

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: P963990

Luminaire Tested: **NVN-SB3B-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-727-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12372.8 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

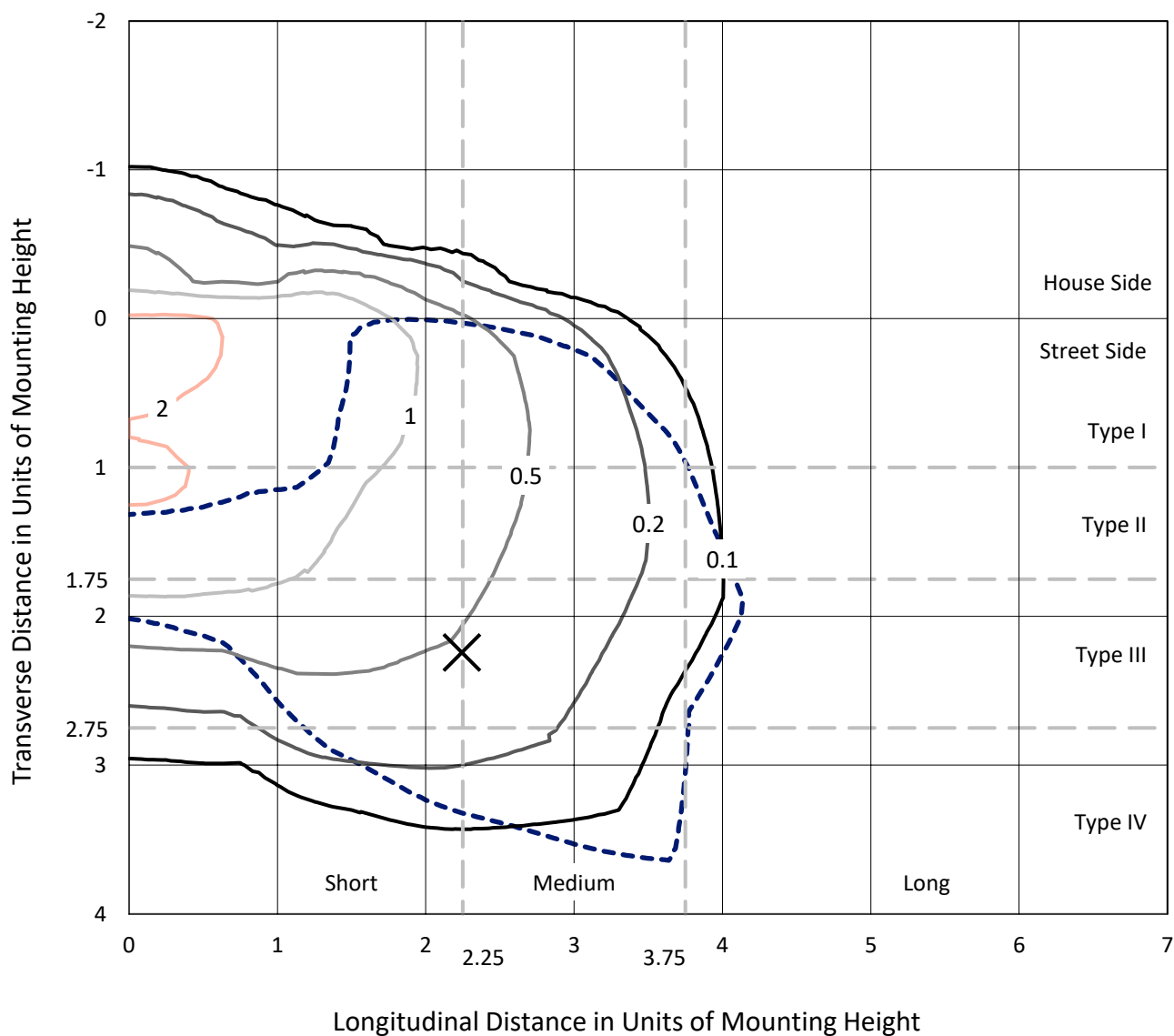
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

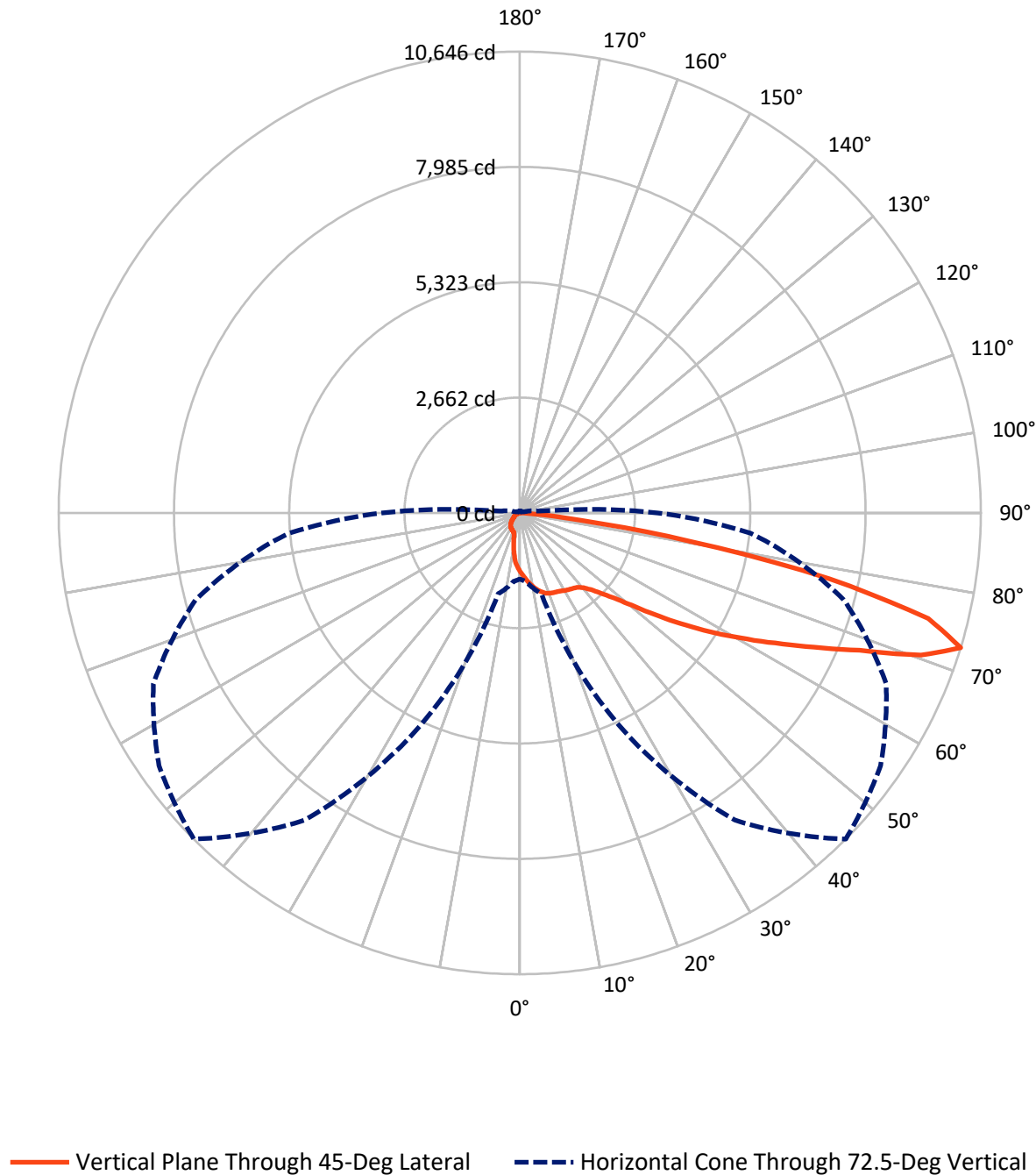
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1300.0	0.0	1300.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11072.7	0.0	11072.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	12372.8	0.0	12372.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	1.0
10°-20°	373.2	3.0
20°-30°	612.9	5.0
30°-40°	869.3	7.0
40°-50°	1436.8	11.6
50°-60°	2581.1	20.9
60°-70°	3584.0	29.0
70°-80°	2599.7	21.0
80°-90°	187.9	1.5
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°	12372.8	100.0
0°-180°	12372.8	100.0

Coefficient of Utilization



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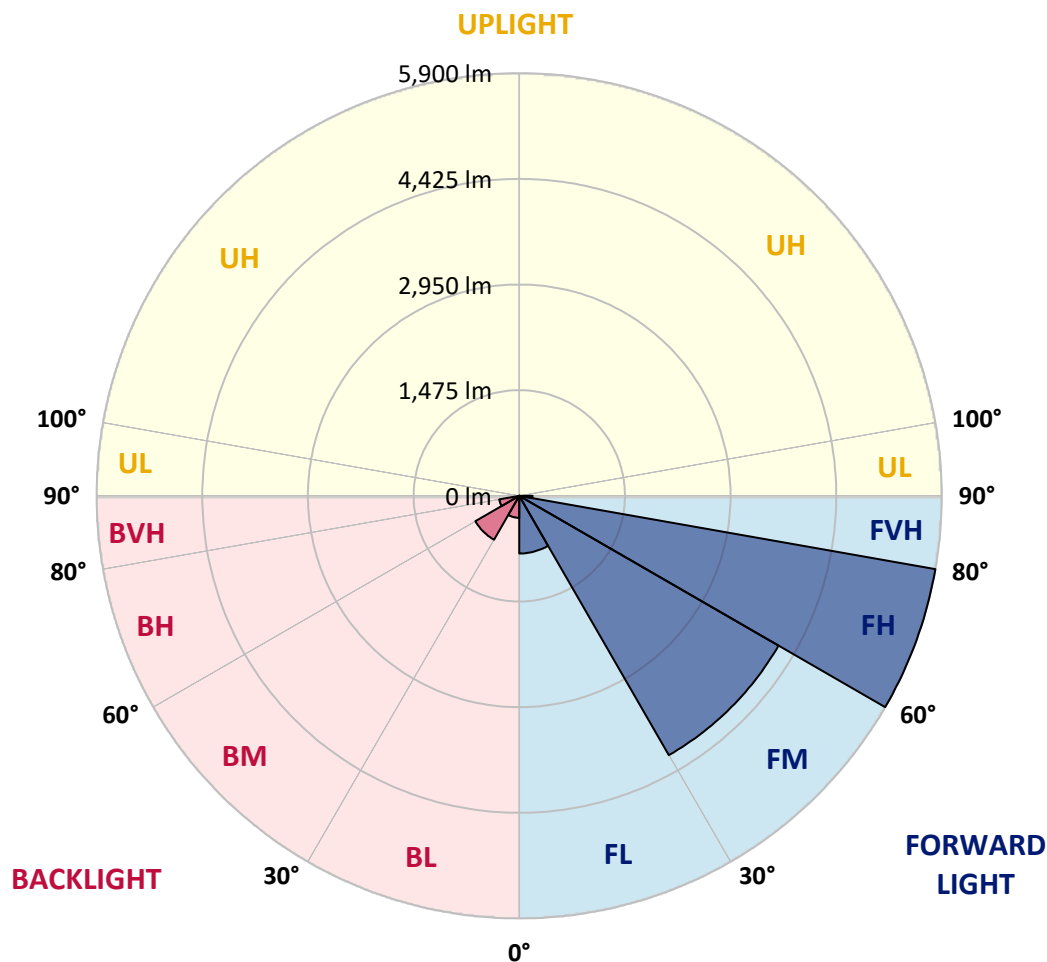
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	806.0	6.5			
FM	(30°-60°)	4180.2	33.8			
FH	(60°-80°)	5900.2	47.7			G3/7500
FVH	(80°-90°)	186.4	1.5			G2/225
BL	(0°-30°)	307.9	2.5	B1/500		
BM	(30°-60°)	707.0	5.7	B1/1000		
BH	(60°-80°)	283.5	2.3	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5
