

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: P963956

Luminaire Tested: **NAV-SB3B-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14315.2 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

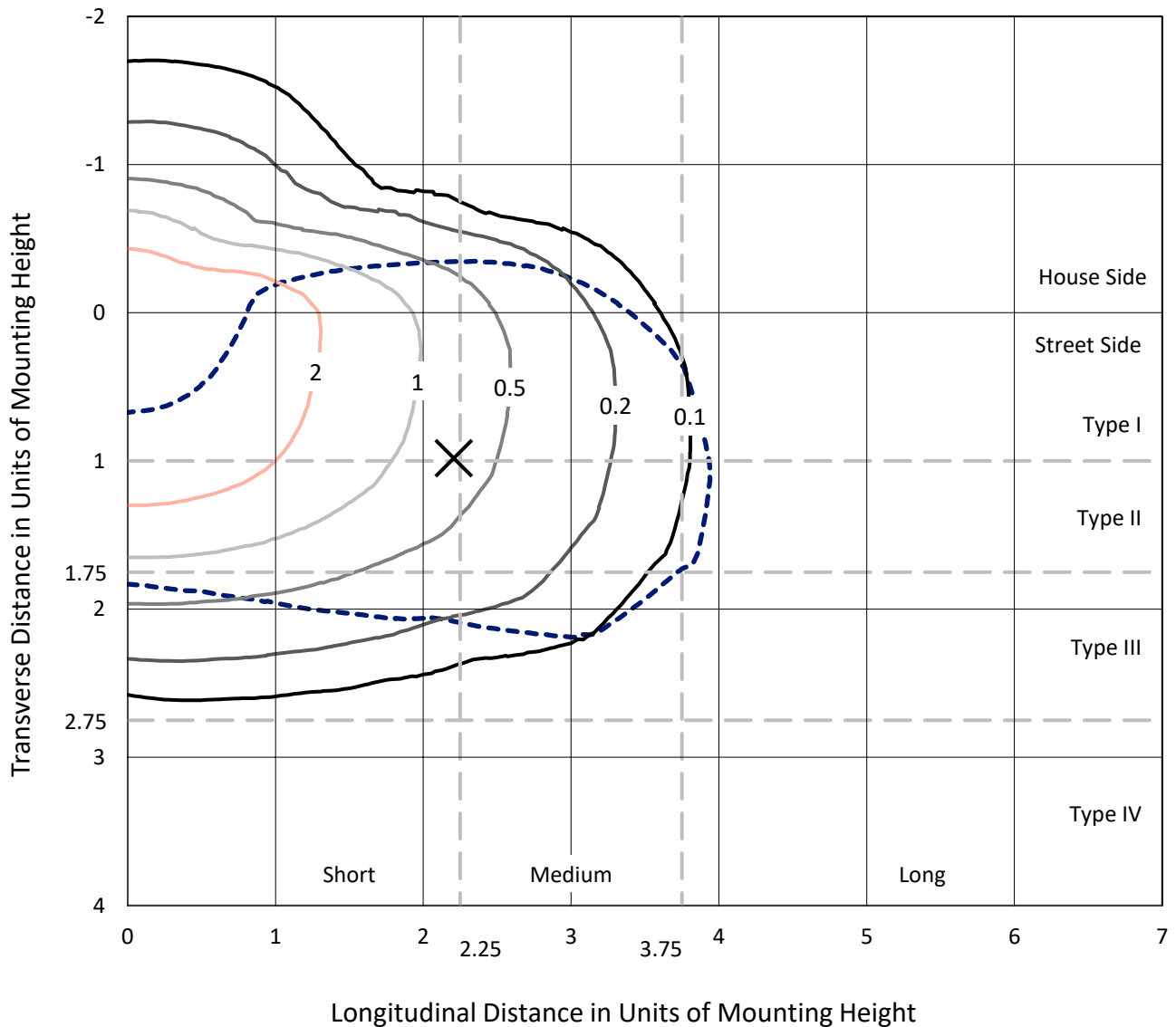
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

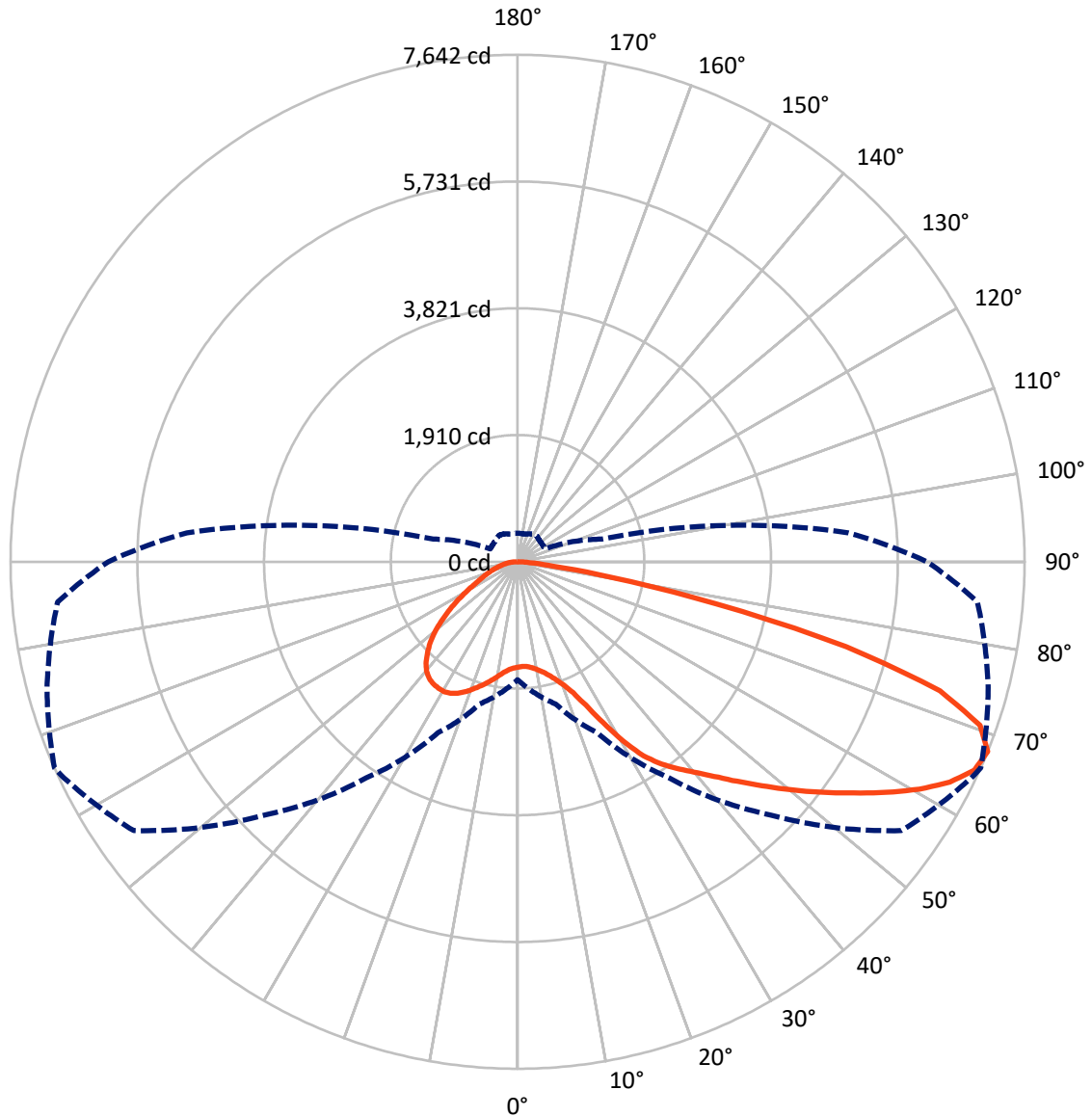
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3559.4	0.0	3559.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	10755.7	0.0	10755.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	14315.2	0.0	14315.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	1.1
10°-20°	520.1	3.6
20°-30°	1002.4	7.0
30°-40°	1757.7	12.3
40°-50°	2613.0	18.3
50°-60°	3312.3	23.1
60°-70°	3241.0	22.6
70°-80°	1546.0	10.8
80°-90°	165.2	1.2
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°	14315.2	100.0
0°-180°	14315.2	100.0

Coefficient of Utilization



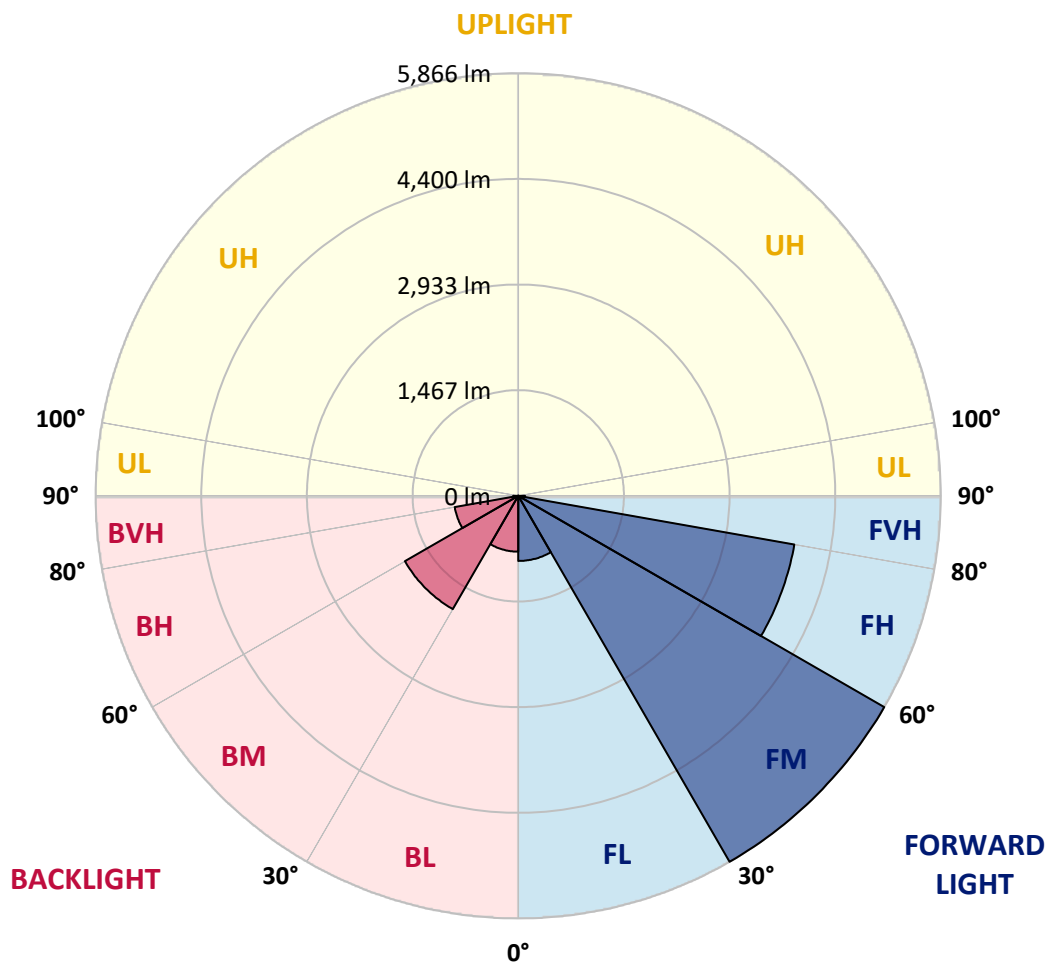
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 CATALOG NUMBER: NAV-SB3B-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	904.6	6.3			
FM (30°-60°)	5866.2	41.0			
FH (60°-80°)	3891.2	27.2			G2/5000
FVH (80°-90°)	93.7	0.7			G1/100
BL (0°-30°)	775.4	5.4	B2/1000		
BM (30°-60°)	1816.8	12.7	B2/2500		
BH (60°-80°)	895.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	71.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P963956
 CATALOG NUMBER: NAV-SB3B-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7
