

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: P963987

Luminaire Tested: **NAV-SB3B-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963987
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-SB3B-727-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16073 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

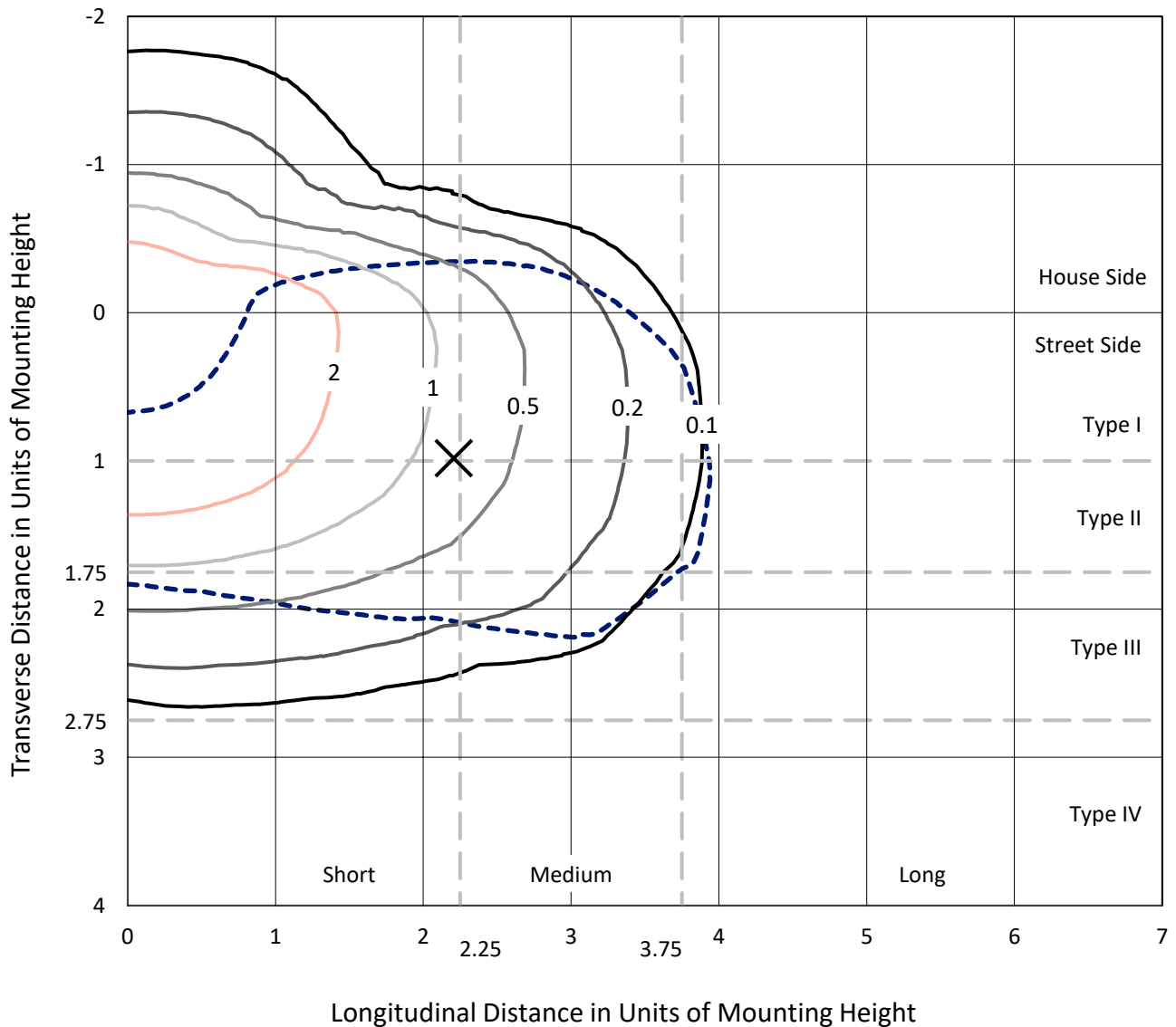
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

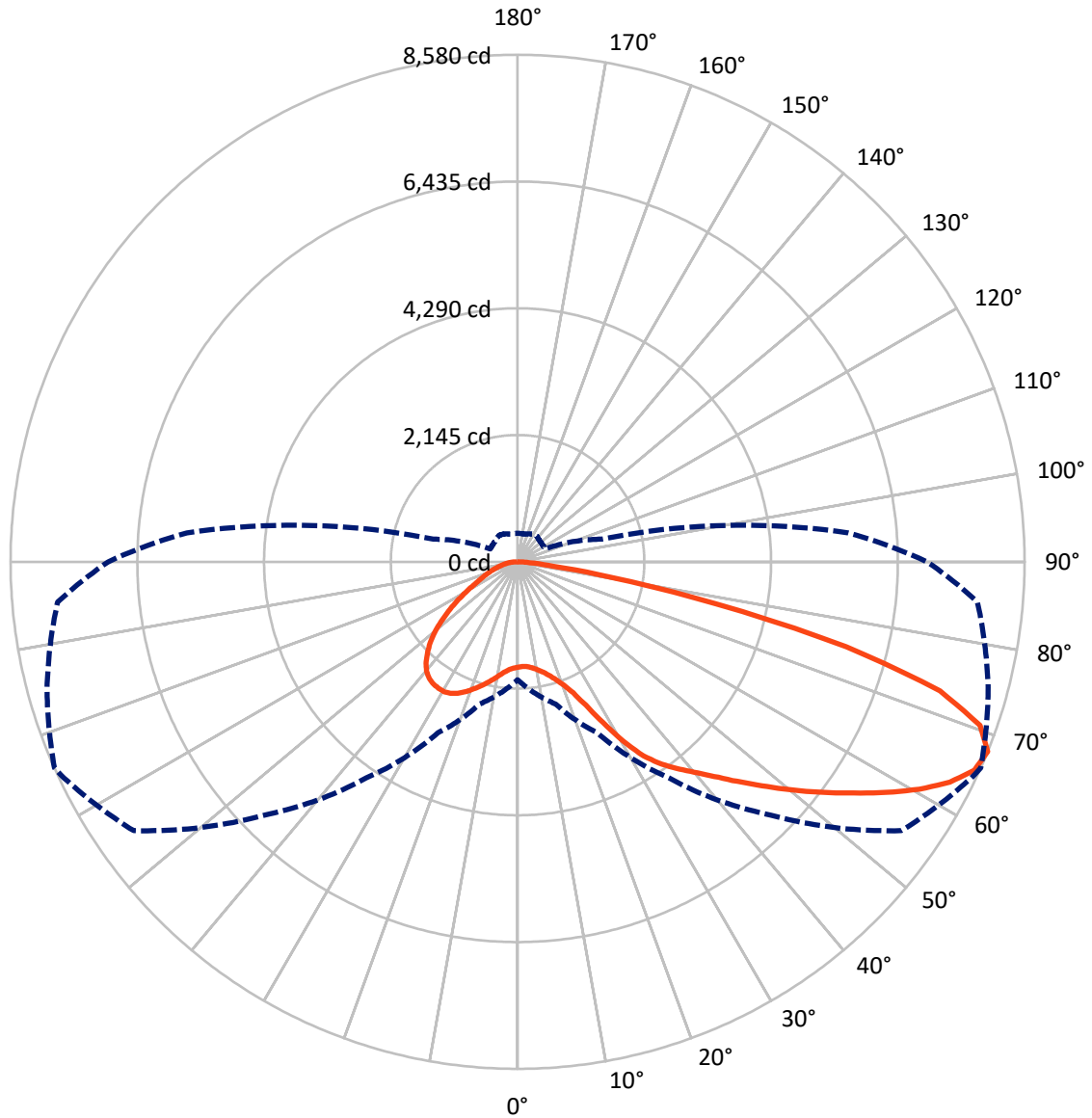
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	3996.5	0.0	3996.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	12076.5	0.0	12076.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	16073.0	0.0	16073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	1.1
10°-20°	584.0	3.6
20°-30°	1125.5	7.0
30°-40°	1973.5	12.3
40°-50°	2933.9	18.3
50°-60°	3719.0	23.1
60°-70°	3639.0	22.6
70°-80°	1735.8	10.8
80°-90°	185.5	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°	16073.0	100.0
0°-180°	16073.0	100.0

Coefficient of Utilization



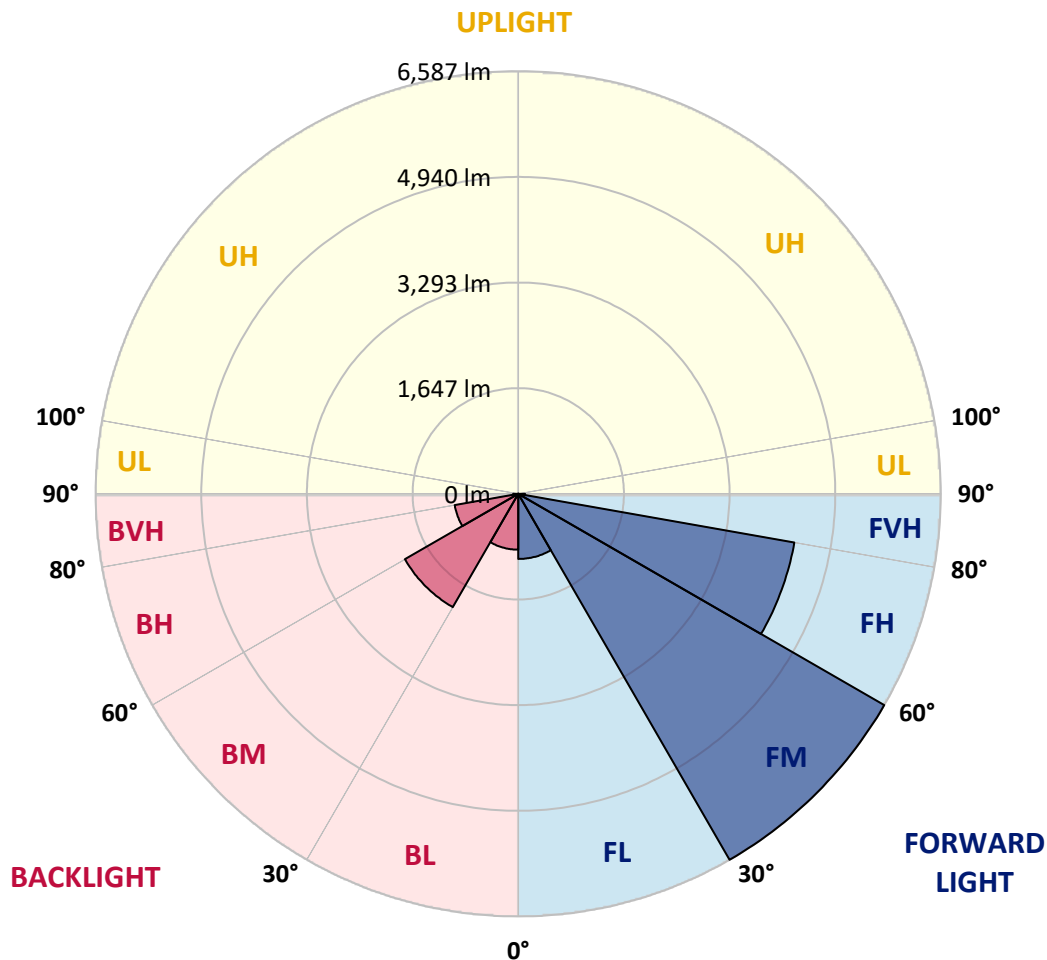
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1015.7	6.3			
FM (30°-60°)	6586.6	41.0			
FH (60°-80°)	4369.1	27.2			G2/5000
FVH (80°-90°)	105.2	0.7			G2/225
BL (0°-30°)	870.6	5.4	B2/1000		
BM (30°-60°)	2039.9	12.7	B2/2500		
BH (60°-80°)	1005.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	80.3	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°	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7
