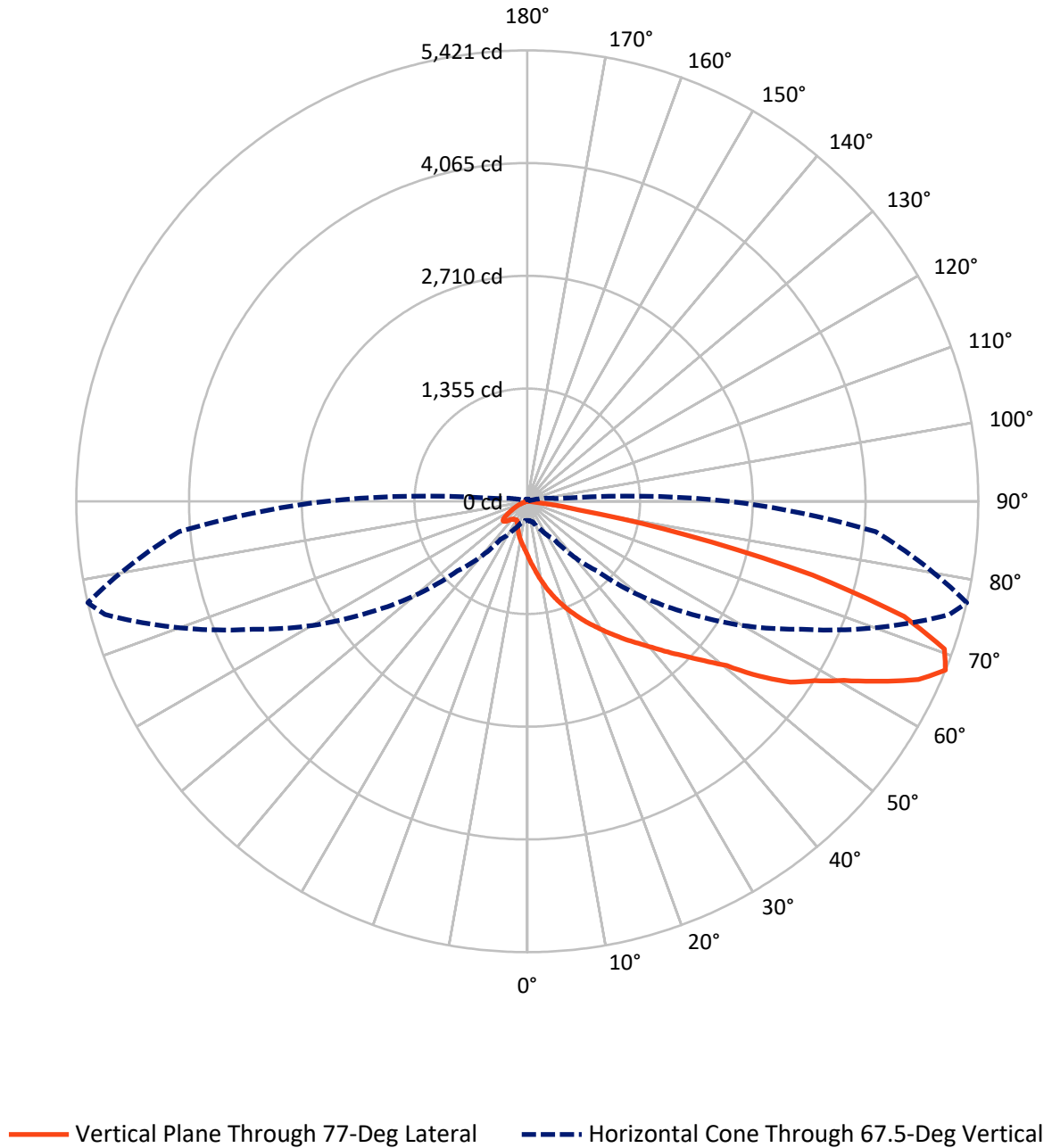
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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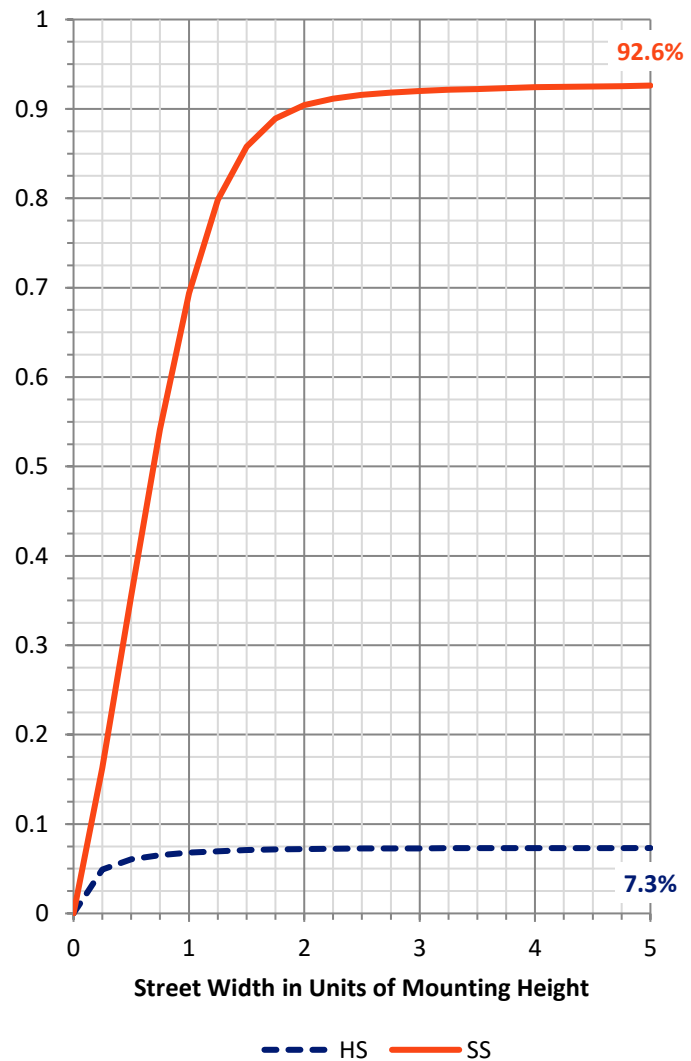
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	416.0	0.0	416.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	5237.9	0.0	5237.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	5653.9	0.0	5653.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.2
10°-20°	233.0	4.1
20°-30°	449.7	8.0
30°-40°	780.7	13.8
40°-50°	1133.5	20.0
50°-60°	1301.7	23.0
60°-70°	1130.1	20.0
70°-80°	532.3	9.4
80°-90°	26.3	0.5
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°	5653.9	100.0
0°-180°	5653.9	100.0

Coefficient of Utilization

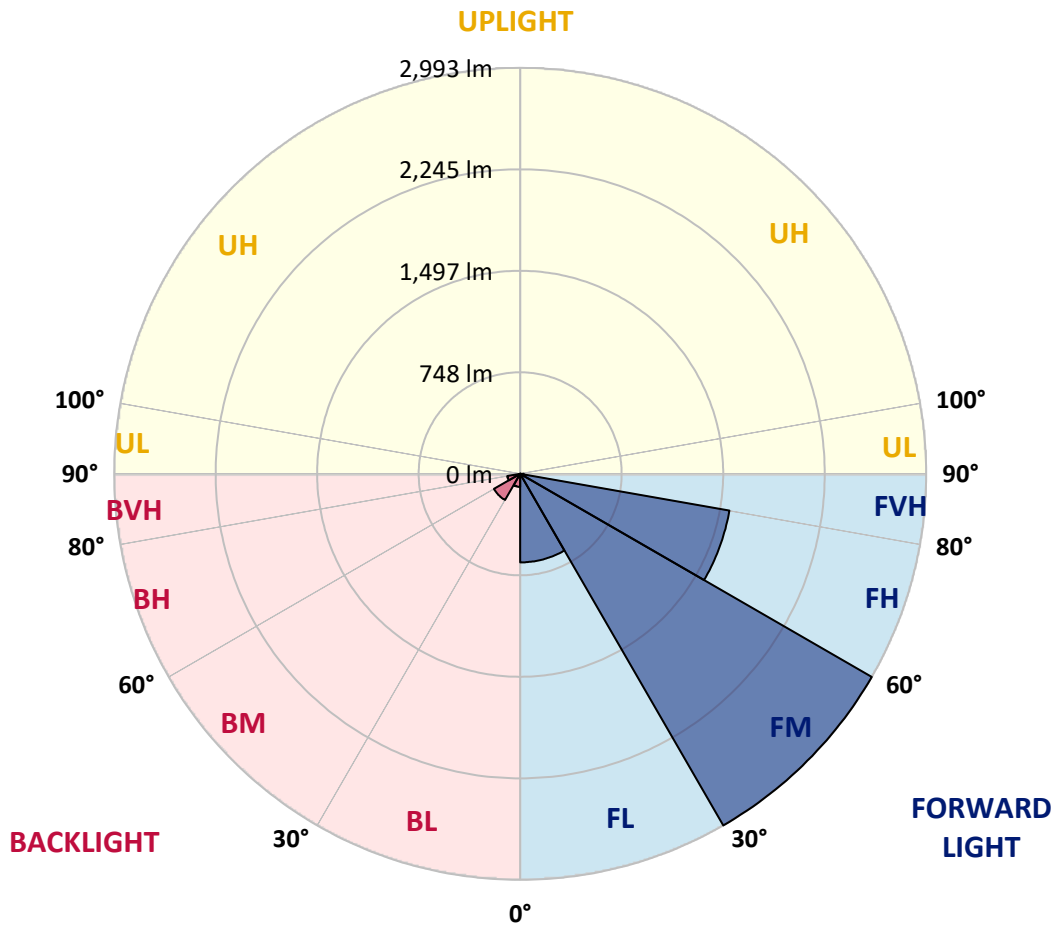


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.0	11.5			
FM (30°-60°)	2993.0	52.9			
FH (60°-80°)	1566.1	27.7			G1/1800
FVH (80°-90°)	25.8	0.5			G1/100
BL (0°-30°)	96.3	1.7	B0/110		
BM (30°-60°)	222.9	3.9	B1/1000		
BH (60°-80°)	96.3	1.7	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0
2.5°	902.6	908.3	900.2	884.8	861.6	846.4	809.6	774.9	736.3	724.0	685.3
5°	1100.3	1105.3	1096.1	1079.2	1048.4	1018.8	970.4	897.7	822.3	798.1	729.6