2.5°	1571.2	1580.2	1578.0	1574.2	1573.5	1574.9	1577.2	1579.4	1578.7	1582.5	1588.4
5°	1566.7	1575.7	1574.9	1574.9	1578.0	1583.9	1587.7	1591.5	1587.7	1592.2	1600.5
7.5°	1569.7	1576.4	1579.4	1582.5	1590.0	1601.3	1610.3	1618.6	1614.1	1619.3	1629.9
10°	1608.0	1613.4	1616.3	1616.3	1621.6	1634.4	1643.4	1658.4	1654.7	1663.0	1676.5
12.5°	1678.0	1683.3	1683.3	1680.3	1684.0	1692.3	1695.2	1711.9	1705.1	1718.6	1732.1
15°	1763.7	1774.3	1766.0	1760.7	1762.3	1770.5	1769.8	1782.6	1775.8	1787.1	1799.1
17.5°	1858.5	1872.1	1858.5	1857.7	1854.7	1863.8	1864.5	1875.9	1863.8	1872.1	1880.4
20°	1970.6	1989.4	1978.0	1981.8	1975.1	1978.9	1982.6	1999.2	1980.3	1986.3	1984.1
22.5°	2128.5	2151.1	2139.1	2153.3	2148.8	2145.8	2145.0	2174.4	2145.0	2147.3	2125.5
25°	2358.6	2385.8	2364.7	2384.3	2384.3	2394.0	2405.3	2442.9	2394.0	2379.7	2323.4
27.5°	2698.6	2725.7	2684.4	2696.4	2692.6	2716.7	2704.7	2797.9	2745.3	2722.0	2608.4
30°	3107.8	3155.9	3077.7	3074.7	3070.9	3109.3	3126.6	3188.3	3134.9	3111.6	2974.7
32.5°	3550.1	3600.4	3507.1	3480.1	3465.8	3489.1	3474.9	3524.5	3487.6	3451.5	3282.3
35°	4017.9	4067.5	3978.7	3926.1	3869.0	3820.1	3768.9	3781.7	3747.1	3692.2	3517.0
37.5°	4460.1	4551.1	4457.1	4400.7	4295.4	4199.8	4057.0	3997.6	3965.2	3914.8	3738.1
40°	4910.7	4962.5	4891.1	4842.9	4728.6	4579.0	4350.3	4224.7	4181.1	4132.2	3982.5
42.5°	5242.4	5292.0	5253.6	5220.5	5131.0	4957.3	4661.7	4504.5	4441.3	4386.4	4259.3
