

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: P962502

Luminaire Tested: **NAV-SB2C-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962502
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-740-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 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: 12510.1 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

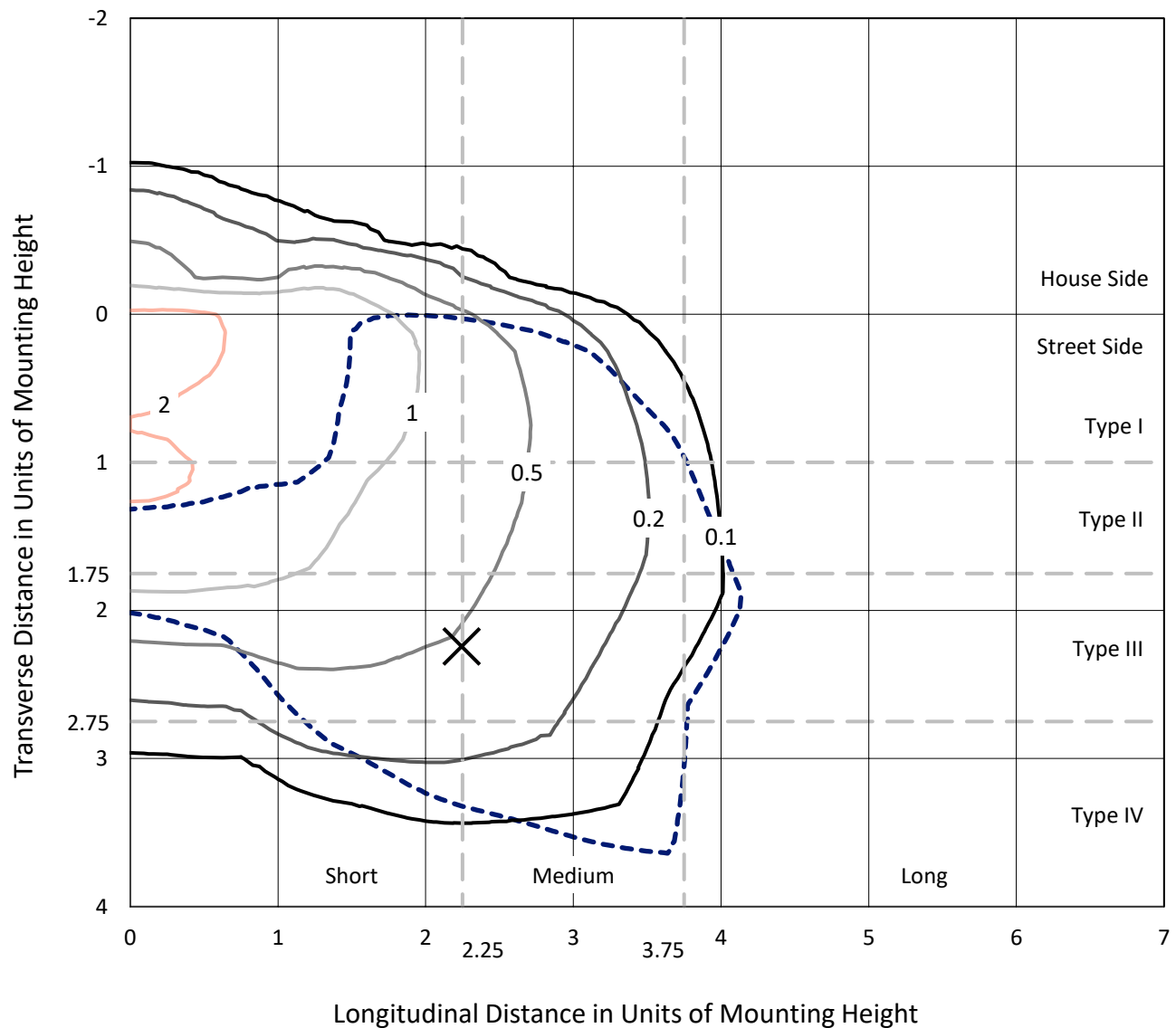
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P962502
CATALOG NUMBER: NAV-SB2C-740-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

