

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: P882944

Luminaire Tested: **NAV-SB3A-760-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882944
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-SB3A-760-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 350mA 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: 14379 lumens
Efficiency: N/A
Efficacy: 169.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

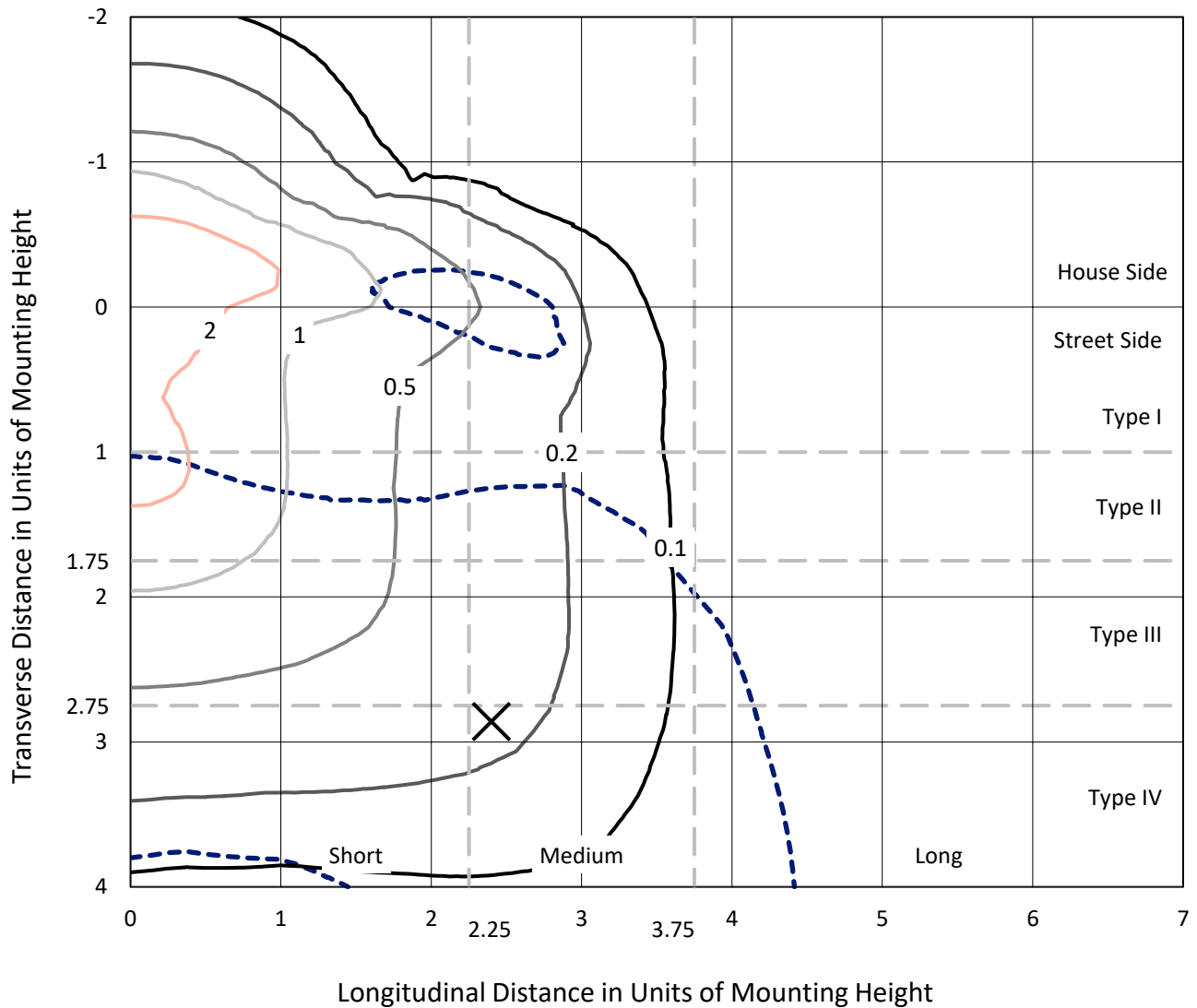
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

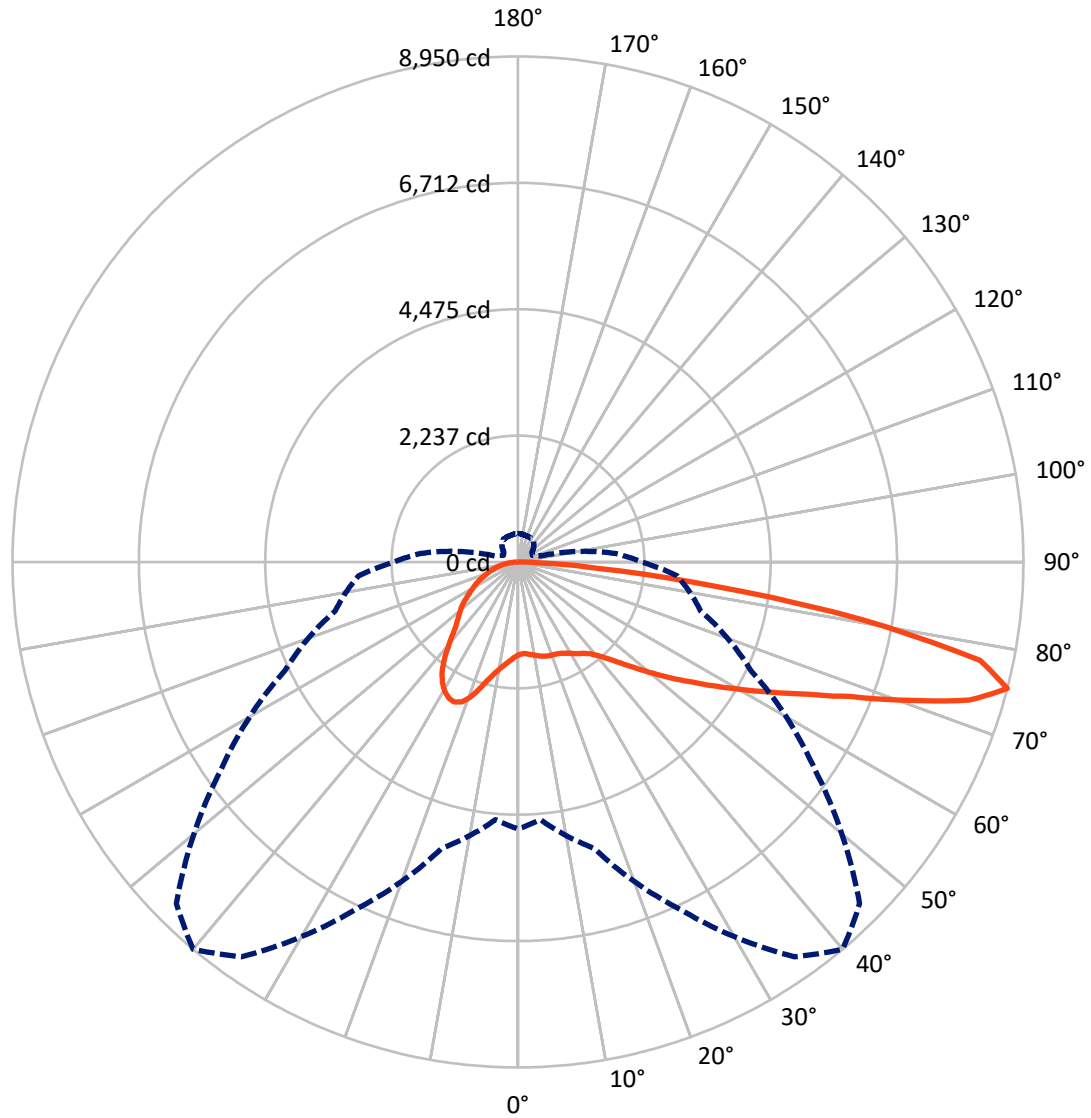
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P882944
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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	4455.1	0.0	4455.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	9923.9	0.0	9923.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	14379.0	0.0	14379.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	1.1
10°-20°	551.1	3.8
20°-30°	1006.2	7.0
30°-40°	1427.0	9.9
40°-50°	1926.9	13.4
50°-60°	2592.2	18.0
60°-70°	3290.1	22.9
70°-80°	2986.0	20.8
80°-90°	435.3	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°	14379.0	100.0
0°-180°	14379.0	100.0

Coefficient of Utilization



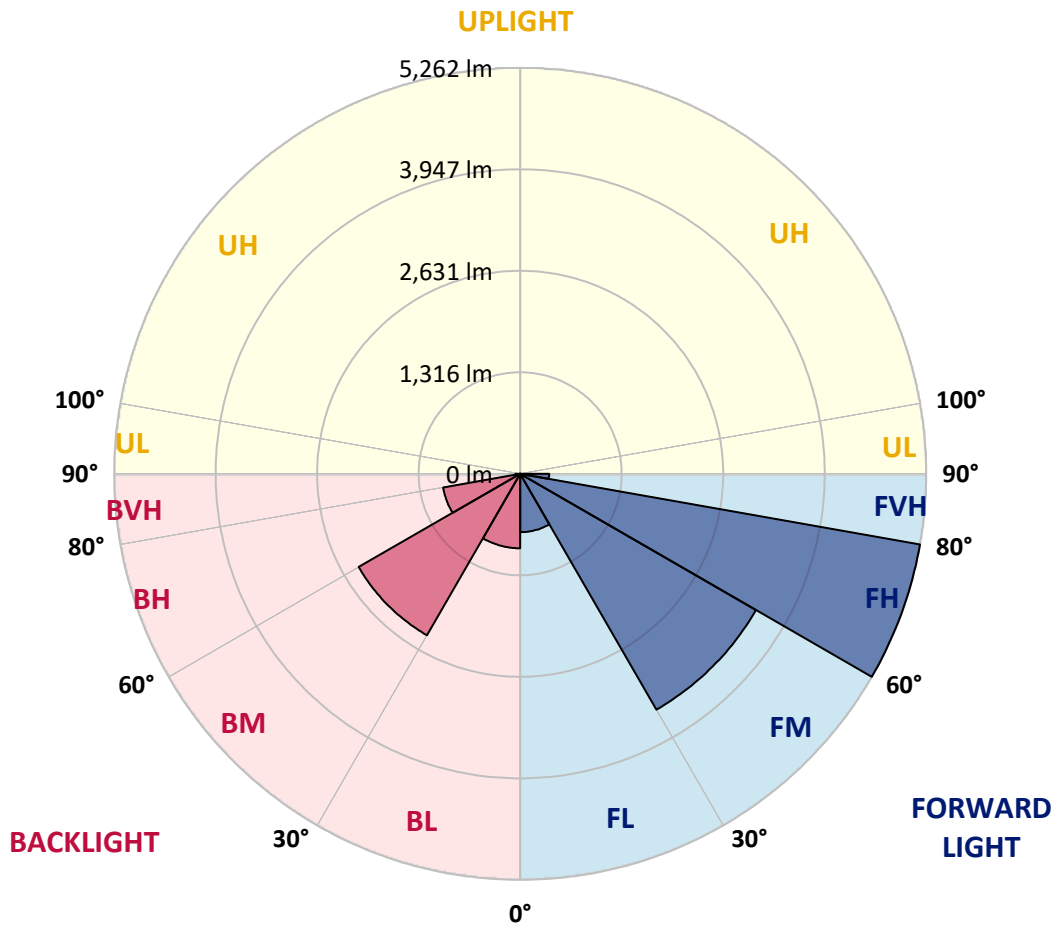
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	756.3	5.3			
FM (30°-60°)	3529.7	24.5			
FH (60°-80°)	5262.5	36.6			G3/7500
FVH (80°-90°)	375.3	2.6			G3/500
BL (0°-30°)	965.0	6.7	B2/1000		
BM (30°-60°)	2416.5	16.8	B2/2500		
