

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: LUMARK

Report Number: P962626

Luminaire Tested: **NAV-SB2C-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962626
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: LUMARK
Catalog Number: NAV-SB2C-830-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA 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: 10625.1 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

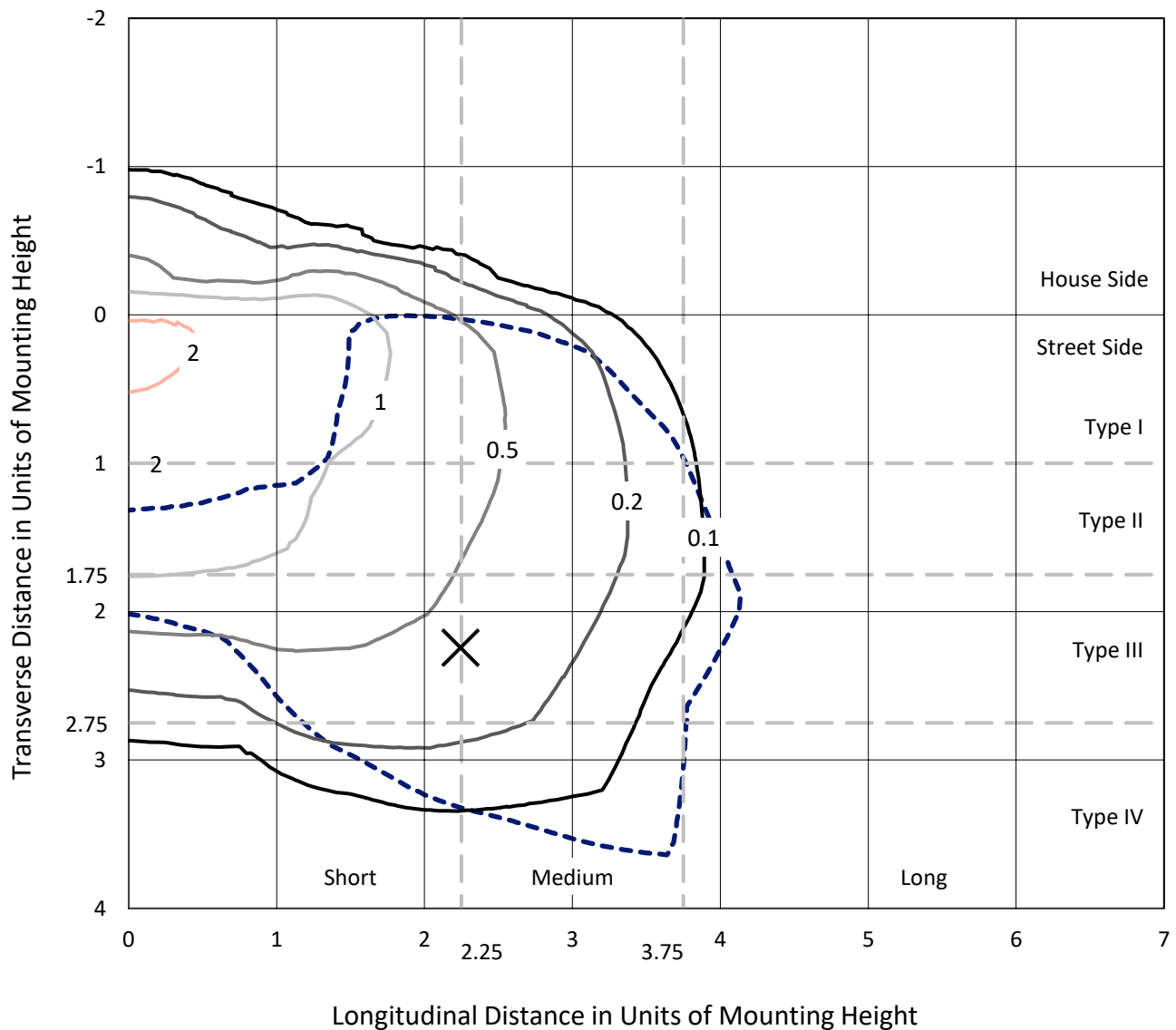
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P962626
CATALOG NUMBER: NAV-SB2C-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

