

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: P962375

Luminaire Tested: **NAV-SB2C-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962375
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-SB2C-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12690.5 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

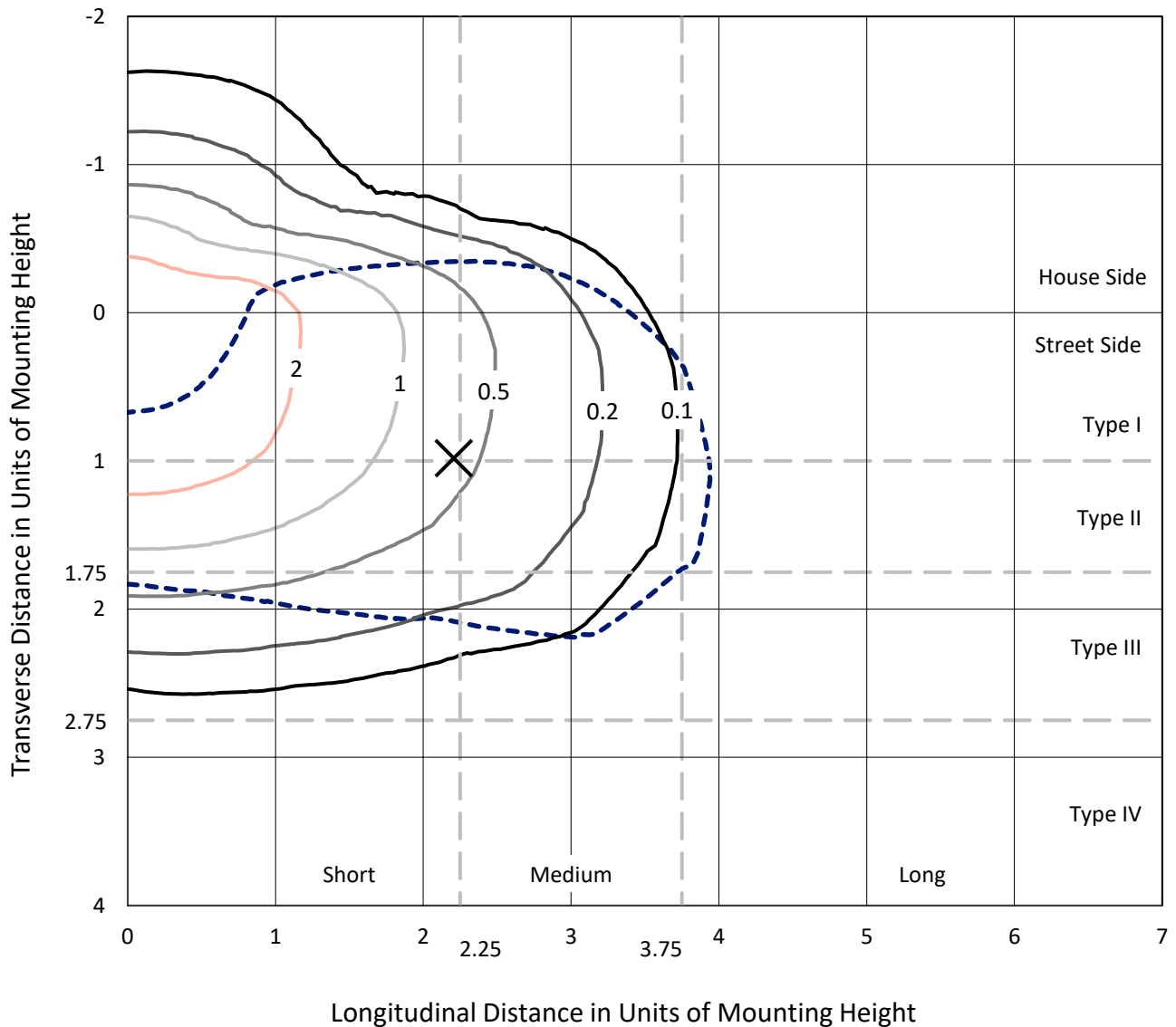
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P962375
 CATALOG NUMBER: NAV-SB2C-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

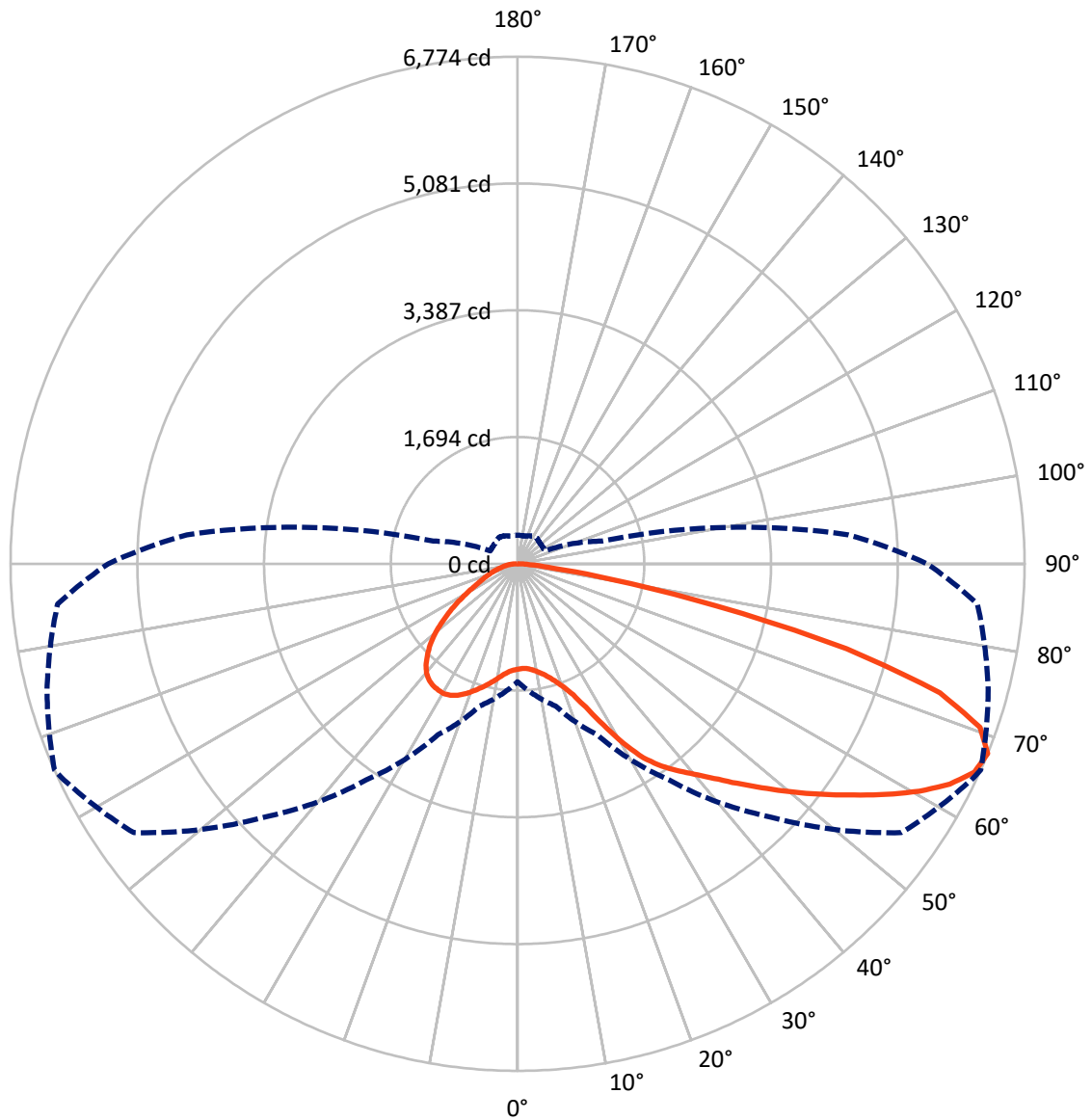
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

REPORT NUMBER: P962375
CATALOG NUMBER: NAV-SB2C-722-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P962375
 CATALOG NUMBER: NAV-SB2C-722-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3155.5	0.0	3155.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	9535.0	0.0	9535.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	12690.5	0.0	12690.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	1.1
10°-20°	461.1	3.6
20°-30°	888.7	7.0
30°-40°	1558.2	12.3
40°-50°	2316.5	18.3
50°-60°	2936.4	23.1
60°-70°	2873.2	22.6
70°-80°	1370.5	10.8
80°-90°	146.5	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°	12690.5	100.0
0°-180°	12690.5	100.0

Coefficient of Utilization

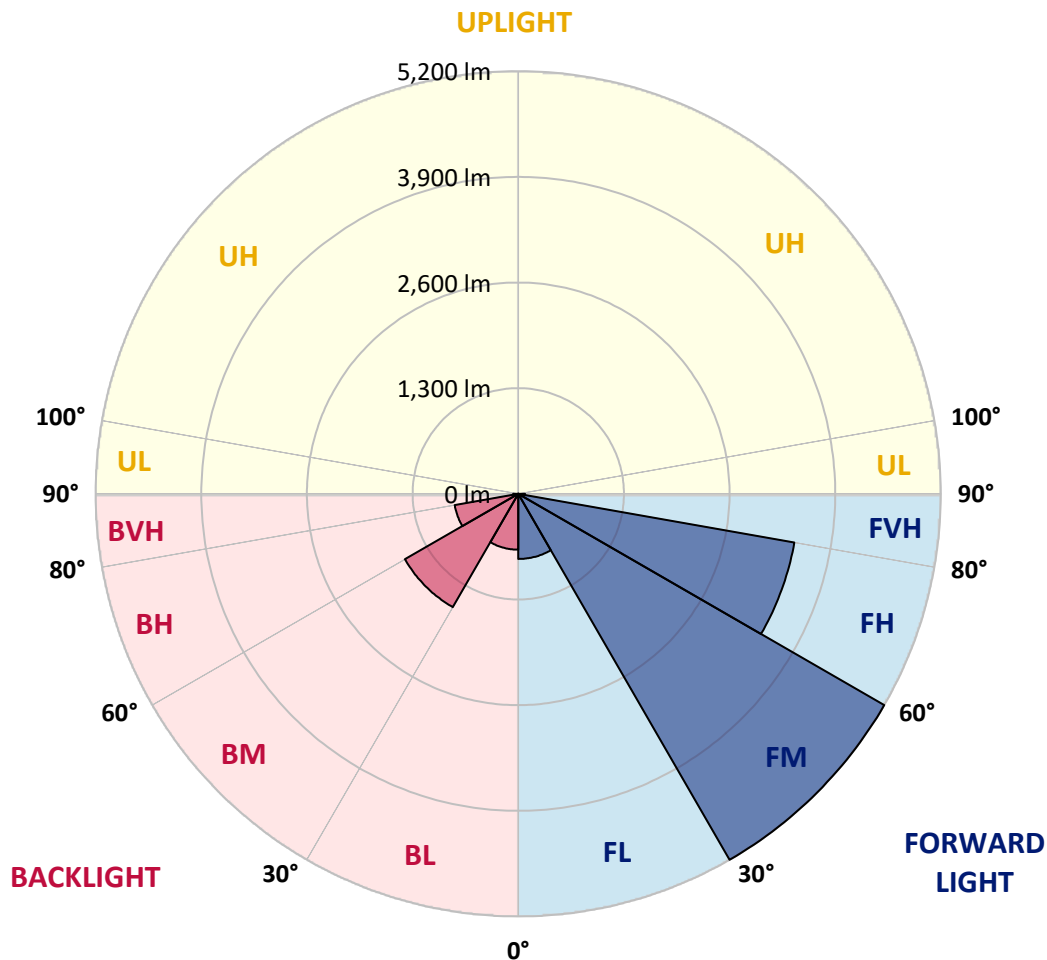


REPORT NUMBER: P962375
 CATALOG NUMBER: NAV-SB2C-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.9	6.3			
FM (30°-60°)	5200.5	41.0			
FH (60°-80°)	3449.6	27.2			G2/5000