2.5°	1764.1	1774.3	1771.7	1767.5	1766.7	1768.3	1770.9	1773.5	1772.5	1776.8	1783.6
5°	1759.1	1769.2	1768.3	1768.3	1771.7	1778.5	1782.7	1786.9	1782.7	1787.8	1797.0
7.5°	1762.5	1770.1	1773.5	1776.8	1785.2	1798.0	1808.0	1817.3	1812.3	1818.1	1830.0
10°	1805.5	1811.4	1814.8	1814.8	1820.7	1835.1	1845.2	1862.1	1857.9	1867.1	1882.3
12.5°	1884.1	1890.0	1890.0	1886.6	1890.8	1900.1	1903.4	1922.1	1914.5	1929.7	1944.8
15°	1980.3	1992.2	1982.9	1976.9	1978.7	1987.9	1987.1	2001.4	1993.8	2006.5	2020.0
17.5°	2086.7	2102.0	2086.7	2085.9	2082.5	2092.6	2093.5	2106.2	2092.6	2102.0	2111.2
20°	2212.6	2233.7	2221.0	2225.2	2217.6	2221.9	2226.1	2244.6	2223.5	2230.3	2227.7
22.5°	2389.9	2415.2	2401.7	2417.8	2412.7	2409.4	2408.4	2441.4	2408.4	2411.0	2386.5
25°	2648.3	2678.7	2655.1	2677.0	2677.0	2688.0	2700.7	2742.9	2688.0	2672.0	2608.6
27.5°	3030.0	3060.4	3014.0	3027.4	3023.2	3050.3	3036.8	3141.5	3082.4	3056.2	2928.6
30°	3489.4	3543.4	3455.7	3452.3	3448.0	3491.2	3510.5	3579.8	3519.8	3493.6	3340.0
32.5°	3986.0	4042.6	3937.8	3907.4	3891.4	3917.6	3901.6	3957.2	3915.9	3875.3	3685.4
35°	4511.2	4567.0	4467.4	4408.2	4344.1	4289.1	4231.7	4246.1	4207.2	4145.6	3948.8
37.5°	5007.8	5110.0	5004.5	4941.1	4822.8	4715.6	4555.2	4488.5	4452.1	4395.5	4197.1
40°	5513.7	5571.9	5491.7	5437.6	5309.3	5141.2	4884.5	4743.5	4694.5	4639.6	4471.6
42.5°	5886.1	5941.8	5898.8	5861.6	5761.1	5566.1	5234.2	5057.7	4986.7	4925.0	4782.3
