

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: P883079

Luminaire Tested: **NAV-SB3B-730-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-730-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16637 lumens
Efficiency: N/A
Efficacy: 152.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

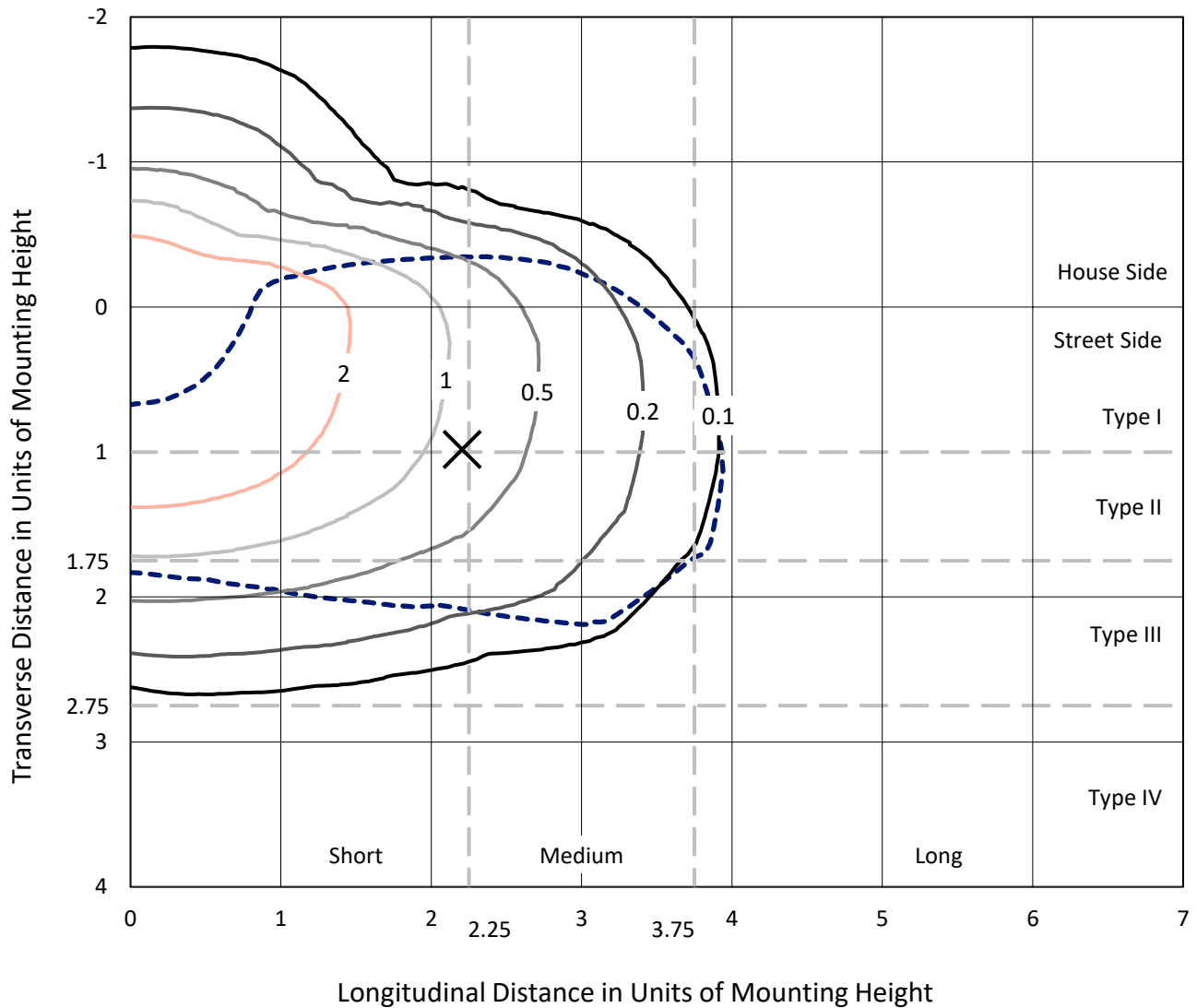
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

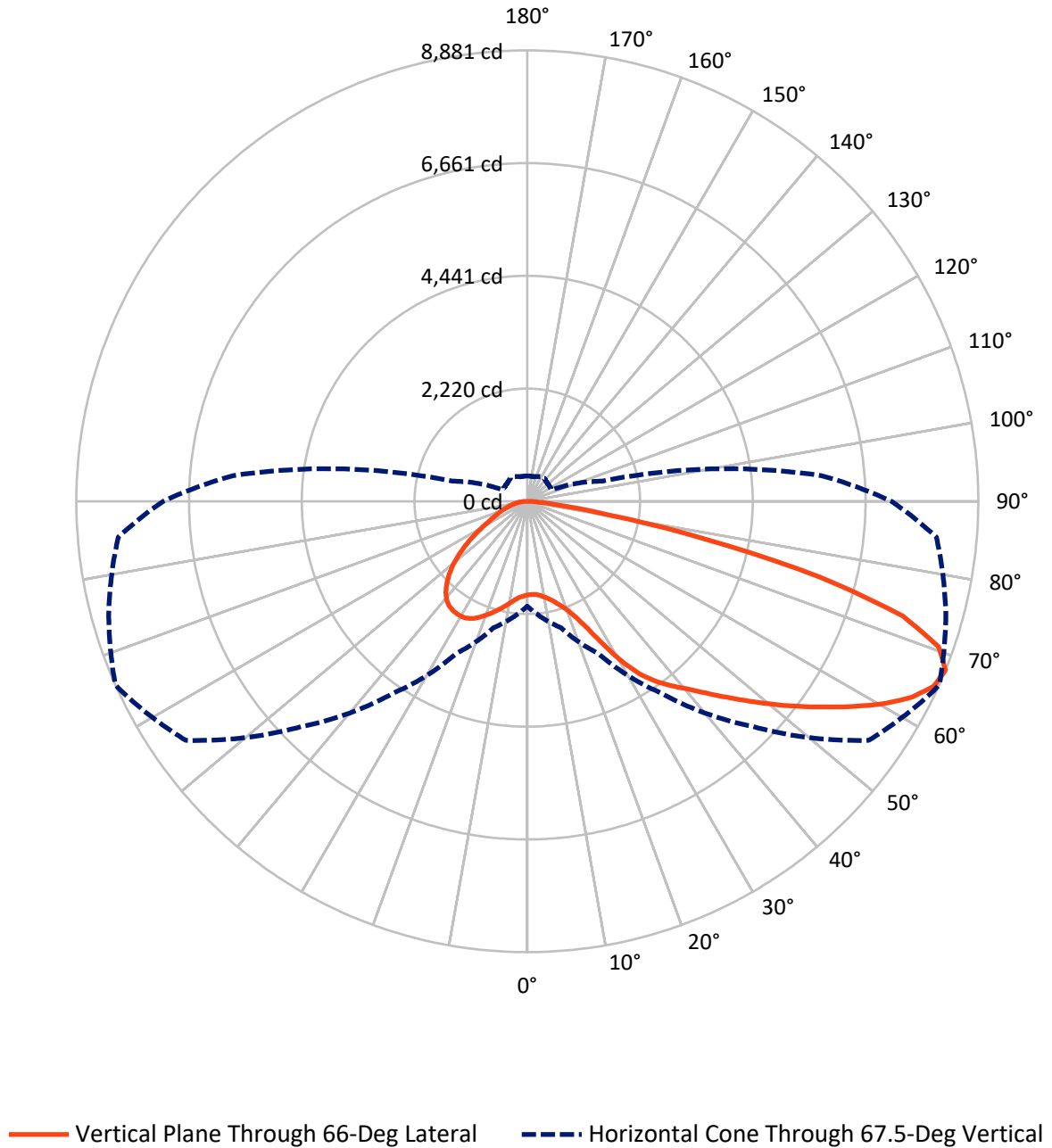
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4136.7	0.0	4136.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	12500.3	0.0	12500.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	16637.0	0.0	16637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	1.1
10°-20°	604.4	3.6
20°-30°	1165.0	7.0
30°-40°	2042.7	12.3
40°-50°	3036.9	18.3
50°-60°	3849.5	23.1
60°-70°	3766.7	22.6
70°-80°	1796.7	10.8
80°-90°	192.0	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°	16637.0	100.0
0°-180°	16637.0	100.0

Coefficient of Utilization



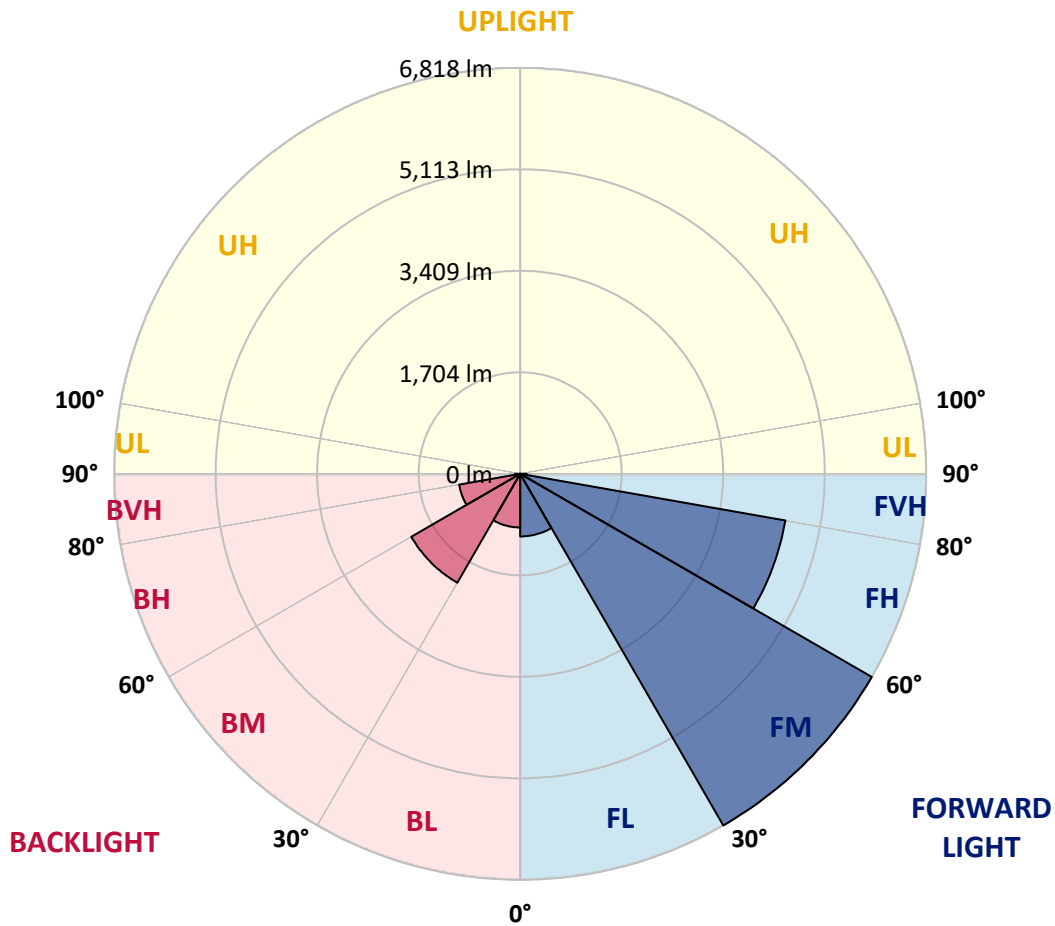
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1051.3	6.3			
FM (30°-60°)	6817.7	41.0			
FH (60°-80°)	4522.4	27.2			G2/5000
FVH (80°-90°)	108.9	0.7			G2/225
BL (0°-30°)	901.1	5.4	B2/1000		
BM (30°-60°)	2111.4	12.7	B2/2500		
BH (60°-80°)	1041.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	83.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3