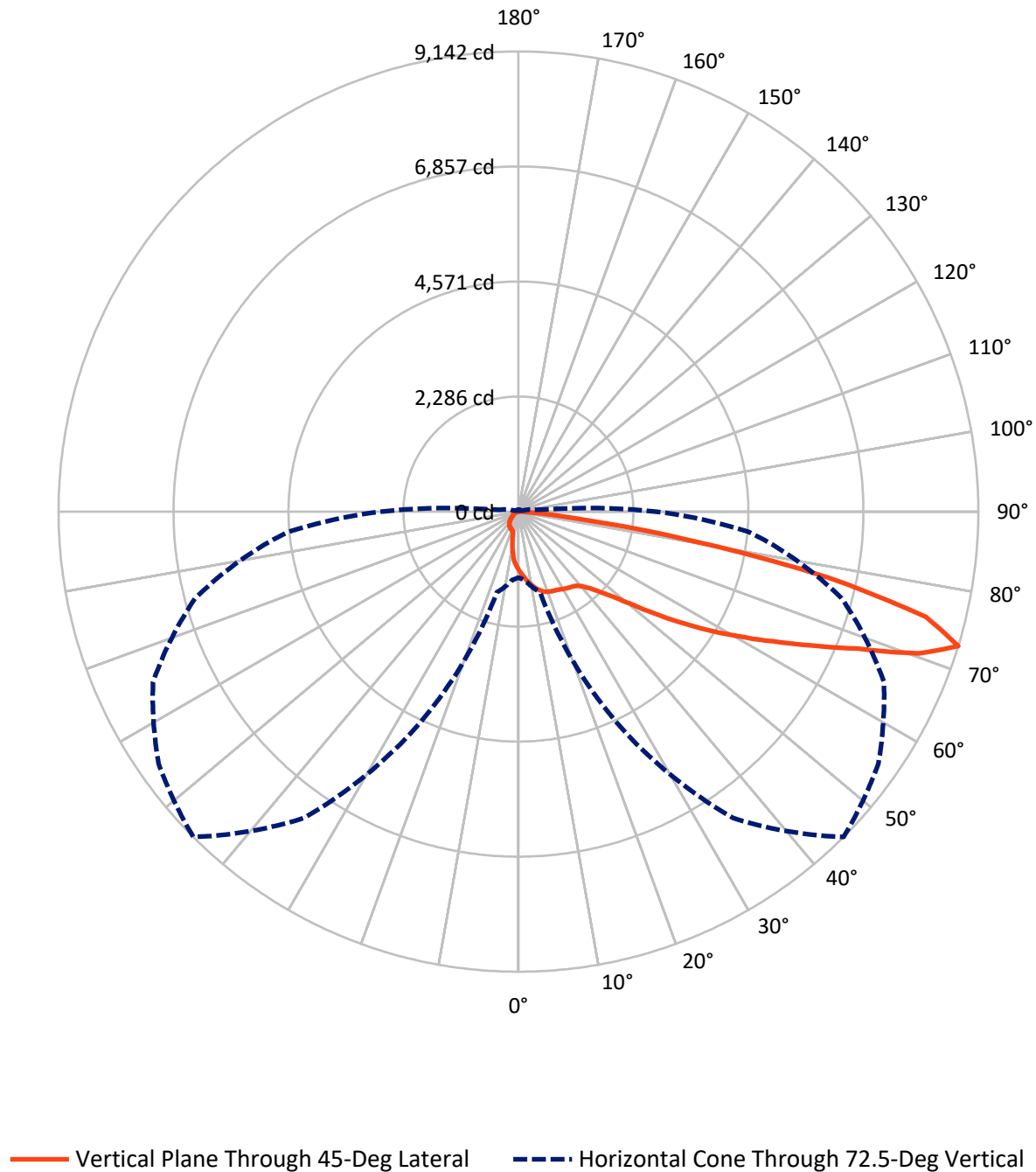
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type IV - Short - N/A

REPORT NUMBER: P962626
CATALOG NUMBER: NAV-SB2C-830-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P962626

CATALOG NUMBER: NAV-SB2C-830-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1116.4	0.0	1116.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	9508.7	0.0	9508.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	10625.1	0.0	10625.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	1.0
10°-20°	320.5	3.0
20°-30°	526.4	5.0
30°-40°	746.5	7.0
40°-50°	1233.9	11.6
50°-60°	2216.5	20.9
60°-70°	3077.8	29.0
70°-80°	2232.5	21.0
80°-90°	161.4	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°	10625.1	100.0
0°-180°	10625.1	100.0