45°	6181.7	6223.0	6196.0	6209.6	6166.4	5977.3	5596.4	5394.6	5321.1	5246.0	5133.6
47.5°	6300.7	6344.6	6387.7	6468.0	6541.3	6402.0	5985.7	5759.4	5681.7	5604.9	5494.2
50°	6287.2	6331.9	6457.0	6627.5	6855.5	6809.1	6396.1	6147.8	6076.1	5988.3	5886.1
52.5°	6179.1	6229.7	6390.3	6674.0	7037.1	7113.9	6814.2	6549.0	6481.4	6376.7	6274.5
55°	5895.4	5925.7	6166.4	6568.4	7080.2	7326.8	7223.7	6976.3	6908.7	6762.6	6651.2
57.5°	5369.3	5413.1	5763.6	6283.9	6972.0	7471.1	7583.5	7425.6	7360.5	7150.3	7033.8
60°	4682.7	4752.7	5153.9	5805.8	6696.7	7470.3	7910.3	7867.3	7813.2	7532.0	7410.3
62.5°	3905.8	3986.8	4372.8	5130.2	6215.4	7258.3	8114.7	8237.1	8209.2	7884.1	7728.7
65°	2999.7	3055.3	3439.6	4256.2	5466.3	6803.2	8138.3	8489.7	8494.7	8151.8	7895.1
67.5°	1997.2	2157.6	2491.3	3193.8	4463.2	6059.2	7930.5	8531.0	8580.0	8243.9	7811.5
70°	974.6	1185.6	1512.5	2075.7	3193.8	4918.3	7387.6	8191.5	8300.4	7975.3	7313.3
72.5°	404.5	472.9	651.1	1024.4	1833.4	3318.8	6296.5	7271.0	7472.9	7066.7	6148.7
75°	272.8	295.6	372.4	525.3	835.2	1636.6	4540.9	5421.6	5746.8	5337.2	4362.6
77.5°	210.2	224.7	271.1	367.4	496.5	619.0	2430.5	3267.3	3435.4	3180.4	2270.0
80°	165.5	176.5	202.6	267.7	352.2	331.1	828.4	1480.4	1577.5	1323.3	729.6
82.5°	143.6	147.8	145.2	181.5	233.9	193.4	271.9	546.4	603.0	437.5	238.1
85°	103.8	115.7	120.7	112.3	124.1	98.0	111.5	193.4	212.8	190.0	134.3
87.5°	42.2	62.5	76.9	72.7	45.6	27.9	34.6	56.6	65.0	70.9	43.9
