

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: P883054

Luminaire Tested: **NAV-SB3B-722-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13342 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

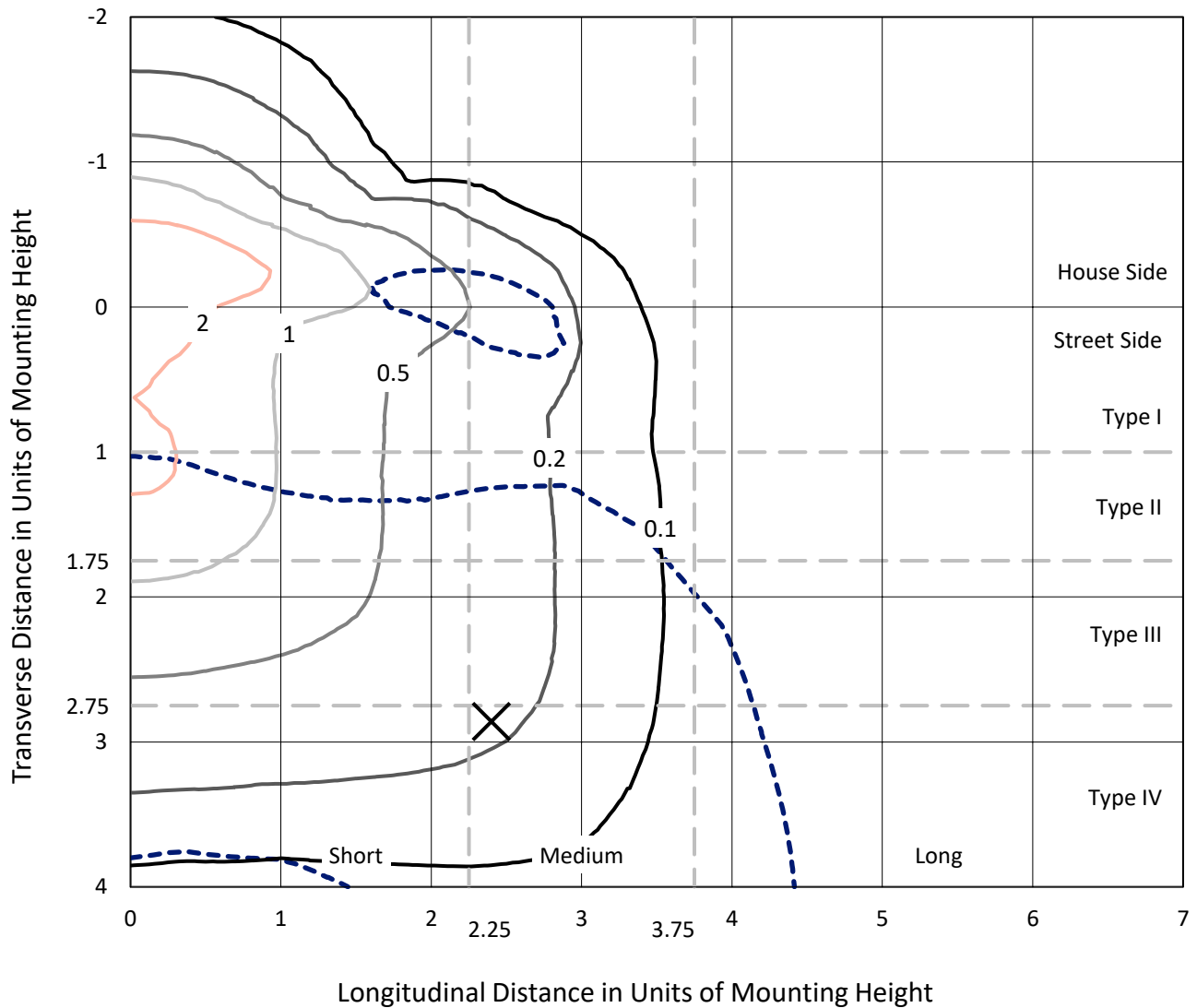
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

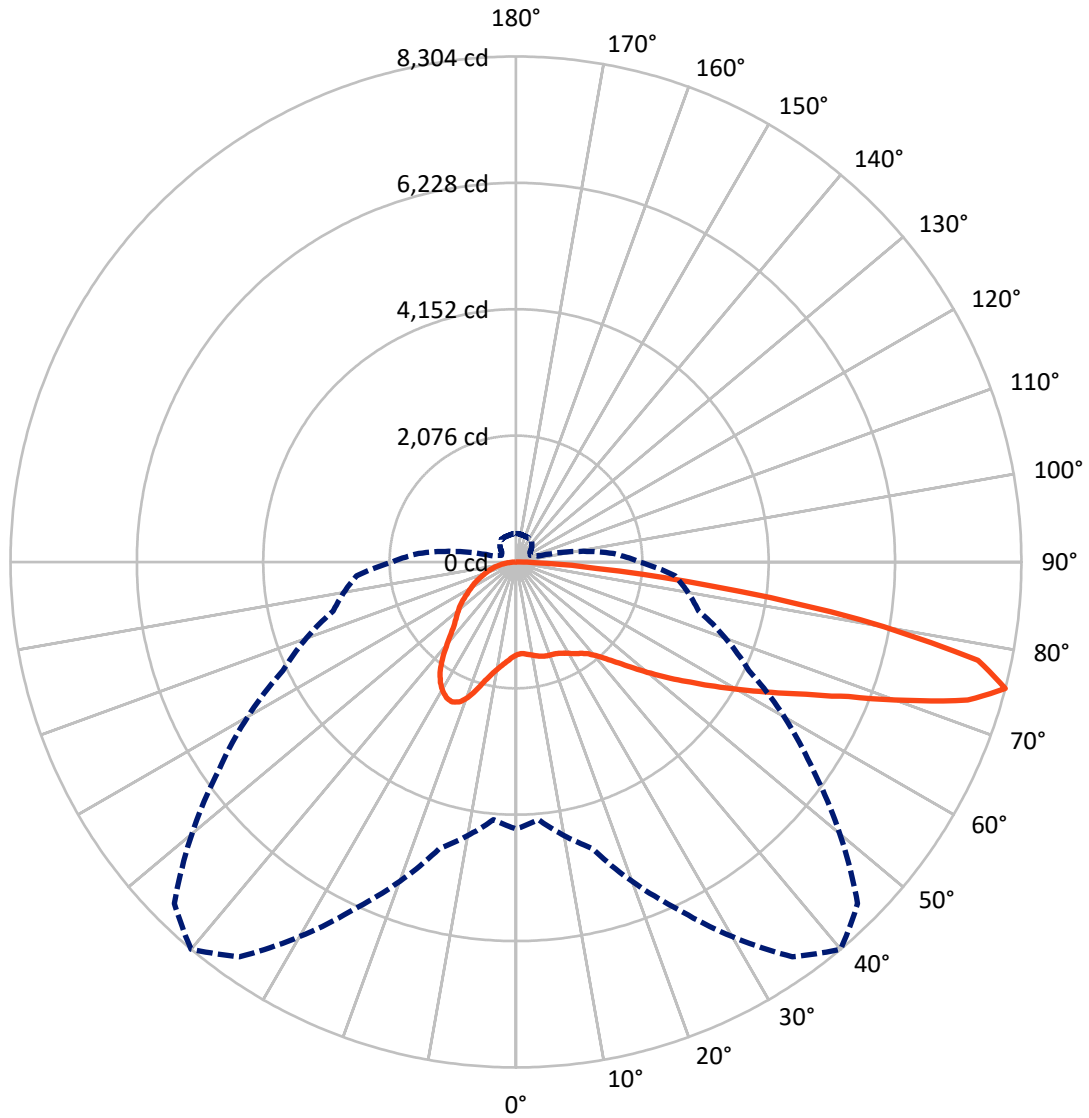
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4133.8	0.0	4133.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	9208.2	0.0	9208.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	13342.0	0.0	13342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	1.1
10°-20°	511.3	3.8
20°-30°	933.6	7.0
30°-40°	1324.1	9.9
40°-50°	1788.0	13.4
50°-60°	2405.3	18.0
60°-70°	3052.9	22.9
70°-80°	2770.7	20.8
80°-90°	403.9	3.0
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°	13342.0	100.0
0°-180°	13342.0	100.0

Coefficient of Utilization



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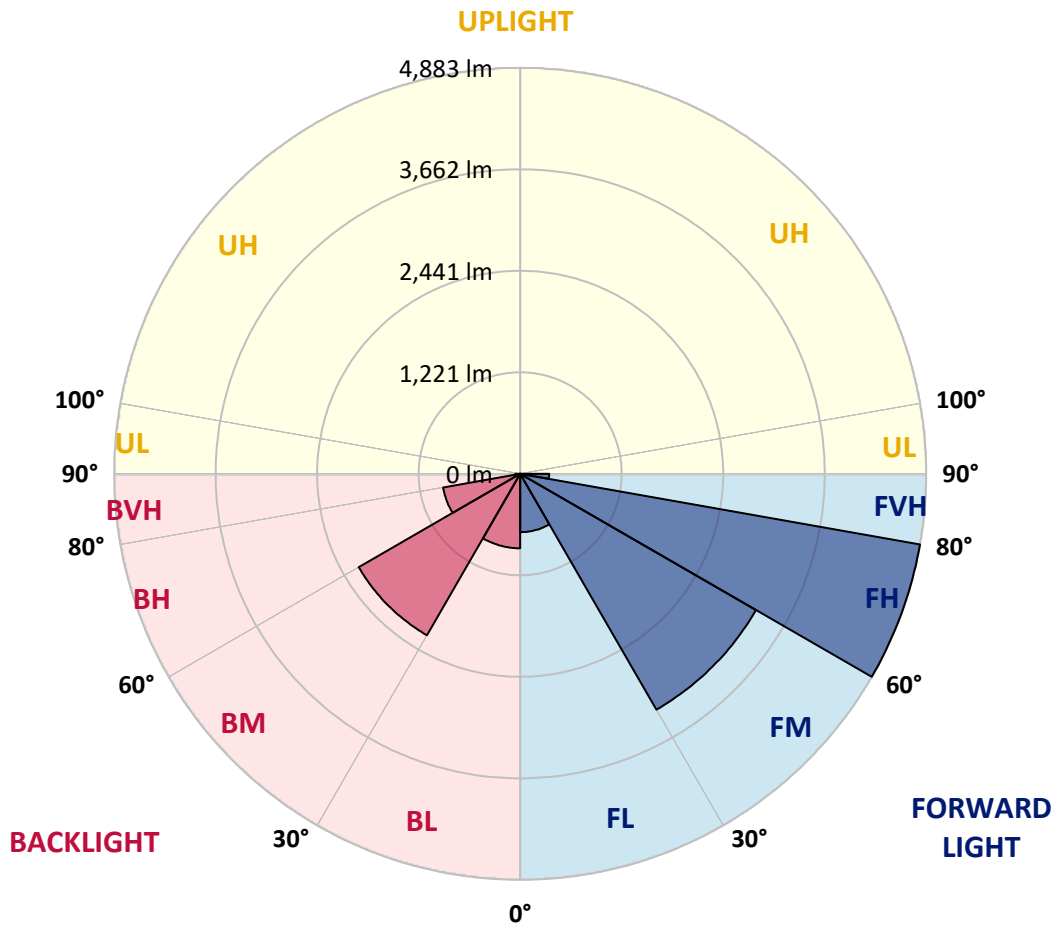
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	701.8	5.3			
FM (30°-60°)	3275.2	24.5			
FH (60°-80°)	4883.0	36.6			G2/5000
FVH (80°-90°)	348.3	2.6			G3/500
BL (0°-30°)	895.4	6.7	B2/1000		
BM (30°-60°)	2242.2	16.8	B2/2500		
BH (60°-80°)	940.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	55.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7
2.5°	1502.3	1510.8	1508.7	1505.9	1505.9	1506.6	1505.9	1510.8	1515.8	1520.7	1528.5
