

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: P962406

Luminaire Tested: **NAV-SB2C-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962406
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-727-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14248.5 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

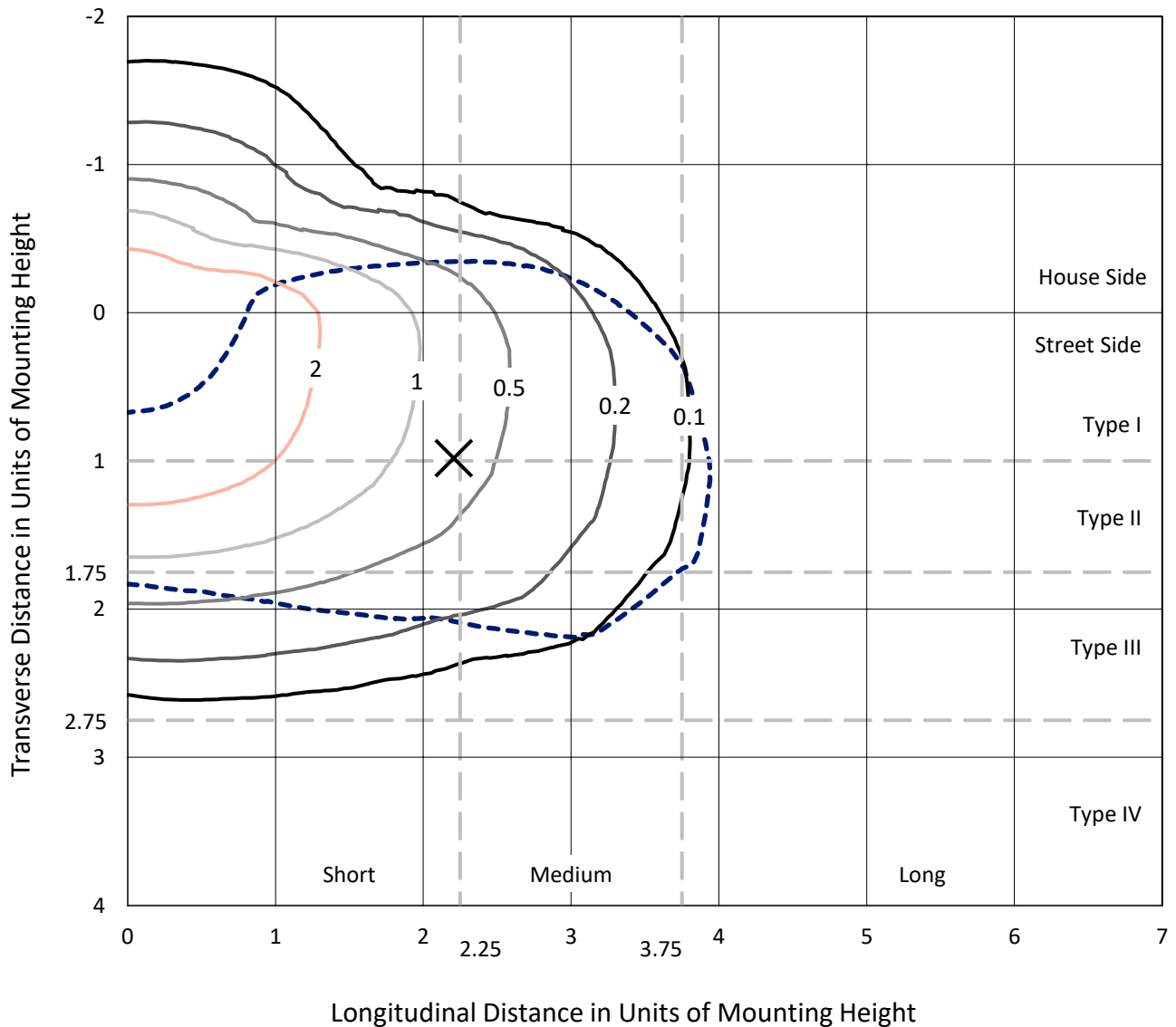
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

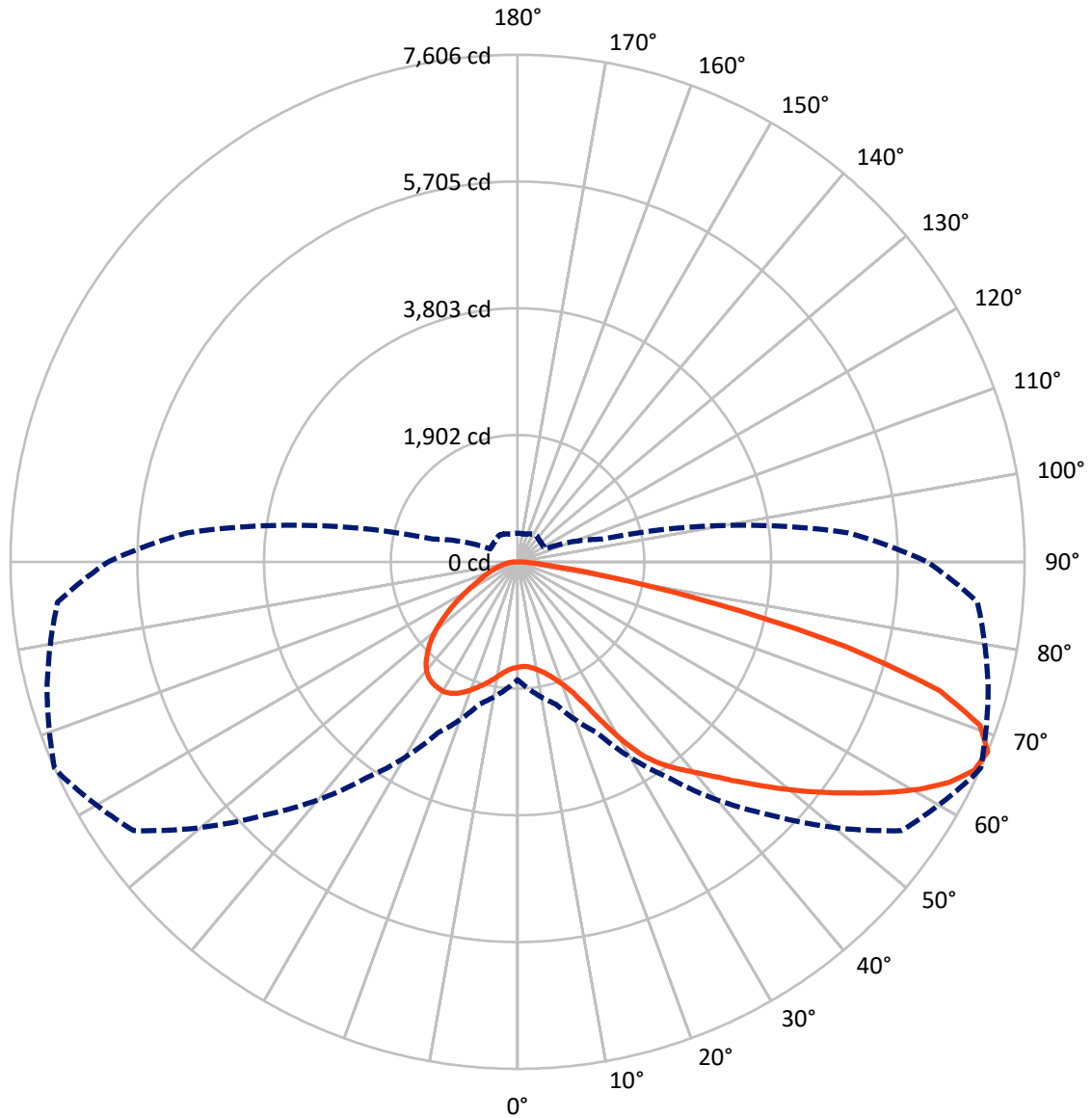
✕ Max cd
 - - - 1/2 Max cd



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	3542.8	0.0	3542.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	10705.7	0.0	10705.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	14248.5	0.0	14248.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	1.1
10°-20°	517.7	3.6
20°-30°	997.8	7.0
30°-40°	1749.5	12.3
40°-50°	2600.9	18.3
50°-60°	3296.9	23.1
60°-70°	3225.9	22.6
70°-80°	1538.8	10.8
80°-90°	164.5	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°	14248.5	100.0
0°-180°	14248.5	100.0

Coefficient of Utilization

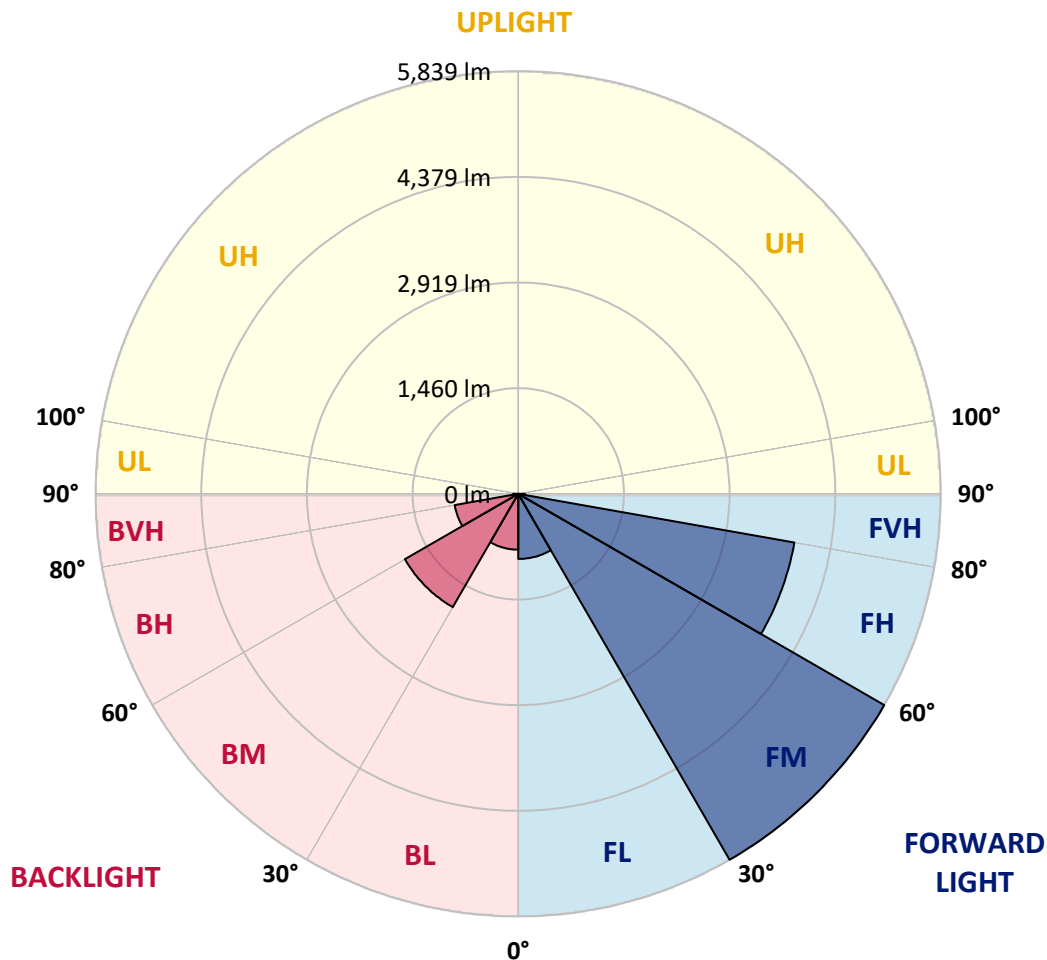


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	900.4	6.3			
FM (30°-60°)	5838.9	41.0			
FH (60°-80°)	3873.1	27.2			G2/5000
FVH (80°-90°)	93.2	0.7			G1/100
BL (0°-30°)	771.8	5.4	B2/1000		
BM (30°-60°)	1808.3	12.7	B2/2500		
BH (60°-80°)	891.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	71.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3