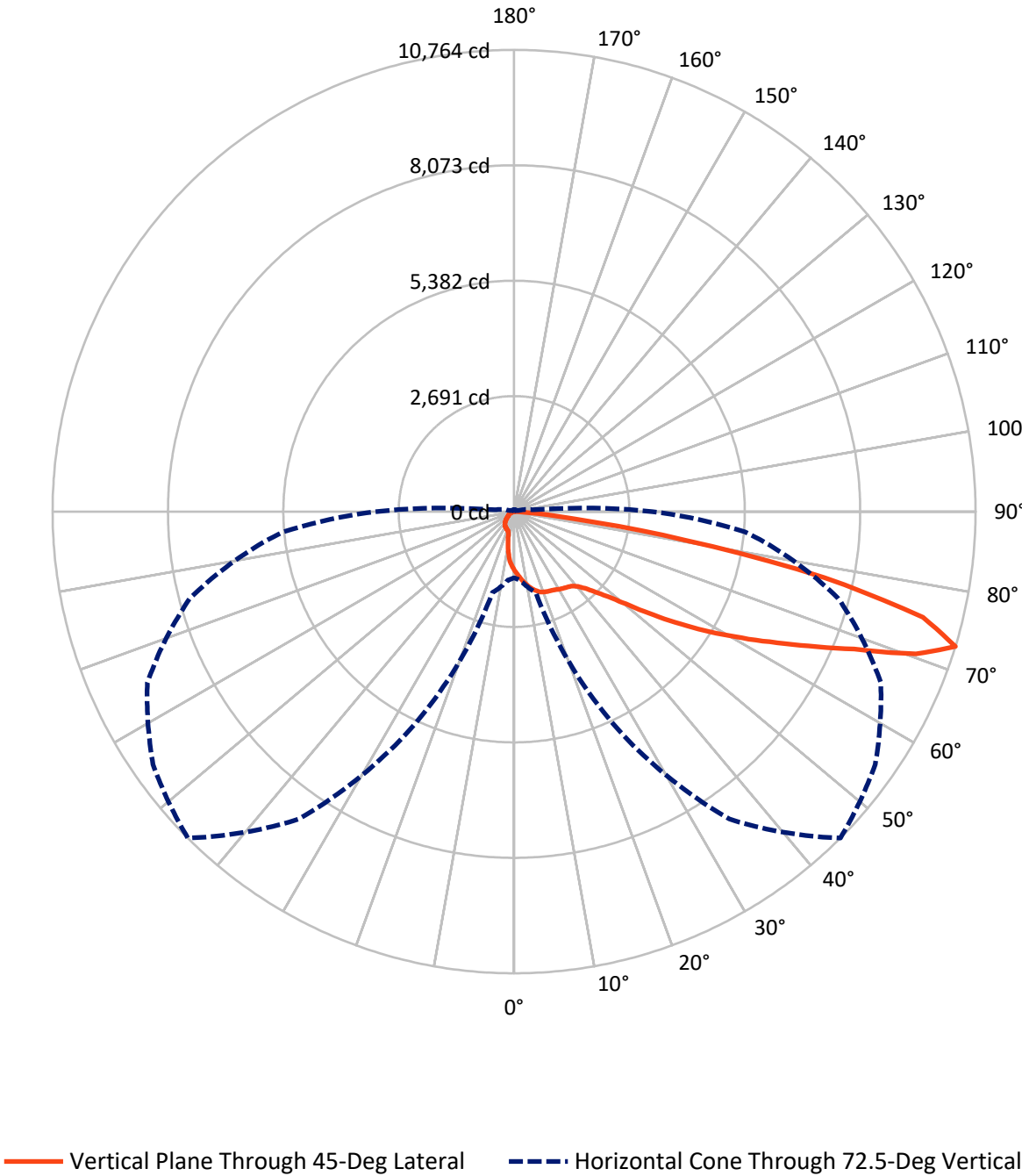
× Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P962502
CATALOG NUMBER: NAV-SB2C-740-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1314.5	0.0	1314.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11195.6	0.0	11195.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	12510.1	0.0	12510.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	1.0
10°-20°	377.4	3.0
20°-30°	619.7	5.0
30°-40°	878.9	7.0
40°-50°	1452.8	11.6
50°-60°	2609.8	20.9
60°-70°	3623.8	29.0
70°-80°	2628.6	21.0
80°-90°	190.0	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°	12510.1	100.0
0°-180°	12510.1	100.0