45°	5505.6	5542.4	5518.4	5530.4	5492.1	5323.5	4984.4	4804.6	4739.2	4672.3	4572.2
47.5°	5611.6	5650.7	5689.1	5760.5	5826.0	5701.9	5331.0	5129.5	5060.3	4991.9	4893.3
50°	5599.6	5639.4	5750.8	5902.7	6105.7	6064.4	5696.6	5475.4	5411.6	5333.3	5242.4
52.5°	5503.3	5548.4	5691.3	5944.1	6267.5	6335.9	6068.9	5832.8	5772.6	5679.3	5588.3
55°	5250.6	5277.6	5492.1	5850.1	6305.8	6525.5	6433.7	6213.3	6153.2	6023.0	5923.8
57.5°	4782.0	4821.1	5133.3	5596.6	6209.6	6654.1	6754.1	6613.4	6555.5	6368.2	6264.5
60°	4170.5	4232.9	4590.3	5170.9	5964.4	6653.3	7045.1	7006.8	6958.7	6708.2	6599.9
62.5°	3478.5	3550.8	3894.5	4569.1	5535.6	6464.6	7227.2	7336.2	7311.4	7021.9	6883.5
65°	2671.6	2721.2	3063.4	3790.8	4868.5	6059.1	7248.3	7561.1	7565.6	7260.3	7031.6
67.5°	1778.8	1921.7	2218.8	2844.6	3975.0	5396.5	7063.2	7598.0	7641.6	7342.3	6957.2
70°	868.0	1056.0	1347.1	1848.7	2844.6	4380.3	6579.6	7295.6	7392.6	7103.0	6513.5
72.5°	360.3	421.2	579.8	912.4	1632.8	2955.9	5607.9	6475.8	6655.5	6293.8	5476.3
75°	242.9	263.2	331.7	467.8	743.8	1457.7	4044.1	4828.7	5118.2	4753.4	3885.5
77.5°	187.3	200.1	241.4	327.2	442.3	551.3	2164.6	2910.0	3059.6	2832.5	2021.7
80°	147.4	157.2	180.5	238.4	313.6	294.8	737.8	1318.5	1405.0	1178.5	649.8
82.5°	127.8	131.6	129.4	161.7	208.4	172.2	242.2	486.7	537.0	389.6	212.1
85°	92.6	103.0	107.5	100.0	110.6	87.2	99.3	172.2	189.5	169.2	119.6
87.5°	37.6	55.7	68.5	64.7	40.6	24.8	30.9	50.4	57.9	63.1	39.2
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: P963956