2.5°	1480.4	1483.0	1481.3	1471.2	1454.3	1444.9	1439.9	1423.0	1412.0	1392.7	1372.4
5°	1616.4	1626.6	1620.6	1600.3	1568.2	1545.5	1538.7	1504.1	1472.8	1436.5	1394.3
7.5°	1760.8	1765.9	1754.9	1728.8	1685.7	1646.9	1640.9	1592.7	1542.9	1487.2	1429.8
10°	1885.8	1891.7	1874.8	1836.8	1787.9	1739.7	1731.3	1678.0	1619.0	1550.5	1477.0
12.5°	1990.5	1996.5	1974.5	1928.9	1874.8	1825.0	1816.6	1760.8	1695.8	1619.8	1528.6
15°	2069.9	2081.0	2051.3	2002.3	1944.1	1894.3	1890.0	1835.2	1771.8	1687.4	1590.3
17.5°	2116.4	2127.4	2099.5	2040.4	1990.5	1948.3	1943.3	1897.7	1838.5	1757.5	1650.2
20°	2124.0	2134.2	2104.5	2053.1	2011.7	1977.8	1975.4	1942.4	1899.3	1821.6	1715.2
22.5°	2101.1	2113.9	2086.8	2045.5	2016.7	1999.0	1995.6	1977.0	1952.5	1886.7	1776.0
25°	2077.6	2087.6	2067.4	2031.0	2015.9	2014.2	2016.7	2013.3	2008.3	1952.5	1846.9
27.5°	2075.8	2086.8	2064.0	2029.4	2021.0	2038.7	2041.2	2057.3	2061.5	2012.5	1915.4
30°	2090.2	2097.8	2075.8	2039.5	2035.3	2075.8	2076.6	2105.5	2112.1	2063.2	1983.0
32.5°	2121.4	2129.8	2107.9	2054.7	2048.8	2105.5	2107.9	2145.9	2156.9	2117.2	2053.9
35°	2194.9	2205.1	2179.8	2096.9	2075.8	2133.2	2140.9	2185.6	2207.5	2174.6	2127.4
37.5°	2378.2	2348.6	2314.0	2182.2	2137.5	2177.2	2189.8	2242.2	2281.0	2243.1	2215.2
40°	2833.4	2740.4	2632.4	2327.5	2245.6	2270.9	2281.0	2333.4	2386.6	2349.5	2336.0