FVH (80°-90°)	83.0	0.7			G1/100
BL (0°-30°)	687.4	5.4	B2/1000		
BM (30°-60°)	1610.6	12.7	B2/2500		
BH (60°-80°)	794.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	63.4	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: P962375
 CATALOG NUMBER: NAV-SB2C-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5
2.5°	1392.9	1400.9	1398.9	1395.5	1394.9	1396.3	1398.2	1400.3	1399.5	1402.9	1408.2
5°	1388.9	1396.9	1396.3	1396.3	1398.9	1404.2	1407.5	1410.9	1407.5	1411.5	1418.9
7.5°	1391.5	1397.6	1400.3	1402.9	1409.6	1419.5	1427.5	1434.9	1430.9	1435.5	1444.8
10°	1425.6	1430.2	1432.8	1432.8	1437.6	1448.8	1456.9	1470.3	1466.9	1474.3	1486.2
12.5°	1487.6	1492.2	1492.2	1489.5	1492.9	1500.2	1502.9	1517.5	1511.6	1523.6	1535.6
15°	1563.5	1572.9	1565.6	1560.9	1562.2	1569.6	1568.9	1580.2	1574.2	1584.2	1594.9
17.5°	1647.6	1659.6	1647.6	1646.9	1644.2	1652.3	1652.9	1663.0	1652.3	1659.6	1667.0
20°	1746.9	1763.6	1753.6	1757.0	1750.9	1754.3	1757.6	1772.2	1755.6	1761.0	1758.9
22.5°	1886.9	1906.9	1896.2	1909.0	1905.0	1902.3	1901.6	1927.6	1901.6	1903.6	1884.3
25°	2091.0	2115.0	2096.3	2113.7	2113.7	2122.4	2132.3	2165.6	2122.4	2109.7	2059.6
27.5°	2392.4	2416.3	2379.7	2390.4	2387.0	2408.3	2397.7	2480.4	2433.7	2413.1	2312.4
30°	2755.1	2797.7	2728.4	2725.8	2722.4	2756.4	2771.8	2826.4	2779.1	2758.4	2637.0
32.5°	3147.2	3191.8	3109.1	3085.1	3072.4	3093.1	3080.4	3124.5	3091.8	3059.8	2909.8
35°	3561.9	3605.8	3527.2	3480.5	3429.9	3386.5	3341.2	3352.5	3321.8	3273.1	3117.8