2.5°	1826.0	1836.5	1833.9	1829.5	1828.7	1830.4	1833.0	1835.6	1834.8	1839.1	1846.1
5°	1820.8	1831.3	1830.4	1830.4	1833.9	1840.9	1845.3	1849.6	1845.3	1850.5	1860.1
7.5°	1824.3	1832.2	1835.6	1839.1	1847.9	1861.0	1871.5	1881.1	1875.9	1882.0	1894.2
10°	1868.9	1875.0	1878.5	1878.5	1884.6	1899.5	1909.9	1927.4	1923.1	1932.7	1948.4
12.5°	1950.2	1956.3	1956.3	1952.8	1957.2	1966.8	1970.3	1989.5	1981.6	1997.4	2013.1
15°	2049.8	2062.0	2052.4	2046.3	2048.1	2057.7	2056.8	2071.7	2063.8	2076.9	2090.9
17.5°	2159.9	2175.7	2159.9	2159.1	2155.6	2166.1	2166.9	2180.1	2166.1	2175.7	2185.3
20°	2290.2	2312.0	2298.9	2303.3	2295.4	2299.8	2304.2	2323.4	2301.6	2308.5	2305.9
22.5°	2473.8	2500.0	2486.0	2502.6	2497.4	2493.9	2493.0	2527.1	2493.0	2495.6	2470.3
25°	2741.2	2772.7	2748.2	2771.0	2771.0	2782.3	2795.4	2839.1	2782.3	2765.7	2700.2
27.5°	3136.3	3167.8	3119.7	3133.7	3129.3	3157.3	3143.3	3251.7	3190.5	3163.4	3031.4
30°	3611.9	3667.8	3576.9	3573.4	3569.0	3613.6	3633.7	3705.4	3643.3	3616.2	3457.1
32.5°	4125.8	4184.4	4076.0	4044.5	4027.9	4055.0	4038.4	4096.1	4053.3	4011.3	3814.7
35°	4669.5	4727.2	4624.1	4562.9	4496.5	4439.6	4380.2	4395.1	4354.9	4291.0	4087.4
37.5°	5183.5	5289.3	5180.0	5114.5	4992.1	4881.1	4715.0	4645.9	4608.4	4549.8	4344.4
40°	5707.1	5767.4	5684.4	5628.4	5495.6	5321.6	5055.9	4909.9	4859.2	4802.4	4628.5
42.5°	6092.6	6150.3	6105.7	6067.3	5963.2	5761.3	5417.8	5235.1	5161.7	5097.9	4950.1
45°	6398.5	6441.4	6413.4	6427.4	6382.8	6187.0	5792.8	5583.9	5507.8	5430.0	5313.8