BH (60°-80°)	1013.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	59.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium



REPORT NUMBER: P882944

CATALOG NUMBER: NAV-SB3A-760-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3
2.5°	1619.1	1628.2	1626.0	1622.9	1622.9	1623.7	1622.9	1628.2	1633.6	1638.9	1647.3
5°	1635.9	1645.0	1640.4	1636.6	1633.6	1632.8	1630.5	1629.8	1632.8	1639.7	1651.1
7.5°	1668.7	1677.8	1671.0	1664.1	1658.0	1654.9	1651.9	1647.3	1645.0	1648.8	1664.8
10°	1705.3	1714.4	1706.0	1693.8	1683.9	1680.1	1677.1	1672.5	1669.4	1671.7	1689.3
12.5°	1741.9	1751.0	1739.6	1722.8	1709.8	1707.6	1703.7	1702.2	1701.5	1700.7	1718.2
15°	1776.2	1783.8	1769.3	1749.5	1735.8	1732.0	1728.1	1730.4	1734.2	1738.8	1758.7
17.5°	1802.9	1810.5	1789.2	1763.2	1750.3	1748.7	1746.5	1754.1	1764.8	1776.2	1800.6
20°	1827.3	1834.9	1807.5	1772.4	1757.1	1757.1	1757.9	1773.9	1789.2	1805.9	1839.5
22.5°	1861.6	1867.7	1834.2	1786.1	1764.0	1765.5	1771.6	1787.6	1806.7	1829.6	1876.1
25°	1912.7	1917.3	1876.1	1812.0	1786.9	1791.4	1796.8	1804.4	1822.7	1849.4	1911.9
27.5°	1995.1	1998.9	1944.7	1857.8	1819.7	1827.3	1834.9	1829.6	1838.0	1860.8	1940.9
30°	2111.0	2113.3	2044.6	1929.5	1875.3	1879.2	1880.7	1858.6	1842.5	1860.8	1961.5
32.5°	2248.3	2247.5	2165.9	2016.4	1938.6	1934.8	1921.9	1878.4	1841.0	1857.0	1979.8
35°	2461.0	2452.7	2347.4	2138.5	2010.3	1986.7	1956.2	1900.5	1848.6	1853.2	1995.8
37.5°	2813.4	2787.5	2641.8	2338.3	2117.1	2056.8	2011.9	1936.3	1865.4	1851.7	2014.9