2.5°	1563.8	1572.9	1570.6	1566.9	1566.1	1567.6	1569.9	1572.1	1571.3	1575.1	1581.1
5°	1559.4	1568.4	1567.6	1567.6	1570.6	1576.7	1580.3	1584.1	1580.3	1584.9	1593.1
7.5°	1562.4	1569.1	1572.1	1575.1	1582.6	1593.9	1602.8	1611.0	1606.6	1611.8	1622.3
10°	1600.5	1605.8	1608.8	1608.8	1614.1	1626.8	1635.8	1650.8	1647.0	1655.2	1668.7
12.5°	1670.1	1675.5	1675.5	1672.4	1676.2	1684.4	1687.4	1703.9	1697.1	1710.6	1724.0
15°	1755.5	1766.0	1757.8	1752.5	1754.0	1762.3	1761.6	1774.3	1767.5	1778.8	1790.7
17.5°	1849.8	1863.3	1849.8	1849.1	1846.1	1855.0	1855.9	1867.0	1855.0	1863.3	1871.5
20°	1961.4	1980.1	1968.9	1972.6	1965.8	1969.6	1973.3	1989.8	1971.2	1977.1	1974.9
22.5°	2118.6	2141.0	2129.1	2143.3	2138.9	2135.8	2135.1	2164.3	2135.1	2137.3	2115.6
25°	2347.7	2374.6	2353.7	2373.2	2373.2	2382.9	2394.1	2431.5	2382.9	2368.7	2312.5
27.5°	2686.1	2713.0	2671.9	2683.9	2680.1	2704.1	2692.1	2784.9	2732.4	2709.3	2596.2
30°	3093.3	3141.2	3063.4	3060.3	3056.7	3094.8	3112.0	3173.4	3120.3	3097.0	2960.8
32.5°	3533.5	3583.7	3490.8	3463.9	3449.6	3472.9	3458.7	3508.1	3471.4	3435.5	3267.0
35°	3999.1	4048.5	3960.2	3907.8	3850.9	3802.2	3751.4	3764.1	3729.7	3675.0	3500.6
37.5°	4439.4	4530.0	4436.4	4380.2	4275.4	4180.4	4038.1	3978.9	3946.8	3896.6	3720.6
40°	4887.8	4939.5	4868.3	4820.4	4706.6	4557.7	4330.0	4205.1	4161.6	4112.9	3964.0
42.5°	5218.0	5267.4	5229.1	5196.2	5107.2	4934.1	4640.0	4483.6	4420.6	4366.0	4239.5