5°	1517.9	1526.4	1522.1	1518.6	1515.8	1515.1	1512.9	1512.2	1515.1	1521.4	1532.0
7.5°	1548.3	1556.8	1550.4	1544.1	1538.4	1535.6	1532.8	1528.5	1526.4	1529.9	1544.8
10°	1582.3	1590.8	1583.0	1571.7	1562.5	1558.9	1556.1	1551.9	1549.0	1551.2	1567.4
12.5°	1616.3	1624.7	1614.1	1598.6	1586.5	1584.4	1580.9	1579.5	1578.7	1578.0	1594.3
15°	1648.1	1655.2	1641.7	1623.3	1610.6	1607.1	1603.5	1605.6	1609.2	1613.4	1631.8
17.5°	1672.9	1679.9	1660.1	1636.1	1624.0	1622.6	1620.5	1627.6	1637.5	1648.1	1670.7
20°	1695.5	1702.6	1677.1	1644.6	1630.4	1630.4	1631.1	1646.0	1660.1	1675.7	1706.8
22.5°	1727.4	1733.0	1701.9	1657.3	1636.8	1638.2	1643.9	1658.7	1676.4	1697.6	1740.8
25°	1774.8	1779.0	1740.8	1681.4	1658.0	1662.3	1667.2	1674.3	1691.3	1716.0	1774.1
27.5°	1851.2	1854.7	1804.5	1723.8	1688.4	1695.5	1702.6	1697.6	1705.4	1726.6	1800.9
30°	1958.8	1960.9	1897.2	1790.3	1740.1	1743.6	1745.0	1724.5	1709.7	1726.6	1820.1
32.5°	2086.1	2085.4	2009.7	1871.0	1798.8	1795.3	1783.3	1742.9	1708.2	1723.1	1837.0
35°	2283.6	2275.8	2178.1	1984.2	1865.3	1843.4	1815.1	1763.4	1715.3	1719.6	1851.9
37.5°	2610.5	2586.4	2451.3	2169.6	1964.4	1908.5	1866.8	1796.7	1730.9	1718.2	1869.6
40°	2979.2	2948.7	2800.1	2423.7	2113.0	2023.1	1955.9	1844.1	1756.4	1724.5	1895.8
42.5°	3416.5	3373.3	3213.4	2723.0	2301.3	2171.0	2069.9	1904.3	1793.9	1745.0	1931.2
45°	3953.6	3896.3	3669.8	3060.6	2538.3	2364.9	2229.8	1995.5	1851.2	1784.7	1984.2