40°	3210.7	3177.9	3017.8	2612.1	2277.3	2180.4	2107.9	1987.4	1892.9	1858.6	2043.1
42.5°	3682.0	3635.5	3463.2	2934.6	2480.1	2339.8	2230.7	2052.3	1933.3	1880.7	2081.3
45°	4260.9	4199.1	3955.1	3298.4	2735.6	2548.8	2403.1	2150.7	1995.1	1923.4	2138.5
47.5°	4845.8	4861.1	4514.1	3714.8	3042.2	2806.5	2618.9	2298.6	2085.1	1992.0	2230.7
50°	5467.4	5478.1	5070.0	4176.2	3389.9	3097.9	2861.4	2464.1	2210.1	2089.6	2368.8
52.5°	5952.4	5954.0	5574.9	4659.0	3752.2	3418.2	3123.0	2653.2	2355.0	2219.3	2552.6
55°	6256.0	6252.1	5928.8	5115.8	4168.6	3754.5	3412.8	2868.3	2532.0	2371.8	2783.6
57.5°	6476.4	6464.9	6172.8	5508.6	4612.5	4151.8	3740.8	3112.3	2740.9	2553.3	3087.9
60°	6560.3	6553.4	6338.3	5847.9	5079.2	4591.1	4119.0	3385.4	2978.1	2767.6	3479.2
62.5°	6592.3	6605.2	6500.8	6176.6	5578.7	5077.7	4534.7	3711.8	3245.0	3010.2	3891.8
65°	6705.2	6728.8	6707.4	6606.8	6143.1	5647.4	5086.1	4100.0	3536.4	3270.2	4322.7
67.5°	6928.6	6952.3	6961.4	7121.6	6832.5	6357.4	5774.0	4583.5	3877.3	3540.2	4646.8
70°	6923.3	6916.4	7078.1	7531.1	7695.8	7340.4	6701.3	5178.3	4283.8	3764.4	4688.0
72.5°	6301.7	6246.8	6628.9	7526.5	8414.2	8367.0	7833.9	5945.6	4634.6	3791.9	4067.9
75°	4727.6	4581.2	5256.1	6782.9	8534.0	8949.6	8553.8	6421.5	4551.5	3350.3	2830.9
77.5°	2021.8	1874.6	2670.0	5021.2	7637.9	8366.2	7893.4	5602.4	3633.2	2215.5	1390.3
80°	529.3	528.5	806.9	2276.5	5194.4	6178.2	5420.1	3618.0	2075.9	791.6	383.6
82.5°	218.9	213.5	296.7	885.4	2538.1	3467.0	2829.4	1613.8	749.7	214.3	127.4
85°	81.6	80.8	144.1	305.8	895.3	1430.0	1034.9	412.6	186.8	104.5	57.2