42.5°	3516.6	3406.8	3232.8	2661.9	2408.5	2421.3	2428.8	2474.5	2549.6	2520.1	2523.4
45°	4125.5	4085.9	3908.4	3232.8	2713.5	2651.0	2660.3	2683.9	2794.6	2783.6	2805.5
47.5°	4593.3	4570.6	4433.7	3888.2	3228.6	2932.2	2958.4	2969.3	3129.0	3167.9	3226.9
50°	4953.1	4944.7	4822.2	4470.9	3901.7	3346.8	3356.2	3332.5	3571.5	3667.8	3780.1
52.5°	5292.7	5321.4	5231.0	5012.2	4620.4	3889.9	3888.2	3776.7	4099.3	4244.6	4436.3
55°	5599.2	5609.3	5618.6	5564.6	5343.3	4508.1	4492.1	4309.6	4711.6	4862.0	5069.6
57.5°	5887.2	5891.4	5974.2	6084.8	6095.8	5171.8	5142.3	4923.6	5380.4	5487.7	5615.3
60°	6080.6	6100.0	6274.8	6582.2	6716.5	5856.7	5840.8	5617.8	6061.1	6110.9	6087.4
62.5°	5801.9	5920.1	6360.9	6970.7	7302.6	6616.0	6608.4	6399.0	6777.3	6736.8	6534.1
65°	4696.4	4896.5	5671.8	7233.3	7877.7	7463.9	7474.9	7252.0	7512.9	7381.1	6897.2
67.5°	3285.2	3496.4	4413.4	7254.4	8520.4	8459.6	8523.0	8173.4	8294.1	7998.5	6983.4
70°	2271.8	2380.8	2977.8	6800.2	9021.2	9831.1	9829.4	9304.9	9071.0	8279.7	6544.2
72.5°	1527.8	1584.3	1934.0	5394.8	8653.0	10646.1	10597.1	10169.7	9332.8	7743.5	5346.7
75°	644.4	685.7	895.2	3031.8	6845.8	9740.0	9607.3	8987.4	8292.4	6097.5	3335.9
77.5°	204.4	222.1	353.0	1085.2	3770.8	7321.2	7181.0	5612.7	5557.9	3058.9	1219.5
80°	97.2	113.2	198.4	435.7	1483.8	3981.9	3962.5	2546.2	2390.8	825.9	244.9
82.5°	42.2	49.8	109.8	233.1	663.8	1420.4	1449.2	866.4	717.0	313.3	75.1