7.5°	1246.7	1249.6	1246.0	1230.6	1201.1	1167.8	1113.7	1027.7	915.6	889.0	784.0
10°	1352.1	1361.2	1360.2	1354.1	1334.6	1307.5	1249.9	1151.9	1020.3	985.8	845.4
12.5°	1421.9	1432.1	1438.1	1451.4	1450.4	1433.2	1382.6	1279.0	1124.5	1084.1	914.6
15°	1442.3	1453.1	1476.0	1506.9	1534.3	1543.0	1507.6	1403.6	1239.3	1187.8	985.5
17.5°	1430.7	1447.5	1475.0	1523.8	1583.7	1623.5	1619.6	1524.1	1343.7	1284.6	1055.0
20°	1456.3	1472.5	1493.9	1534.9	1604.8	1676.8	1705.6	1639.3	1447.2	1385.4	1128.0
22.5°	1598.2	1595.4	1597.5	1604.1	1645.9	1717.2	1776.5	1743.8	1549.7	1486.6	1205.3
25°	1822.9	1810.3	1788.8	1752.6	1742.1	1776.5	1838.3	1836.6	1657.8	1590.1	1284.3
27.5°	2080.5	2078.5	2028.3	1941.1	1892.0	1878.7	1908.1	1926.8	1764.9	1692.6	1363.7
30°	2327.4	2333.0	2265.2	2168.4	2078.1	2025.8	1999.2	2012.5	1873.8	1803.2	1445.5
32.5°	2542.3	2548.3	2474.5	2361.1	2249.5	2186.2	2130.1	2097.0	1992.5	1915.5	1535.3
35°	2723.7	2729.8	2645.1	2519.8	2400.8	2343.6	2280.0	2189.8	2111.8	2040.2	1635.4
37.5°	2886.0	2884.2	2770.8	2644.4	2527.5	2482.2	2448.8	2303.9	2234.7	2165.5	1746.3
40°	2981.8	2989.2	2892.3	2752.9	2639.5	2606.5	2604.4	2445.3	2376.6	2309.5	1867.9
42.5°	3009.9	3022.9	2952.7	2838.2	2735.3	2699.5	2754.7	2598.5	2541.6	2476.3	2005.1