Coefficient of Utilization



REPORT NUMBER: P962626

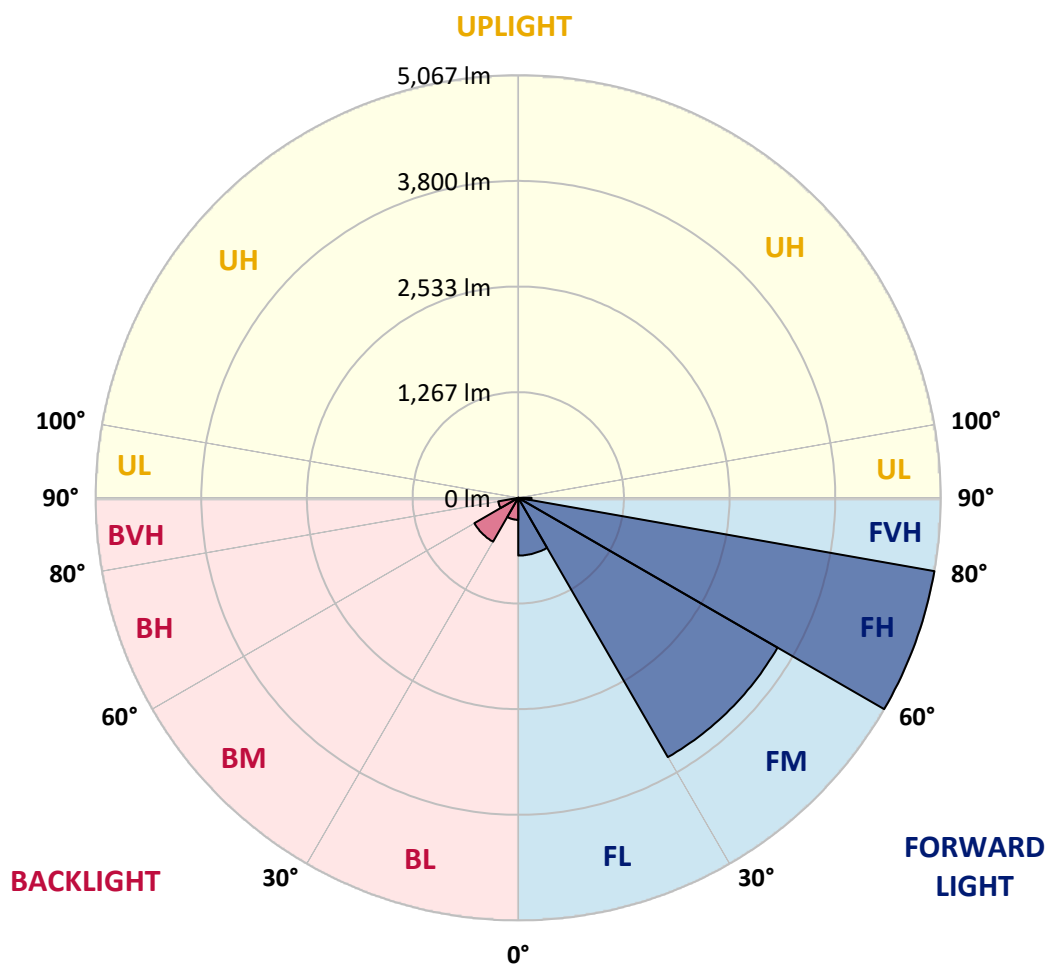
CATALOG NUMBER: NAV-SB2C-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	692.1	6.5			
FM	(30°-60°)	3589.7	33.8			
FH	(60°-80°)	5066.8	47.7			G3/7500
FVH	(80°-90°)	160.0	1.5			G2/225
BL	(0°-30°)	264.4	2.5	B1/500		
BM	(30°-60°)	607.2	5.7	B1/1000		
BH	(60°-80°)	243.5	2.3	B1/500		G1/500
BVH	(80°-90°)	1.4	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