85°	13.5	17.7	50.6	107.2	280.3	353.0	348.8	206.0	288.8	170.6	26.1
87.5°	0.0	0.0	16.9	24.5	28.7	20.3	22.8	17.7	80.3	47.3	9.3
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°	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5	1355.5
2.5°	1362.2	1348.7	1325.0	1303.1	1283.7	1264.2	1252.4	1235.5	1233.9	1233.9	1238.1
5°	1371.6	1349.5	1307.3	1262.6	1211.0	1162.0	1113.0	1065.8	1050.6	1039.7	1044.7
7.5°	1398.5	1363.9	1297.2	1211.9	1114.0	1006.7	931.5	850.4	819.2	802.3	804.8
10°	1437.4	1390.1	1288.7	1139.3	980.5	834.4	727.1	639.3	605.6	591.1	591.1
12.5°	1480.4	1422.2	1273.6	1048.9	834.4	659.6	554.8	514.3	509.2	509.2	509.2
15°	1532.0	1461.0	1247.3	942.5	681.5	521.9	484.7	486.5	491.5	494.9	494.9
17.5°	1585.2	1502.4	1206.0	823.4	546.4	469.6	470.4	472.9	477.1	480.5	480.5
20°	1642.6	1543.8	1151.1	696.7	468.7	454.4	456.8	459.4	462.8	464.5	465.4
22.5°	1704.3	1582.6	1086.1	572.6	442.5	441.7	442.5	445.1	449.3	449.3	451.0
25°	1770.2	1625.8	1011.8	482.3	429.1	429.1	430.7	432.4	435.7	435.7	436.6
27.5°	1837.7	1665.4	933.2	434.9	417.2	416.4	416.4	418.9	420.6	421.4	422.3
30°	1912.0	1711.9	854.6	424.8	408.0	403.6	401.2	402.8	404.6	405.4	407.0
32.5°	1988.0	1756.6	784.5	429.1	398.6	391.0	382.5	380.9	380.9	384.3	386.8
35°	2072.4	1805.6	730.5	443.4	393.6	372.5	359.0	351.4	352.2	357.2	359.8
37.5°	2173.8	1864.7	690.8	456.0	390.2	351.4	329.3	320.1	314.2	320.1	318.4