 CATALOG NUMBER: NAV-SB3B-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7	1587.7
2.5°	1589.3	1594.5	1598.3	1602.8	1605.8	1610.3	1619.3	1624.6	1625.3	1629.1	1628.3
5°	1603.5	1611.1	1619.3	1631.4	1644.9	1656.2	1673.5	1685.5	1690.0	1693.8	1693.0
7.5°	1634.4	1644.9	1660.0	1681.0	1700.6	1715.6	1736.7	1750.9	1765.3	1770.5	1771.3
10°	1680.3	1695.2	1717.1	1745.7	1766.8	1786.3	1808.1	1820.2	1834.4	1840.5	1843.5
12.5°	1737.4	1753.2	1781.8	1821.6	1841.2	1854.7	1862.2	1859.2	1862.2	1867.5	1869.0
15°	1802.9	1820.2	1852.5	1895.3	1908.9	1896.9	1880.4	1865.3	1863.0	1864.5	1869.8
17.5°	1880.4	1893.1	1930.7	1966.8	1957.0	1907.4	1871.2	1847.3	1835.2	1831.5	1836.7
20°	1988.6	1988.6	2019.5	2042.0	1976.6	1892.4	1836.0	1796.8	1772.0	1761.5	1759.2
22.5°	2120.2	2108.2	2127.8	2112.0	1972.8	1850.2	1772.0	1704.4	1666.8	1651.7	1649.4
25°	2287.2	2272.9	2267.7	2169.9	1945.8	1783.3	1656.2	1574.2	1541.1	1532.8	1534.3
27.5°	2539.1	2503.0	2434.7	2201.5	1896.1	1678.0	1520.8	1444.8	1426.1	1426.8	1429.1
30°	2874.6	2802.5	2634.7	2206.7	1814.9	1529.1	1382.4	1328.3	1319.3	1323.0	1335.8
32.5°	3185.3	3116.8	2839.2	2182.6	1690.0	1383.1	1258.3	1222.2	1208.7	1213.2	1219.2
35°	3428.9	3410.2	3028.8	2148.8	1536.6	1246.3	1147.0	1116.1	1089.9	1083.8	1088.3
37.5°	3659.0	3651.6	3170.9	2101.5	1384.7	1149.2	1057.5	1016.9	978.6	957.5	958.2
40°	3911.8	3904.3	3264.2	2028.5	1250.0	1065.0	977.0	923.6	876.3	837.8	841.6