37.5°	3953.9	4034.6	3951.3	3901.3	3807.9	3723.2	3596.5	3543.8	3515.2	3470.5	3313.8
40°	4353.3	4399.3	4336.0	4293.3	4191.9	4059.3	3856.6	3745.2	3706.6	3663.2	3530.5
42.5°	4647.3	4691.4	4657.4	4628.1	4548.6	4394.7	4132.6	3993.3	3937.2	3888.5	3775.9
45°	4880.7	4913.4	4892.1	4902.8	4868.8	4719.4	4418.7	4259.3	4201.3	4141.9	4053.3
47.5°	4974.7	5009.4	5043.4	5106.8	5164.8	5054.8	4726.1	4547.3	4486.0	4425.3	4338.0
50°	4964.1	4999.4	5098.1	5232.8	5412.8	5376.1	5050.1	4854.1	4797.4	4728.0	4647.3
52.5°	4878.7	4918.8	5045.5	5269.4	5556.2	5616.9	5380.1	5170.8	5117.4	5034.8	4954.1
55°	4654.7	4678.7	4868.8	5186.1	5590.1	5784.9	5703.5	5508.1	5454.8	5339.4	5251.5
57.5°	4239.3	4273.9	4550.7	4961.4	5504.9	5898.9	5987.5	5862.9	5811.5	5645.5	5553.6
60°	3697.3	3752.5	4069.2	4584.0	5287.5	5898.3	6245.6	6211.6	6169.0	5946.9	5850.9
62.5°	3083.8	3147.8	3452.5	4050.6	4907.4	5730.9	6407.0	6503.6	6481.7	6224.9	6102.2
65°	2368.4	2412.3	2715.7	3360.5	4316.0	5371.5	6425.6	6703.0	6707.0	6436.3	6233.6
67.5°	1576.9	1703.6	1967.0	2521.7	3523.8	4784.1	6261.6	6735.7	6774.3	6509.0	6167.6
70°	769.5	936.1	1194.2	1638.9	2521.7	3883.2	5832.9	6467.6	6553.6	6297.0	5774.2
72.5°	319.4	373.4	514.0	808.8	1447.5	2620.4	4971.5	5740.8	5900.2	5579.5	4854.7
75°	215.4	233.4	294.1	414.7	659.4	1292.2	3585.2	4280.6	4537.4	4214.0	3444.5
77.5°	166.0	177.3	214.0	290.1	392.1	488.7	1919.0	2579.7	2712.5	2511.0	1792.3
80°	130.7	139.4	160.0	211.4	278.1	261.4	654.1	1168.8	1245.5	1044.8	576.0
82.5°	113.4	116.6	114.7	143.4	184.7	152.7	214.7	431.4	476.1	345.4	188.0