87.5°	22.9	22.1	31.3	106.0	218.1	331.0	176.9	67.9	52.6	41.2	16.8
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: P882944
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3	1644.3
2.5°	1649.6	1653.4	1660.3	1665.6	1672.5	1680.1	1690.8	1697.6	1704.5	1709.1	1706.0
5°	1656.5	1664.8	1682.4	1699.9	1720.5	1739.6	1761.7	1777.7	1790.7	1794.5	1796.0
7.5°	1671.7	1685.4	1715.2	1744.9	1777.7	1809.0	1841.0	1868.5	1890.6	1899.0	1899.7
10°	1698.4	1716.7	1758.7	1800.6	1844.1	1892.1	1933.3	1973.0	2004.2	2017.2	2018.0
12.5°	1732.0	1754.8	1809.8	1867.7	1928.0	1994.3	2047.7	2096.5	2135.4	2152.9	2152.9
15°	1775.4	1805.2	1875.3	1953.1	2041.6	2133.9	2201.7	2255.9	2299.4	2320.7	2319.2
17.5°	1822.7	1862.4	1950.8	2068.3	2194.9	2316.1	2395.5	2435.1	2480.1	2500.7	2499.9
20°	1868.5	1917.3	2043.9	2214.7	2383.3	2512.1	2576.2	2586.9	2589.9	2592.2	2598.3
22.5°	1915.8	1981.3	2160.6	2399.3	2580.0	2669.2	2678.4	2632.6	2568.6	2538.8	2547.2
25°	1967.6	2054.6	2313.1	2602.9	2749.3	2760.0	2689.8	2578.5	2457.2	2401.6	2410.0
27.5°	2018.0	2139.2	2496.1	2797.4	2871.4	2777.5	2626.5	2468.7	2322.2	2263.5	2270.4
30°	2068.3	2236.1	2698.2	2967.4	2927.0	2734.1	2526.6	2350.5	2203.3	2141.5	2148.4
32.5°	2119.4	2348.9	2930.8	3090.2	2917.1	2641.8	2402.3	2217.8	2088.1	2023.3	2031.7
35°	2177.3	2487.7	3151.2	3157.3	2850.8	2506.0	2238.4	2059.1	1946.3	1894.4	1905.8
37.5°	2252.8	2663.9	3345.7	3174.1	2734.8	2307.0	2034.7	1871.5	1778.5	1754.8	1771.6
40°	2346.7	2875.9	3494.4	3147.4	2563.2	2065.2	1812.0	1681.6	1629.0	1634.3	1652.6