47.5°	4496.4	4510.5	4188.5	3446.9	2822.8	2604.1	2430.0	2132.8	1934.7	1848.4	2069.9
50°	5073.1	5083.0	4704.4	3875.0	3145.5	2874.4	2655.1	2286.4	2050.7	1938.9	2197.9
52.5°	5523.1	5524.6	5172.9	4323.0	3481.6	3171.7	2897.8	2461.9	2185.2	2059.2	2368.5
55°	5804.8	5801.2	5501.2	4746.9	3868.0	3483.7	3166.7	2661.4	2349.4	2200.8	2582.9
57.5°	6009.3	5998.7	5727.7	5111.3	4279.8	3852.4	3471.0	2887.9	2543.3	2369.2	2865.2
60°	6087.1	6080.8	5881.2	5426.2	4712.9	4260.0	3822.0	3141.2	2763.3	2568.0	3228.3
62.5°	6116.9	6128.9	6031.9	5731.2	5176.4	4711.5	4207.6	3444.1	3011.0	2793.1	3611.1
65°	6221.6	6243.5	6223.7	6130.3	5700.1	5240.1	4719.3	3804.3	3281.3	3034.4	4010.9
67.5°	6428.9	6450.9	6459.4	6608.0	6339.8	5898.9	5357.6	4252.9	3597.7	3284.9	4311.7
70°	6424.0	6417.6	6567.6	6988.0	7140.8	6811.1	6218.0	4804.9	3974.8	3492.9	4349.9
72.5°	5847.2	5796.3	6150.8	6983.7	7807.4	7763.5	7268.9	5516.8	4300.3	3518.4	3774.6
75°	4386.7	4250.8	4877.1	6293.8	7918.5	8304.2	7936.9	5958.3	4223.2	3108.7	2626.8
77.5°	1876.0	1739.4	2477.5	4659.1	7087.0	7762.8	7324.1	5198.3	3371.2	2055.7	1290.0
80°	491.1	490.4	748.7	2112.3	4819.7	5732.6	5029.2	3357.1	1926.2	734.5	355.9
82.5°	203.1	198.1	275.3	821.6	2355.0	3216.9	2625.4	1497.4	695.6	198.8	118.2
85°	75.7	75.0	133.7	283.8	830.8	1326.8	960.3	382.8	173.4	96.9	53.1
87.5°	21.2	20.5	29.0	98.4	202.4	307.1	164.2	63.0	48.8	38.2	15.6
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°	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7	1525.7