47.5°	6521.8	6567.2	6611.8	6694.9	6770.9	6626.7	6195.7	5961.5	5881.1	5801.5	5687.0
50°	6507.8	6554.1	6683.5	6860.1	7096.1	7048.0	6620.6	6363.6	6289.3	6198.4	6092.6
52.5°	6395.9	6448.4	6614.5	6908.2	7284.0	7363.6	7053.3	6778.8	6708.9	6600.5	6494.7
55°	6102.2	6133.7	6382.8	6798.9	7328.6	7583.8	7477.2	7221.1	7151.2	6999.9	6884.6
57.5°	5557.6	5603.1	5965.9	6504.3	7216.7	7733.3	7849.6	7686.1	7618.8	7401.2	7280.5
60°	4847.0	4919.5	5334.7	6009.6	6931.8	7732.4	8187.9	8143.3	8087.3	7796.3	7670.4
62.5°	4042.8	4126.7	4526.2	5310.3	6433.5	7513.0	8399.4	8526.1	8497.3	8160.8	7999.9
65°	3104.9	3162.6	3560.3	4405.6	5658.2	7041.9	8423.9	8787.5	8792.8	8437.9	8172.1
67.5°	2067.3	2233.4	2578.6	3305.9	4619.7	6271.8	8208.8	8830.3	8881.0	8533.1	8085.6
70°	1008.7	1227.3	1565.5	2148.6	3305.9	5090.9	7646.8	8478.9	8591.7	8255.2	7569.9
72.5°	418.7	489.5	673.9	1060.3	1897.7	3435.3	6517.4	7526.2	7735.1	7314.6	6364.5
75°	282.3	305.9	385.5	543.7	864.5	1694.0	4700.1	5611.8	5948.4	5524.4	4515.7
77.5°	217.7	232.5	280.6	380.2	514.0	640.7	2515.7	3382.0	3555.9	3291.9	2349.6
80°	171.3	182.7	209.8	277.1	364.5	342.7	857.5	1532.3	1632.9	1369.7	755.2
82.5°	148.6	153.0	150.3	187.9	242.1	200.2	281.5	565.6	624.1	452.8	246.5
85°	107.5	119.8	125.0	116.3	128.5	101.4	115.4	200.2	220.3	196.7	139.0
87.5°	43.7	64.7	79.5	75.2	47.2	28.8	35.8	58.6	67.3	73.4	45.5