42.5°	4196.1	4151.8	3308.6	1923.9	1135.7	993.5	911.5	839.4	776.9	741.6	743.8
45°	4506.7	4406.7	3307.9	1790.8	1039.5	928.1	841.6	739.3	681.4	648.3	646.9
47.5°	4836.2	4650.4	3267.2	1643.4	946.2	855.9	733.3	655.1	616.7	596.4	591.9
50°	5176.1	4878.3	3198.0	1474.2	850.6	774.0	665.6	612.2	582.9	564.1	557.3
52.5°	5495.7	5085.1	3114.6	1282.4	753.6	694.2	635.5	594.2	563.3	542.3	533.3
55°	5792.9	5263.4	2996.5	1086.1	674.7	640.8	621.3	586.7	551.3	526.4	516.7
57.5°	6056.8	5379.2	2792.6	901.8	618.3	603.9	606.2	573.9	533.3	512.2	498.7
60°	6276.5	5464.2	2491.1	731.0	572.4	567.8	582.9	549.8	502.5	478.4	467.8
62.5°	6408.1	5462.7	2121.0	598.7	533.3	534.7	552.1	519.7	471.6	449.1	442.3
65°	6396.8	5328.8	1714.8	512.2	495.7	497.1	519.7	486.7	446.0	432.4	431.7
67.5°	6170.4	5002.4	1315.5	455.8	454.3	461.0	487.4	464.0	430.2	428.8	431.0
70°	5557.4	4324.7	947.7	410.6	411.4	421.2	455.8	449.8	422.0	425.0	424.2
72.5°	4456.4	3297.3	636.3	363.3	364.1	379.9	425.7	438.5	413.7	453.6	459.5
75°	2967.9	2056.4	409.2	312.9	313.6	333.9	399.3	416.7	391.1	452.0	455.8
77.5°	1426.1	924.3	296.3	263.2	263.2	282.1	345.2	373.1	333.2	351.3	322.0
80°	492.6	347.5	233.2	212.1	207.6	220.4	291.1	323.4	287.3	264.8	248.2
82.5°	194.0	180.5	187.3	164.7	149.6	158.0	226.4	267.0	211.4	191.1	190.2
85°	111.3	117.4	132.3	109.1	86.5	97.1	166.3	191.8	159.5	140.6	143.7
87.5°	30.1	41.4	60.9	56.4	39.2	41.4	78.9	106.1	91.7	70.7	73.0
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)