2.5°	1530.6	1534.2	1540.5	1545.5	1551.9	1558.9	1568.8	1575.2	1581.6	1585.8	1583.0
5°	1537.0	1544.8	1561.1	1577.3	1596.4	1614.1	1634.7	1649.5	1661.5	1665.1	1666.5
7.5°	1551.2	1563.9	1591.5	1619.1	1649.5	1678.5	1708.2	1733.7	1754.2	1762.0	1762.7
10°	1575.9	1592.9	1631.8	1670.7	1711.1	1755.7	1793.9	1830.7	1859.7	1871.7	1872.4
12.5°	1607.1	1628.3	1679.2	1733.0	1788.9	1850.5	1900.0	1945.3	1981.4	1997.7	1997.7
15°	1647.4	1675.0	1740.1	1812.3	1894.4	1980.0	2043.0	2093.2	2133.5	2153.4	2151.9
17.5°	1691.3	1728.1	1810.1	1919.1	2036.6	2149.1	2222.7	2259.5	2301.3	2320.4	2319.6
20°	1733.7	1779.0	1896.5	2055.0	2211.4	2331.0	2390.4	2400.3	2403.2	2405.3	2410.9
22.5°	1777.6	1838.5	2004.7	2226.2	2394.0	2476.7	2485.2	2442.8	2383.3	2355.7	2363.5
25°	1825.7	1906.4	2146.3	2415.2	2551.0	2561.0	2495.9	2392.5	2280.0	2228.4	2236.1
27.5°	1872.4	1984.9	2316.1	2595.6	2664.3	2577.2	2437.1	2290.6	2154.8	2100.3	2106.6
30°	1919.1	2074.8	2503.6	2753.4	2715.9	2536.9	2344.4	2181.0	2044.4	1987.1	1993.4
32.5°	1966.5	2179.5	2719.5	2867.4	2706.7	2451.3	2229.1	2057.8	1937.5	1877.4	1885.2
35°	2020.3	2308.3	2924.0	2929.6	2645.2	2325.3	2076.9	1910.6	1805.9	1757.8	1768.4
37.5°	2090.4	2471.8	3104.4	2945.2	2537.6	2140.6	1888.0	1736.6	1650.2	1628.3	1643.9
40°	2177.4	2668.5	3242.4	2920.4	2378.4	1916.3	1681.4	1560.3	1511.5	1516.5	1533.5
42.5°	2290.6	2888.6	3339.4	2856.7	2156.9	1684.9	1500.2	1446.4	1469.8	1489.6	1508.0