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°	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7
2.5°	1784.4	1790.3	1794.6	1799.6	1803.0	1808.0	1818.1	1824.1	1824.9	1829.1	1828.3
5°	1800.4	1808.9	1818.1	1831.7	1846.8	1859.6	1879.0	1892.5	1897.6	1901.8	1901.0
7.5°	1835.1	1846.8	1863.8	1887.4	1909.4	1926.3	1950.0	1966.0	1982.0	1987.9	1988.8
10°	1886.6	1903.4	1927.9	1960.0	1983.7	2005.6	2030.1	2043.6	2059.7	2066.5	2069.9
12.5°	1950.8	1968.5	2000.6	2045.4	2067.3	2082.5	2090.9	2087.6	2090.9	2096.8	2098.6
15°	2024.3	2043.6	2079.9	2128.1	2143.3	2129.7	2111.2	2094.3	2091.8	2093.5	2099.4
17.5°	2111.2	2125.5	2167.8	2208.4	2197.4	2141.6	2101.0	2074.1	2060.6	2056.4	2062.2
20°	2232.9	2232.9	2267.4	2292.8	2219.3	2124.7	2061.4	2017.5	1989.6	1977.7	1975.3
22.5°	2380.6	2367.1	2389.1	2371.3	2215.1	2077.5	1989.6	1913.6	1871.3	1854.5	1852.0
25°	2568.0	2552.0	2546.1	2436.3	2184.7	2002.2	1859.6	1767.5	1730.3	1721.1	1722.7
27.5°	2850.9	2810.4	2733.6	2471.8	2128.9	1884.1	1707.5	1622.3	1601.2	1602.0	1604.5
30°	3227.6	3146.5	2958.3	2477.7	2037.7	1716.9	1552.2	1491.4	1481.2	1485.4	1499.8
32.5°	3576.4	3499.6	3188.0	2450.7	1897.6	1553.0	1412.9	1372.3	1357.1	1362.1	1368.9
35°	3850.0	3828.9	3400.7	2412.7	1725.3	1399.3	1287.8	1253.3	1223.6	1216.9	1222.0
37.5°	4108.4	4100.0	3560.3	2359.4	1554.7	1290.4	1187.4	1141.7	1098.7	1075.0	1075.8
40°	4392.1	4383.7	3665.1	2277.5	1403.5	1195.8	1097.0	1037.0	983.8	940.7	944.9