45°	5480.0	5516.7	5492.7	5504.7	5466.4	5298.7	4961.1	4782.2	4717.0	4650.4	4550.9
47.5°	5585.5	5624.4	5662.6	5733.7	5798.8	5675.3	5306.2	5105.6	5036.7	4968.6	4870.6
50°	5573.5	5613.2	5724.0	5875.2	6077.3	6036.1	5670.1	5450.0	5386.4	5308.5	5218.0
52.5°	5477.7	5522.6	5664.9	5916.4	6238.3	6306.4	6040.6	5805.6	5745.7	5652.9	5562.3
55°	5226.2	5253.1	5466.4	5822.8	6276.5	6495.1	6403.8	6184.4	6124.5	5995.0	5896.2
57.5°	4759.8	4798.7	5109.4	5570.6	6180.6	6623.1	6722.7	6582.7	6525.0	6338.6	6235.3
60°	4151.1	4213.3	4568.8	5146.8	5936.6	6622.3	7012.3	6974.2	6926.3	6677.0	6569.2
62.5°	3462.3	3534.3	3876.3	4547.9	5509.9	6434.4	7193.6	7302.1	7277.4	6989.2	6851.4
65°	2659.2	2708.6	3049.2	3773.0	4845.9	6030.9	7214.5	7526.0	7530.5	7226.5	6998.9
67.5°	1770.5	1912.8	2208.5	2831.3	3956.5	5371.4	7030.4	7562.7	7606.0	7308.0	6924.8
70°	863.9	1051.0	1340.8	1840.1	2831.3	4360.0	6548.9	7261.7	7358.3	7070.0	6483.1
72.5°	358.5	419.2	577.2	908.0	1625.2	2942.1	5581.7	6445.7	6624.6	6264.5	5450.7
75°	241.8	262.0	330.2	465.7	740.4	1450.9	4025.4	4806.2	5094.4	4731.3	3867.4
77.5°	186.4	199.2	240.3	325.6	440.2	548.8	2154.5	2896.4	3045.4	2819.4	2012.3
80°	146.8	156.4	179.7	237.3	312.2	293.5	734.4	1312.3	1398.4	1173.1	646.8
82.5°	127.3	131.0	128.7	160.9	207.4	171.5	241.1	484.3	534.5	387.8	211.2
85°	92.0	102.6	107.0	99.5	110.1	86.8	98.8	171.5	188.7	168.4	119.0
87.5°	37.4	55.4	68.2	64.4	40.4	24.7	30.6	50.1	57.6	62.9	38.9