Coefficient of Utilization



REPORT NUMBER: P962502

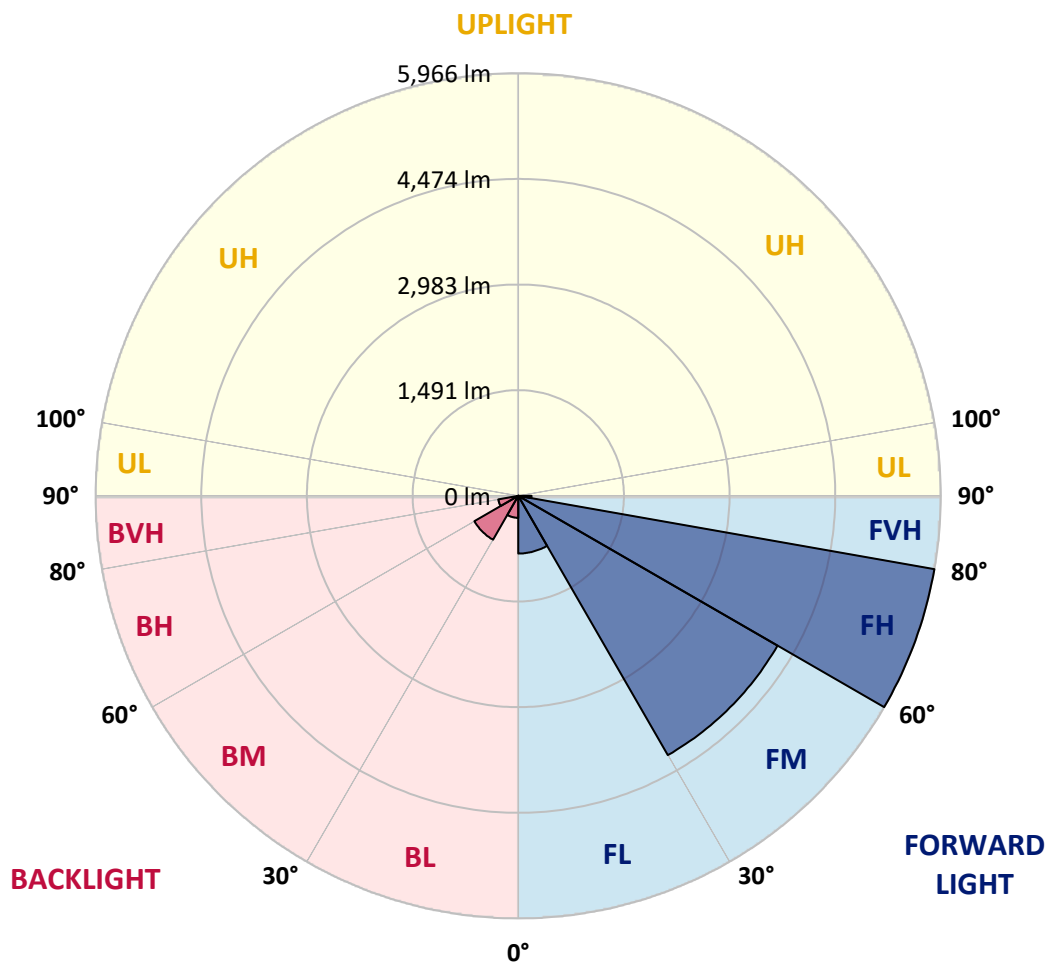
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	814.9	6.5			
FM	(30°-60°)	4226.6	33.8			
FH	(60°-80°)	5965.7	47.7			G3/7500
FVH	(80°-90°)	188.4	1.5			G2/225
BL	(0°-30°)	311.3	2.5	B1/500		
BM	(30°-60°)	714.9	5.7	B1/1000		
BH	(60°-80°)	286.6	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