40°	2306.4	1951.7	662.2	466.2	385.9	326.9	297.2	282.1	271.1	274.5	272.8
42.5°	2501.5	2088.5	651.1	467.0	376.7	298.1	264.3	244.1	228.1	228.9	225.5
45°	2775.1	2304.7	707.8	456.0	356.4	266.9	229.7	202.6	192.6	190.0	186.7
47.5°	3150.0	2619.7	838.7	433.3	326.9	236.5	196.0	173.1	165.5	161.3	158.8
50°	3652.6	3024.3	983.9	408.0	297.2	207.8	168.1	153.8	148.6	144.4	143.6
52.5°	4235.3	3434.7	1102.9	382.5	267.7	182.4	150.4	141.9	137.7	134.3	133.5
55°	4769.8	3717.6	1096.2	355.6	239.0	162.2	137.7	132.6	127.5	124.1	122.5
57.5°	5102.7	3757.3	903.6	326.0	206.0	146.1	125.9	122.5	116.5	112.3	111.5
60°	5255.5	3530.9	633.3	287.1	173.1	130.9	113.2	111.5	103.8	98.0	96.2
62.5°	5283.4	3110.4	422.3	239.0	144.4	116.5	100.4	98.0	87.8	77.7	72.7
65°	5170.2	2509.1	292.2	186.7	123.3	101.4	86.1	81.1	70.1	60.0	56.6
67.5°	4812.1	1761.7	203.6	134.3	104.8	80.3	68.4	66.7	58.3	49.8	47.3
70°	4155.9	1004.1	136.0	100.4	82.7	54.9	54.0	55.8	47.3	40.5	37.2
72.5°	3186.4	459.4	84.5	73.5	56.6	37.2	43.0	43.9	36.3	30.4	27.1
75°	1875.6	196.8	53.2	47.3	28.7	24.5	31.3	32.1	24.5	19.5	16.9
77.5°	638.5	74.3	33.8	27.9	14.3	13.5	20.3	20.3	13.5	7.6	5.9
80°	145.2	27.9	16.9	11.0	6.8	5.9	6.8	5.9	3.4	0.8	0.0
82.5°	41.4	11.0	6.8	4.2	2.6	2.6	0.8	0.0	0.0	0.0	0.0
85°	11.8	5.0	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	0.8	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)