45°	2959.4	2972.0	2940.0	2860.7	2800.7	2777.4	2883.8	2757.1	2717.8	2653.2	2159.9
47.5°	2811.9	2827.7	2835.5	2818.5	2817.8	2841.4	2999.8	2924.2	2927.1	2861.1	2339.4
50°	2526.4	2553.2	2624.1	2683.8	2776.1	2891.9	3112.4	3105.4	3162.9	3106.2	2573.2
52.5°	2007.6	2045.5	2289.8	2453.0	2660.6	2882.5	3236.3	3396.1	3576.9	3493.7	2902.8
55°	1613.2	1613.2	1812.0	2117.4	2435.2	2820.0	3290.5	3585.0	3858.8	3839.2	3134.9
57.5°	1315.2	1331.0	1457.8	1727.7	2109.0	2671.1	3323.8	3703.6	4086.0	4071.6	3361.7
60°	811.7	845.8	1085.3	1351.7	1737.9	2406.0	3302.8	3823.8	4361.6	4373.2	3634.9
62.5°	457.2	469.8	576.5	972.5	1351.4	2049.7	3141.5	3890.8	4714.1	4763.3	3916.4
65°	315.6	322.0	363.1	605.3	936.7	1631.9	2826.6	3849.0	5067.3	5166.7	4155.1
67.5°	229.3	232.5	258.1	369.7	555.8	1183.2	2333.0	3638.3	5254.5	5420.5	4200.9
70°	176.2	178.4	197.0	242.9	328.3	730.3	1694.3	3219.5	5119.0	5317.3	3967.0
72.5°	143.3	145.3	159.8	179.8	217.7	431.8	1026.9	2614.6	4520.7	4734.8	3377.2
75°	120.7	123.6	136.5	149.5	170.7	277.4	481.6	1820.8	3399.6	3540.0	2348.5
77.5°	67.0	61.8	110.9	123.9	143.9	175.6	225.4	1071.5	1903.9	1943.0	1042.0
80°	41.8	43.2	88.1	99.7	110.6	88.5	103.2	412.6	660.1	627.1	201.9
82.5°	2.5	5.6	67.8	72.0	75.8	37.9	38.9	140.1	159.1	146.1	35.8