REPORT NUMBER: P962626

CATALOG NUMBER: NAV-SB2C-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0
2.5°	1271.3	1273.6	1272.0	1263.4	1248.9	1240.9	1236.6	1222.0	1212.6	1195.9	1178.5
5°	1388.2	1396.8	1391.7	1374.3	1346.7	1327.2	1321.4	1291.6	1264.8	1233.6	1197.4
7.5°	1512.1	1516.5	1507.1	1484.6	1447.6	1414.2	1409.2	1367.8	1325.0	1277.1	1227.8
10°	1619.5	1624.5	1610.1	1577.4	1535.3	1494.0	1486.8	1441.0	1390.3	1331.6	1268.4
12.5°	1709.4	1714.4	1695.7	1656.4	1610.1	1567.2	1559.9	1512.1	1456.3	1391.0	1312.7
15°	1777.6	1787.0	1761.6	1719.5	1669.5	1626.7	1623.1	1575.9	1521.5	1449.0	1365.6
17.5°	1817.4	1826.9	1803.0	1752.1	1709.4	1673.1	1668.8	1629.6	1578.8	1509.2	1417.2
20°	1824.0	1832.7	1807.3	1763.1	1727.5	1698.5	1696.4	1668.1	1631.1	1564.4	1472.9
22.5°	1804.4	1815.3	1792.1	1756.5	1731.8	1716.7	1713.7	1697.8	1676.8	1620.2	1525.2
25°	1784.1	1792.8	1775.4	1744.2	1731.1	1729.7	1731.8	1729.0	1724.7	1676.8	1586.1
27.5°	1782.7	1792.1	1772.5	1742.7	1735.5	1750.7	1752.9	1766.7	1770.3	1728.3	1644.8
30°	1795.0	1801.5	1782.7	1751.4	1747.8	1782.7	1783.4	1808.0	1813.8	1771.7	1702.8
32.5°	1821.8	1829.0	1810.2	1764.5	1759.4	1808.0	1810.2	1842.8	1852.3	1818.1	1763.8
35°	1884.9	1893.6	1871.9	1800.7	1782.7	1832.0	1838.4	1876.9	1895.7	1867.4	1826.9
37.5°	2042.3	2016.9	1987.2	1874.0	1835.6	1869.7	1880.6	1925.5	1958.9	1926.3	1902.3
40°	2433.1	2353.4	2260.5	1998.7	1928.4	1950.2	1958.9	2003.9	2049.5	2017.6	2006.0
42.5°	3019.9	2925.7	2776.2	2286.0	2068.3	2079.2	2085.8	2124.9	2189.5	2164.1	2167.1
45°	3542.8	3508.7	3356.4	2776.2	2330.2	2276.5	2284.5	2304.8	2399.8	2390.4	2409.3
47.5°	3944.6	3925.0	3807.5	3339.0	2772.6	2518.0	2540.5	2549.9	2687.0	2720.4	2771.1
50°	4253.5	4246.3	4141.1	3839.4	3350.6	2874.1	2882.1	2861.8	3067.0	3149.7	3246.2
52.5°	4545.1	4569.8	4492.2	4304.3	3967.8	3340.5	3339.0	3243.3	3520.3	3645.0	3809.7
55°	4808.4	4817.0	4825.0	4778.5	4588.6	3871.3	3857.6	3700.9	4046.1	4175.2	4353.6
57.5°	5055.6	5059.3	5130.3	5225.3	5234.8	4441.3	4416.0	4228.1	4620.5	4712.6	4822.1
60°	5221.8	5238.4	5388.5	5652.5	5767.8	5029.6	5015.7	4824.3	5205.1	5247.8	5227.5
62.5°	4982.4	5083.9	5462.5	5986.1	6271.2	5681.5	5675.0	5495.1	5820.1	5785.2	5611.2
65°	4033.1	4205.0	4870.7	6211.7	6765.0	6409.6	6419.1	6227.6	6451.8	6338.6	5923.1
67.5°	2821.2	3002.5	3790.1	6229.8	7317.0	7264.7	7319.1	7018.9	7122.5	6868.7	5997.0
70°	1950.9	2044.5	2557.2	5839.6	7746.9	8442.5	8441.1	7990.7	7789.8	7110.2	5619.9
72.5°	1312.0	1360.6	1660.8	4632.8	7430.8	9142.4	9100.3	8733.3	8014.6	6649.7	4591.5
75°	553.4	588.9	768.7	2603.6	5878.8	8364.2	8250.3	7717.9	7121.1	5236.2	2864.7
77.5°	175.5	190.8	303.2	931.9	3238.2	6287.0	6166.7	4820.0	4772.8	2626.8	1047.2
80°	83.4	97.2	170.5	374.2	1274.3	3419.5	3402.8	2186.6	2053.2	709.3	210.3
82.5°	36.3	42.7	94.3	200.2	570.0	1219.9	1244.6	744.0	615.7	269.1	64.6
85°	11.6	15.3	43.6	92.1	240.8	303.2	299.5	176.9	248.0	146.5	22.4
87.5°	0.0	0.0	14.6	21.0	24.7	17.4	19.6	15.3	68.9	40.6	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P962626