85°	82.0	91.3	95.3	88.7	98.0	77.4	88.0	152.7	168.0	150.1	106.0
87.5°	33.3	49.3	60.7	57.3	36.0	22.0	27.4	44.7	51.4	56.0	34.6
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: P962375
 CATALOG NUMBER: NAV-SB2C-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5	1407.5
2.5°	1408.9	1413.6	1416.9	1420.9	1423.5	1427.5	1435.5	1440.2	1440.8	1444.2	1443.5
5°	1421.6	1428.2	1435.5	1446.2	1458.3	1468.2	1483.6	1494.2	1498.2	1501.5	1500.9
7.5°	1448.8	1458.3	1471.6	1490.2	1507.6	1520.9	1539.6	1552.3	1564.9	1569.6	1570.2
10°	1489.5	1502.9	1522.2	1547.5	1566.2	1583.5	1602.9	1613.6	1626.3	1631.6	1634.3
12.5°	1540.3	1554.2	1579.5	1614.9	1632.2	1644.2	1651.0	1648.2	1651.0	1655.6	1656.9
15°	1598.3	1613.6	1642.3	1680.3	1692.3	1681.6	1667.0	1653.6	1651.6	1652.9	1657.6
17.5°	1667.0	1678.2	1711.5	1743.6	1734.9	1690.9	1659.0	1637.5	1626.9	1623.6	1628.2
20°	1762.9	1762.9	1790.3	1810.3	1752.2	1677.6	1627.6	1593.0	1570.9	1561.6	1559.5
22.5°	1879.6	1869.0	1886.3	1872.3	1749.0	1640.2	1570.9	1510.8	1477.5	1464.2	1462.3
25°	2027.7	2014.9	2010.3	1923.6	1725.0	1580.9	1468.2	1395.5	1366.2	1358.8	1360.2
27.5°	2251.0	2219.0	2158.3	1951.6	1680.9	1487.6	1348.2	1280.8	1264.2	1264.8	1266.9
30°	2548.4	2484.4	2335.7	1956.3	1608.9	1355.6	1225.5	1177.5	1169.5	1172.8	1184.2
32.5°	2823.8	2763.1	2517.1	1935.0	1498.2	1226.2	1115.5	1083.5	1071.5	1075.5	1080.9
35°	3039.8	3023.1	2685.1	1905.0	1362.2	1104.8	1016.8	989.4	966.2	960.8	964.8
37.5°	3243.8	3237.2	2811.1	1862.9	1227.5	1018.8	937.5	901.5	867.5	848.8	849.4