85°	0.0	0.0	30.9	24.9	26.3	10.9	11.3	32.7	21.4	23.2	7.1
87.5°	0.0	0.0	0.0	0.7	0.0	1.0	2.2	2.8	1.0	1.4	2.5
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°	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0
2.5°	660.7	636.2	586.3	537.5	497.8	460.9	434.7	409.7	397.1	396.4	395.6
5°	680.8	629.1	529.4	441.4	370.4	313.5	276.6	250.3	237.0	232.5	231.8
7.5°	708.9	631.3	479.6	357.1	273.5	224.7	203.7	195.2	192.4	189.2	188.5
10°	744.4	636.2	435.0	287.5	215.6	191.0	182.6	179.1	176.9	174.9	174.1
12.5°	784.0	640.7	390.7	238.7	189.6	176.9	171.0	166.8	164.0	161.5	160.8
15°	822.6	643.6	344.8	204.7	176.2	166.0	159.8	155.2	151.3	148.5	148.1
17.5°	860.9	647.4	301.6	184.3	165.3	155.2	148.8	143.3	140.1	136.9	136.5
20°	903.3	646.7	260.9	169.9	154.5	144.3	137.7	132.3	129.3	125.7	125.4
22.5°	942.7	643.2	225.1	157.6	143.3	133.5	126.1	120.7	117.6	114.8	114.5
25°	988.0	640.4	195.2	146.4	132.7	122.9	114.8	109.9	106.4	103.9	103.5
27.5°	1031.5	636.2	173.4	136.2	122.5	113.1	105.4	99.7	96.6	94.8	94.8
30°	1074.3	635.1	165.3	126.4	113.4	103.9	96.2	90.9	88.5	87.7	87.4
32.5°	1126.0	638.0	168.9	122.9	105.0	95.5	88.1	84.3	81.8	81.8	81.8
35°	1181.1	637.2	174.1	126.1	99.3	87.0	81.5	79.0	76.6	76.6	76.6