42.5°	4711.4	4661.6	3714.9	2160.2	1275.2	1115.6	1023.6	942.5	872.4	832.7	835.2
45°	5060.1	4947.9	3714.1	2010.7	1167.1	1042.1	944.9	830.1	765.1	728.0	726.2
47.5°	5430.0	5221.5	3668.5	1845.2	1062.4	961.0	823.4	735.5	692.5	669.6	664.6
50°	5811.7	5477.3	3590.8	1655.2	955.1	869.0	747.3	687.4	654.5	633.3	625.8
52.5°	6170.7	5709.6	3497.0	1439.8	846.1	779.4	713.6	667.2	632.5	608.8	598.7
55°	6504.2	5909.7	3364.5	1219.4	757.5	719.6	697.5	658.7	619.0	591.1	580.2
57.5°	6800.7	6039.8	3135.6	1012.5	694.1	678.1	680.7	644.3	598.7	575.1	559.9
60°	7047.3	6135.2	2796.9	820.8	642.7	637.6	654.5	617.4	564.2	537.1	525.3
62.5°	7195.0	6133.5	2381.5	672.2	598.7	600.4	619.8	583.5	529.5	504.2	496.5
65°	7182.4	5983.2	1925.5	575.1	556.5	558.2	583.5	546.4	500.8	485.5	484.7
67.5°	6928.2	5616.7	1477.0	511.8	510.0	517.6	547.2	521.0	483.1	481.3	483.9
70°	6239.9	4855.8	1064.1	461.0	462.0	472.9	511.8	505.0	473.8	477.1	476.3
72.5°	5003.5	3702.2	714.4	407.8	408.8	426.5	478.0	492.3	464.4	509.2	516.0
75°	3332.4	2308.8	459.4	351.3	352.2	374.9	448.4	467.8	439.1	507.6	511.8
77.5°	1601.2	1037.9	332.7	295.6	295.6	316.7	387.7	418.8	374.1	394.4	361.4
80°	553.1	390.1	261.8	238.1	233.1	247.4	326.8	363.2	322.6	297.2	278.7
82.5°	217.9	202.6	210.2	184.9	168.1	177.3	254.2	299.8	237.3	214.5	213.6
85°	124.9	131.7	148.6	122.5	97.1	109.0	186.7	215.4	179.1	158.0	161.3
87.5°	33.8	46.4	68.4	63.3	43.9	46.4	88.7	119.1	103.0	79.3	81.9
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)