REPORT NUMBER: P962502

CATALOG NUMBER: NAV-SB2C-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5
2.5°	1496.9	1499.5	1497.7	1487.5	1470.5	1461.0	1455.9	1438.8	1427.7	1408.0	1387.5
5°	1634.4	1644.6	1638.7	1618.2	1585.7	1562.6	1555.8	1520.8	1489.2	1452.5	1409.8
7.5°	1780.4	1785.6	1774.4	1747.9	1704.4	1665.1	1659.2	1610.5	1560.0	1503.7	1445.7
10°	1906.8	1912.8	1895.6	1857.2	1807.7	1759.0	1750.5	1696.7	1636.9	1567.7	1493.4
12.5°	2012.7	2018.6	1996.4	1950.3	1895.6	1845.3	1836.7	1780.4	1714.6	1637.7	1545.6
15°	2092.9	2104.0	2074.1	2024.6	1965.6	1915.3	1911.0	1855.6	1791.5	1706.1	1607.9
17.5°	2139.9	2151.0	2122.8	2063.0	2012.7	1969.9	1964.8	1918.7	1858.9	1776.9	1668.5
20°	2147.6	2157.8	2127.9	2075.8	2034.0	1999.9	1997.3	1964.0	1920.4	1841.8	1734.3
22.5°	2124.5	2137.3	2110.0	2068.1	2039.1	2021.2	2017.8	1999.0	1974.3	1907.6	1795.8
25°	2100.6	2110.9	2090.4	2053.6	2038.2	2036.6	2039.1	2035.6	2030.5	1974.3	1867.4
27.5°	2098.9	2110.0	2086.9	2051.9	2043.3	2061.3	2063.8	2080.1	2084.3	2034.8	1936.6
30°	2113.4	2121.1	2098.9	2062.2	2057.9	2098.9	2099.7	2128.8	2135.6	2086.1	2005.0
32.5°	2145.0	2153.5	2131.4	2077.6	2071.5	2128.8	2131.4	2169.7	2180.9	2140.7	2076.6
35°	2219.3	2229.6	2204.0	2120.2	2098.9	2156.9	2164.6	2209.9	2232.1	2198.8	2151.0
37.5°	2404.5	2374.7	2339.7	2206.5	2161.2	2201.4	2214.2	2267.1	2306.4	2267.9	2239.8
40°	2864.9	2770.9	2661.6	2353.4	2270.5	2296.1	2306.4	2359.3	2413.2	2375.5	2361.9
42.5°	3555.6	3444.6	3268.7	2691.4	2435.3	2448.1	2455.8	2501.9	2578.0	2548.0	2551.4
45°	4171.3	4131.2	3951.9	3268.7	2743.6	2680.4	2689.8	2713.7	2825.5	2814.4	2836.7
47.5°	4644.4	4621.3	4482.9	3931.4	3264.4	2964.7	2991.3	3002.3	3163.7	3203.0	3262.8
50°	5008.2	4999.5	4875.8	4520.6	3945.0	3384.0	3393.4	3369.5	3611.2	3708.4	3822.0
52.5°	5351.4	5380.4	5289.1	5067.9	4671.6	3933.0	3931.4	3818.6	4144.8	4291.7	4485.5
55°	5661.4	5671.6	5681.0	5626.3	5402.7	4558.1	4541.9	4357.5	4763.9	4915.9	5125.9
57.5°	5952.6	5956.8	6040.5	6152.4	6163.4	5229.2	5199.4	4978.2	5440.2	5548.6	5677.6
60°	6148.1	6167.7	6344.4	6655.3	6791.0	5921.8	5905.5	5680.1	6128.5	6178.8	6154.9
62.5°	5866.3	5985.8	6431.6	7048.1	7383.7	6689.5	6681.8	6470.0	6852.5	6811.5	6606.6
65°	4748.5	4951.0	5734.8	7313.7	7965.2	7546.8	7557.8	7332.4	7596.3	7463.1	6973.8
67.5°	3321.7	3535.1	4462.4	7335.0	8615.0	8553.5	8617.6	8264.1	8386.1	8087.2	7060.9
70°	2297.0	2407.1	3010.8	6875.6	9121.4	9940.2	9938.5	9408.3	9171.7	8371.7	6616.9
72.5°	1544.7	1601.9	1955.4	5454.7	8749.1	10764.2	10714.7	10282.7	9436.5	7829.5	5406.1
75°	651.5	693.4	905.2	3065.5	6921.7	9848.0	9713.9	9087.2	8384.5	6165.2	3372.9
77.5°	206.6	224.6	356.9	1097.3	3812.7	7402.4	7260.7	5675.0	5619.6	3092.8	1233.1
80°	98.2	114.4	200.7	440.6	1500.3	4026.1	4006.5	2574.5	2417.4	835.1	247.6
82.5°	42.7	50.4	111.0	235.6	671.2	1436.2	1465.3	876.1	725.0	316.8	76.0
85°	13.6	17.9	51.2	108.4	283.5	356.9	352.7	208.4	292.0	172.5	26.4
87.5°	0.0	0.0	17.1	24.8	29.0	20.5	23.1	17.9	81.1	47.9	9.4
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: P962502