37.5°	1250.2	638.3	178.4	131.3	97.3	80.1	76.9	73.7	72.4	72.4	72.4
40°	1353.4	673.0	176.2	135.9	96.6	75.1	68.8	67.8	66.7	66.7	66.7
42.5°	1479.9	748.6	179.1	136.2	96.2	71.6	63.2	65.3	62.8	62.5	62.1
45°	1618.2	831.1	197.0	128.8	95.8	69.9	60.4	62.8	58.9	58.9	58.9
47.5°	1755.4	912.9	215.2	118.3	94.8	69.5	57.9	56.5	55.5	55.9	55.9
50°	1944.7	979.6	222.2	103.9	92.4	68.8	53.4	53.7	53.0	53.7	53.7
52.5°	2150.8	993.6	213.8	87.7	85.3	66.7	50.2	51.7	51.2	52.0	52.0
55°	2279.3	978.5	176.6	73.0	74.4	58.3	47.0	49.8	49.8	49.8	49.8
57.5°	2412.0	914.2	125.4	59.3	61.8	47.8	44.3	48.1	47.8	47.4	47.4
60°	2507.5	810.4	82.5	48.8	49.2	39.4	41.1	45.3	44.9	43.2	43.2
62.5°	2578.8	695.5	53.0	41.4	37.6	35.5	37.6	41.1	39.7	35.8	35.2
65°	2570.7	536.5	40.7	35.5	30.9	30.9	32.7	35.8	31.6	25.3	24.6
67.5°	2420.7	363.1	33.7	29.8	25.9	25.6	27.1	29.8	27.1	21.4	20.7
70°	2152.9	237.3	27.1	23.2	20.7	19.0	21.7	25.6	22.9	17.2	16.5
72.5°	1747.4	144.6	20.4	16.8	15.1	12.3	17.2	21.1	18.2	12.6	11.9
75°	1130.5	73.7	14.0	10.9	8.1	7.4	12.6	15.8	12.6	7.7	6.7
77.5°	432.6	30.9	7.7	4.9	4.2	3.5	7.1	9.4	5.2	1.7	1.4
80°	83.2	13.0	3.9	2.5	2.2	1.4	1.0	0.7	0.0	0.0	0.0
82.5°	14.3	4.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	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)