40°	3467.9	3461.2	2893.8	1798.3	1108.1	944.1	866.1	818.8	776.7	742.8	746.1
42.5°	3719.9	3680.6	2933.1	1705.6	1006.9	880.8	808.1	744.2	688.8	657.4	659.4
45°	3995.2	3906.6	2932.4	1587.6	921.5	822.8	746.1	655.4	604.1	574.7	573.4
47.5°	4287.3	4122.7	2896.4	1456.9	838.8	758.8	650.1	580.8	546.7	528.8	524.7
50°	4588.7	4324.7	2835.0	1306.9	754.1	686.1	590.1	542.7	516.7	500.1	494.0
52.5°	4872.0	4508.1	2761.0	1136.8	668.1	615.4	563.4	526.7	499.4	480.7	472.7
55°	5135.5	4666.0	2656.4	962.8	598.1	568.1	550.7	520.1	488.7	466.8	458.1
57.5°	5369.5	4768.7	2475.7	799.5	548.1	535.5	537.4	508.7	472.7	454.1	442.1
60°	5564.2	4844.0	2208.4	648.1	507.4	503.4	516.7	487.4	445.4	424.0	414.7
62.5°	5680.9	4842.7	1880.3	530.7	472.7	474.1	489.4	460.7	418.1	398.1	392.1
65°	5670.8	4724.0	1520.3	454.1	439.4	440.7	460.7	431.4	395.3	383.3	382.7
67.5°	5470.1	4434.7	1166.1	404.1	402.7	408.8	432.0	411.4	381.4	380.1	382.0
70°	4926.8	3833.9	840.1	364.1	364.7	373.4	404.1	398.7	374.0	376.7	376.1
72.5°	3950.6	2923.1	564.1	322.1	322.7	336.7	377.4	388.7	366.7	402.1	407.4
75°	2631.1	1823.0	362.7	277.4	278.1	296.0	354.0	369.4	346.8	400.8	404.1
77.5°	1264.2	819.5	262.7	233.4	233.4	250.0	306.1	330.8	295.4	311.4	285.4
80°	436.8	308.0	206.7	188.0	184.0	195.4	258.0	286.7	254.7	234.7	220.1
82.5°	172.0	160.0	166.0	146.1	132.7	140.0	200.7	236.7	187.4	169.3	168.7
85°	98.7	104.0	117.4	96.7	76.7	86.0	147.4	170.0	141.3	124.6	127.3
87.5°	26.6	36.7	54.0	50.0	34.6	36.7	70.0	94.0	81.4	62.6	64.7
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)