CATALOG NUMBER: NAV-SB2C-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5
2.5°	1377.3	1363.7	1339.8	1317.5	1298.0	1278.3	1266.3	1249.3	1247.5	1247.5	1251.8
5°	1386.7	1364.6	1321.8	1276.5	1224.5	1175.0	1125.4	1077.6	1062.2	1051.1	1056.3
7.5°	1414.1	1379.0	1311.6	1225.4	1126.3	1017.8	941.9	859.9	828.3	811.2	813.7
10°	1453.3	1405.5	1303.1	1151.9	991.4	843.7	735.2	646.4	612.2	597.8	597.8
12.5°	1496.9	1438.0	1287.7	1060.6	843.7	666.9	561.0	520.0	514.9	514.9	514.9
15°	1549.0	1477.2	1261.3	952.9	689.1	527.7	490.2	491.9	496.9	500.4	500.4
17.5°	1602.8	1519.0	1219.3	832.5	552.5	474.8	475.6	478.2	482.5	485.8	485.8
20°	1660.8	1561.0	1163.9	704.5	474.0	459.4	462.0	464.5	467.9	469.7	470.5
22.5°	1723.1	1600.2	1098.1	578.9	447.4	446.6	447.4	450.0	454.3	454.3	456.0
25°	1789.8	1643.8	1023.0	487.6	433.8	433.8	435.5	437.2	440.6	440.6	441.5
27.5°	1858.1	1683.9	943.5	439.7	421.8	421.0	421.0	423.5	425.3	426.1	426.9
30°	1933.3	1730.8	864.2	429.5	412.5	408.2	405.6	407.3	409.0	409.9	411.5
32.5°	2010.1	1776.1	793.2	433.8	403.0	395.3	386.8	385.1	385.1	388.5	391.0
35°	2095.5	1825.6	738.6	448.3	397.9	376.6	363.0	355.3	356.1	361.2	363.8
37.5°	2197.9	1885.4	698.5	461.1	394.5	355.3	333.0	323.6	317.6	323.6	322.0
40°	2332.0	1973.3	669.4	471.4	390.2	330.5	300.5	285.2	274.1	277.5	275.8
42.5°	2529.3	2111.7	658.4	472.2	380.9	301.5	267.3	246.8	230.5	231.4	228.0
45°	2805.9	2330.3	715.6	461.1	360.4	269.9	232.3	204.9	194.6	192.1	188.7
47.5°	3185.1	2648.8	847.9	438.1	330.5	239.1	198.1	175.1	167.4	163.1	160.5
50°	3693.1	3057.8	994.8	412.5	300.5	210.0	169.9	155.4	150.3	146.1	145.1
52.5°	4282.3	3472.8	1115.2	386.8	270.7	184.4	152.0	143.5	139.2	135.8	134.9
55°	4822.8	3758.9	1108.3	359.5	241.7	164.0	139.2	134.1	128.9	125.6	123.8
57.5°	5159.2	3799.0	913.7	329.6	208.4	147.7	127.2	123.8	117.9	113.6	112.7
60°	5313.8	3570.2	640.4	290.3	175.1	132.3	114.4	112.7	105.1	99.0	97.4
62.5°	5342.0	3144.9	426.9	241.7	146.1	117.9	101.6	99.0	88.8	78.5	73.4
65°	5227.6	2537.0	295.4	188.7	124.6	102.5	87.1	82.0	70.8	60.6	57.2
67.5°	4865.6	1781.2	205.8	135.8	105.9	81.1	69.2	67.4	58.9	50.4	47.9
70°	4202.1	1015.3	137.5	101.6	83.6	55.5	54.6	56.4	47.9	41.0	37.6
72.5°	3221.8	464.5	85.4	74.3	57.2	37.6	43.6	44.4	36.7	30.7	27.4
75°	1896.6	199.0	53.8	47.9	29.0	24.8	31.6	32.5	24.8	19.7	17.1
77.5°	645.5	75.1	34.1	28.2	14.6	13.6	20.5	20.5	13.6	7.7	5.9
80°	146.9	28.2	17.1	11.1	6.9	5.9	6.9	5.9	3.4	0.8	0.0
82.5°	41.8	11.1	6.9	4.3	2.6	2.6	0.8	0.0	0.0	0.0	0.0
85°	12.0	5.1	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	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)