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°	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3
2.5°	1581.9	1587.1	1590.8	1595.3	1598.3	1602.8	1611.8	1617.0	1617.8	1621.6	1620.7
5°	1596.0	1603.5	1611.8	1623.8	1637.2	1648.5	1665.7	1677.7	1682.1	1685.9	1685.2
7.5°	1626.8	1637.2	1652.2	1673.2	1692.7	1707.6	1728.6	1742.8	1757.1	1762.3	1763.0
10°	1672.4	1687.4	1709.1	1737.6	1758.5	1778.0	1799.7	1811.7	1825.9	1831.9	1834.9
12.5°	1729.3	1745.1	1773.5	1813.1	1832.6	1846.1	1853.6	1850.6	1853.6	1858.8	1860.4
15°	1794.5	1811.7	1843.9	1886.5	1900.0	1888.0	1871.5	1856.6	1854.3	1855.9	1861.1
17.5°	1871.5	1884.3	1921.8	1957.6	1947.9	1898.5	1862.6	1838.6	1826.7	1822.9	1828.2
20°	1979.4	1979.4	2010.0	2032.5	1967.4	1883.5	1827.4	1788.4	1763.7	1753.3	1751.0
22.5°	2110.4	2098.4	2117.9	2102.2	1963.7	1841.6	1763.7	1696.4	1659.0	1644.0	1641.7
25°	2276.5	2262.4	2257.2	2159.8	1936.7	1775.0	1648.5	1566.9	1533.9	1525.7	1527.1
27.5°	2527.3	2491.5	2423.3	2191.2	1887.3	1670.1	1513.7	1438.1	1419.4	1420.1	1422.4
30°	2861.3	2789.3	2622.5	2196.5	1806.5	1521.9	1376.0	1322.0	1313.1	1316.8	1329.5
32.5°	3170.4	3102.3	2826.0	2172.5	1682.1	1376.7	1252.4	1216.5	1203.0	1207.6	1213.5
35°	3412.9	3394.3	3014.7	2138.9	1529.4	1240.5	1141.6	1111.0	1084.8	1078.8	1083.2
37.5°	3642.0	3634.5	3156.2	2091.6	1378.2	1143.9	1052.6	1012.2	974.0	953.0	953.8
40°	3893.6	3886.1	3249.0	2019.0	1244.2	1060.1	972.4	919.3	872.2	833.9	837.7