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°	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3
2.5°	1847.0	1853.1	1857.5	1862.7	1866.2	1871.5	1882.0	1888.1	1889.0	1893.3	1892.5
5°	1863.6	1872.4	1882.0	1896.0	1911.7	1924.8	1944.9	1958.9	1964.1	1968.5	1967.6
7.5°	1899.5	1911.7	1929.2	1953.7	1976.4	1993.9	2018.3	2034.9	2051.6	2057.7	2058.5
10°	1952.8	1970.3	1995.6	2028.8	2053.3	2076.0	2101.4	2115.4	2132.0	2139.0	2142.5
12.5°	2019.2	2037.6	2070.8	2117.1	2139.8	2155.6	2164.3	2160.8	2164.3	2170.4	2172.2
15°	2095.3	2115.4	2153.0	2202.8	2218.5	2204.5	2185.3	2167.8	2165.2	2166.9	2173.1
17.5°	2185.3	2200.2	2243.9	2285.8	2274.5	2216.8	2174.8	2146.8	2132.8	2128.5	2134.6
20°	2311.2	2311.2	2347.0	2373.2	2297.2	2199.3	2133.7	2088.3	2059.4	2047.2	2044.6
22.5°	2464.1	2450.2	2472.9	2454.5	2292.8	2150.3	2059.4	1980.8	1937.0	1919.6	1916.9
25°	2658.2	2641.6	2635.5	2521.8	2261.3	2072.5	1924.8	1829.5	1791.1	1781.5	1783.2
27.5°	2951.0	2909.1	2829.5	2558.5	2203.7	1950.2	1767.5	1679.2	1657.3	1658.2	1660.8
30°	3340.9	3257.0	3062.0	2564.7	2109.2	1777.1	1606.6	1543.7	1533.2	1537.6	1552.4
32.5°	3701.9	3622.3	3299.8	2536.7	1964.1	1607.5	1462.4	1420.4	1404.7	1410.0	1416.9
35°	3985.1	3963.3	3520.1	2497.4	1785.8	1448.4	1333.0	1297.2	1266.6	1259.6	1264.8
37.5°	4252.6	4243.8	3685.3	2442.3	1609.3	1335.7	1229.0	1181.8	1137.2	1112.8	1113.6
40°	4546.3	4537.5	3793.7	2357.5	1452.8	1237.8	1135.5	1073.4	1018.3	973.8	978.1