42.5°	2468.7	3113.1	3598.9	3078.8	2324.5	1815.9	1616.8	1558.8	1584.0	1605.4	1625.2
45°	2627.3	3359.4	3663.7	2962.1	2054.6	1604.6	1501.6	1515.4	1534.4	1536.7	1552.0
47.5°	2830.2	3608.8	3706.4	2785.9	1779.2	1455.9	1428.4	1431.5	1427.7	1411.7	1423.9
50°	3083.4	3851.3	3744.6	2552.6	1545.1	1362.8	1326.2	1315.6	1262.9	1211.1	1217.9
52.5°	3371.6	4074.0	3760.6	2262.8	1362.8	1285.1	1225.6	1158.5	1060.1	1044.1	1049.4
55°	3692.0	4280.0	3719.4	1906.6	1209.6	1185.1	1095.2	1014.3	1003.6	989.9	992.2
57.5°	4074.8	4501.9	3635.5	1509.3	1052.4	1068.5	980.8	989.9	970.8	949.5	945.7
60°	4493.5	4731.4	3488.3	1147.0	890.0	922.8	951.0	950.3	944.9	927.4	921.3
62.5°	4870.2	4882.4	3198.5	878.6	747.4	809.9	887.0	886.2	881.6	871.7	867.9
65°	5094.5	4859.6	2715.0	691.7	629.9	716.9	800.0	806.1	806.9	806.1	806.1
67.5°	5054.8	4591.9	2051.5	550.6	533.1	622.3	713.8	722.2	728.3	729.8	731.4
70°	4606.4	4003.9	1337.7	439.3	446.9	539.2	632.2	640.6	646.0	652.1	655.1
72.5°	3590.5	2943.8	765.7	355.4	371.4	467.5	551.4	561.3	564.4	575.8	580.4
75°	2188.0	1731.2	413.4	279.9	305.1	399.6	471.3	482.8	488.1	501.8	503.3
77.5°	1040.2	749.7	235.7	218.1	245.6	326.4	398.1	411.1	396.6	404.2	398.1
80°	351.6	278.4	148.7	166.3	187.6	254.7	318.8	331.7	301.2	299.7	296.7
82.5°	122.8	112.9	94.6	110.6	121.3	182.3	241.0	257.8	224.2	223.5	212.8
85°	48.0	45.8	52.6	60.2	72.5	112.1	158.6	167.0	138.0	111.3	109.8
87.5°	9.9	10.7	13.0	13.7	22.1	38.9	57.2	70.2	55.7	47.3	43.5
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)