45°	2437.8	3117.2	3399.5	2748.5	1906.4	1488.9	1393.3	1406.1	1423.8	1425.9	1440.1
47.5°	2626.1	3348.6	3439.1	2585.0	1650.9	1350.9	1325.4	1328.2	1324.7	1309.8	1321.2
50°	2861.0	3573.6	3474.5	2368.5	1433.7	1264.6	1230.6	1220.7	1171.9	1123.7	1130.1
52.5°	3128.5	3780.2	3489.4	2099.6	1264.6	1192.4	1137.2	1074.9	983.6	968.8	973.7
55°	3425.7	3971.3	3451.2	1769.1	1122.3	1099.7	1016.2	941.2	931.3	918.5	920.6
57.5°	3780.9	4177.2	3373.3	1400.4	976.5	991.4	910.0	918.5	900.8	881.0	877.5
60°	4169.4	4390.2	3236.8	1064.3	825.8	856.2	882.4	881.7	876.8	860.5	854.8
62.5°	4519.0	4530.3	2967.8	815.2	693.5	751.5	823.0	822.3	818.0	808.8	805.3
65°	4727.0	4509.1	2519.2	641.8	584.5	665.2	742.3	748.0	748.7	748.0	748.0
67.5°	4690.2	4260.7	1903.6	510.9	494.6	577.4	662.4	670.1	675.8	677.2	678.6
70°	4274.2	3715.1	1241.2	407.6	414.7	500.3	586.6	594.4	599.4	605.0	607.9
72.5°	3331.6	2731.5	710.5	329.8	344.6	433.8	511.6	520.8	523.7	534.3	538.5
75°	2030.2	1606.3	383.5	259.7	283.1	370.8	437.3	447.9	452.9	465.6	467.0
77.5°	965.2	695.6	218.7	202.4	227.9	302.9	369.4	381.4	368.0	375.1	369.4
80°	326.2	258.3	138.0	154.3	174.1	236.4	295.8	307.8	279.5	278.1	275.3
82.5°	113.9	104.7	87.7	102.6	112.5	169.1	223.6	239.2	208.0	207.3	197.4
85°	44.6	42.5	48.8	55.9	67.2	104.0	147.2	155.0	128.1	103.3	101.9
87.5°	9.2	9.9	12.0	12.7	20.5	36.1	53.1	65.1	51.7	43.9	40.3
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)