42.5°	4176.6	4132.4	3293.2	1915.0	1130.5	988.9	907.3	835.5	773.4	738.1	740.4
45°	4485.8	4386.2	3292.5	1782.5	1034.6	923.8	837.7	735.9	678.2	645.3	643.8
47.5°	4813.7	4628.8	3252.0	1635.8	941.8	852.0	729.9	652.0	613.9	593.7	589.2
50°	5152.1	4855.6	3183.1	1467.3	846.6	770.3	662.6	609.4	580.2	561.5	554.7
52.5°	5470.2	5061.4	3100.0	1276.4	750.1	691.0	632.6	591.4	560.7	539.8	530.7
55°	5765.9	5238.9	2982.5	1081.0	671.5	637.9	618.4	583.9	548.8	524.1	514.3
57.5°	6028.6	5354.2	2779.7	897.6	615.4	601.2	603.4	571.2	530.7	509.8	496.3
60°	6247.3	5438.8	2479.5	727.6	569.7	565.2	580.2	547.2	500.1	476.1	465.7
62.5°	6378.3	5437.3	2111.1	595.9	530.7	532.3	549.5	517.3	469.3	446.9	440.2
65°	6367.1	5304.0	1706.8	509.8	493.3	494.9	517.3	484.3	443.9	430.5	429.7
67.5°	6141.7	4979.1	1309.3	453.7	452.1	458.9	485.1	461.9	428.2	426.7	429.0
70°	5531.6	4304.6	943.3	408.8	409.5	419.2	453.7	447.7	419.9	423.0	422.2
72.5°	4435.6	3281.9	633.3	361.6	362.3	378.0	423.7	436.4	411.7	451.4	457.5
75°	2954.0	2046.7	407.2	311.4	312.2	332.4	397.5	414.7	389.3	450.0	453.7
77.5°	1419.4	920.0	295.0	262.0	262.0	280.7	343.6	371.4	331.7	349.6	320.4
80°	490.4	345.8	232.1	211.2	206.6	219.4	289.8	322.0	286.0	263.5	247.0
82.5°	193.1	179.7	186.4	164.0	148.9	157.2	225.3	265.8	210.3	190.1	189.4
85°	110.8	116.7	131.7	108.5	86.1	96.6	165.4	190.9	158.7	140.0	143.0
87.5°	29.9	41.2	60.7	56.2	38.9	41.2	78.6	105.6	91.3	70.4	72.6
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)