CATALOG NUMBER: NAV-SB2C-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0
2.5°	1169.8	1158.2	1137.9	1119.0	1102.4	1085.7	1075.5	1061.0	1059.5	1059.5	1063.2
5°	1177.8	1159.0	1122.7	1084.2	1040.0	997.9	955.9	915.2	902.2	892.8	897.1
7.5°	1201.0	1171.3	1114.0	1040.7	956.6	864.5	799.9	730.3	703.5	689.0	691.2
10°	1234.3	1193.7	1106.7	978.4	842.0	716.6	624.4	549.0	520.0	507.7	507.7
12.5°	1271.3	1221.3	1093.7	900.8	716.6	566.4	476.5	441.7	437.4	437.4	437.4
15°	1315.6	1254.7	1071.2	809.3	585.3	448.2	416.3	417.7	422.1	425.0	425.0
17.5°	1361.3	1290.2	1035.7	707.1	469.2	403.2	404.0	406.1	409.8	412.7	412.7
20°	1410.6	1325.7	988.5	598.3	402.5	390.2	392.4	394.5	397.4	398.9	399.6
22.5°	1463.5	1359.0	932.6	491.7	380.1	379.2	380.1	382.2	385.8	385.8	387.2
25°	1520.1	1396.0	868.8	414.1	368.4	368.4	369.9	371.4	374.2	374.2	374.9
27.5°	1578.1	1430.2	801.3	373.5	358.2	357.5	357.5	359.7	361.2	361.9	362.6
30°	1641.9	1470.1	733.9	364.8	350.2	346.7	344.5	345.9	347.4	348.1	349.5
32.5°	1707.2	1508.5	673.7	368.4	342.3	335.8	328.5	327.1	327.1	329.9	332.2
35°	1779.7	1550.5	627.3	380.8	337.9	319.8	308.2	301.7	302.4	306.8	308.9
37.5°	1866.7	1601.4	593.3	391.7	335.1	301.7	282.8	274.9	269.8	274.9	273.4
40°	1980.6	1676.0	568.6	400.4	331.5	280.6	255.3	242.2	232.8	235.7	234.2
42.5°	2148.2	1793.5	559.1	401.1	323.5	256.0	227.0	209.6	195.8	196.5	193.6
45°	2383.1	1979.2	607.7	391.7	306.1	229.2	197.3	174.0	165.3	163.2	160.3
47.5°	2705.2	2249.7	720.2	372.1	280.6	203.1	168.3	148.6	142.2	138.5	136.3
50°	3136.7	2597.0	844.9	350.2	255.3	178.5	144.3	132.0	127.6	124.0	123.3
52.5°	3637.1	2949.5	947.2	328.5	229.9	156.6	129.0	121.9	118.2	115.3	114.6
55°	4096.1	3192.5	941.4	305.3	205.2	139.2	118.2	113.9	109.5	106.6	105.2
57.5°	4381.9	3226.6	776.0	279.9	176.9	125.5	108.0	105.2	100.0	96.5	95.7
60°	4513.2	3032.3	544.0	246.6	148.6	112.4	97.2	95.7	89.2	84.2	82.7
62.5°	4537.1	2671.0	362.6	205.2	124.0	100.0	86.3	84.2	75.4	66.7	62.3
65°	4439.9	2154.7	250.9	160.3	105.9	87.0	74.0	69.6	60.2	51.5	48.6
67.5°	4132.4	1512.8	174.8	115.3	89.9	68.9	58.7	57.3	50.0	42.7	40.6
70°	3568.9	862.3	116.7	86.3	71.0	47.2	46.4	47.9	40.6	34.8	31.9
72.5°	2736.3	394.5	72.6	63.1	48.6	31.9	37.0	37.7	31.2	26.1	23.2
75°	1610.8	169.0	45.7	40.6	24.7	21.0	26.9	27.6	21.0	16.7	14.6
77.5°	548.3	63.9	29.0	23.9	12.3	11.6	17.4	17.4	11.6	6.6	5.1
80°	124.7	23.9	14.6	9.4	5.8	5.1	5.8	5.1	2.9	0.7	0.0
82.5°	35.6	9.4	5.8	3.6	2.2	2.2	0.7	0.0	0.0	0.0	0.0
85°	10.1	4.3	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	0.7	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)