42.5°	4876.7	4825.1	3845.2	2236.0	1319.9	1154.7	1059.4	975.5	903.0	861.9	864.5
45°	5237.7	5121.5	3844.4	2081.3	1208.0	1078.7	978.1	859.3	792.0	753.5	751.7
47.5°	5620.6	5404.7	3797.2	1909.9	1099.6	994.7	852.3	761.4	716.8	693.2	687.9
50°	6015.7	5669.5	3716.7	1713.3	988.6	899.5	773.6	711.5	677.4	655.6	647.7
52.5°	6387.2	5909.9	3619.7	1490.4	875.9	806.8	738.6	690.6	654.7	630.2	619.7
55°	6732.5	6117.1	3482.5	1262.2	784.1	744.7	722.0	681.8	640.7	611.9	600.5
57.5°	7039.3	6251.7	3245.6	1048.1	718.5	701.9	704.5	667.0	619.7	595.3	579.5
60°	7294.5	6350.5	2895.1	849.6	665.2	660.0	677.4	639.0	583.9	555.9	543.7
62.5°	7447.5	6348.7	2465.0	695.8	619.7	621.5	641.6	604.0	548.1	521.8	514.0
65°	7434.4	6193.1	1993.0	595.3	576.0	577.8	604.0	565.6	518.4	502.6	501.7
67.5°	7171.3	5813.8	1528.8	529.7	528.0	535.8	566.4	539.3	500.0	498.2	500.9
70°	6458.9	5026.2	1101.4	477.3	478.1	489.5	529.7	522.7	490.4	493.9	493.0
72.5°	5179.1	3832.1	739.5	422.2	423.1	441.4	494.8	509.6	480.8	527.1	534.1
75°	3449.3	2389.8	475.5	363.6	364.5	388.1	464.2	484.3	454.5	525.3	529.7
77.5°	1657.3	1074.3	344.4	305.9	305.9	327.8	401.2	433.6	387.2	408.2	374.1
80°	572.5	403.8	271.0	246.5	241.3	256.1	338.3	375.9	333.9	307.7	288.5
82.5°	225.5	209.8	217.7	191.4	173.9	183.6	263.1	310.3	245.6	222.0	221.2
85°	129.4	136.4	153.8	126.7	100.5	112.8	193.2	222.9	185.3	163.5	167.0
87.5°	35.0	48.1	70.8	65.6	45.5	48.1	91.8	123.3	106.6	82.2	84.8
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)