

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: P964676

Luminaire Tested: **NAV-SB3C-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

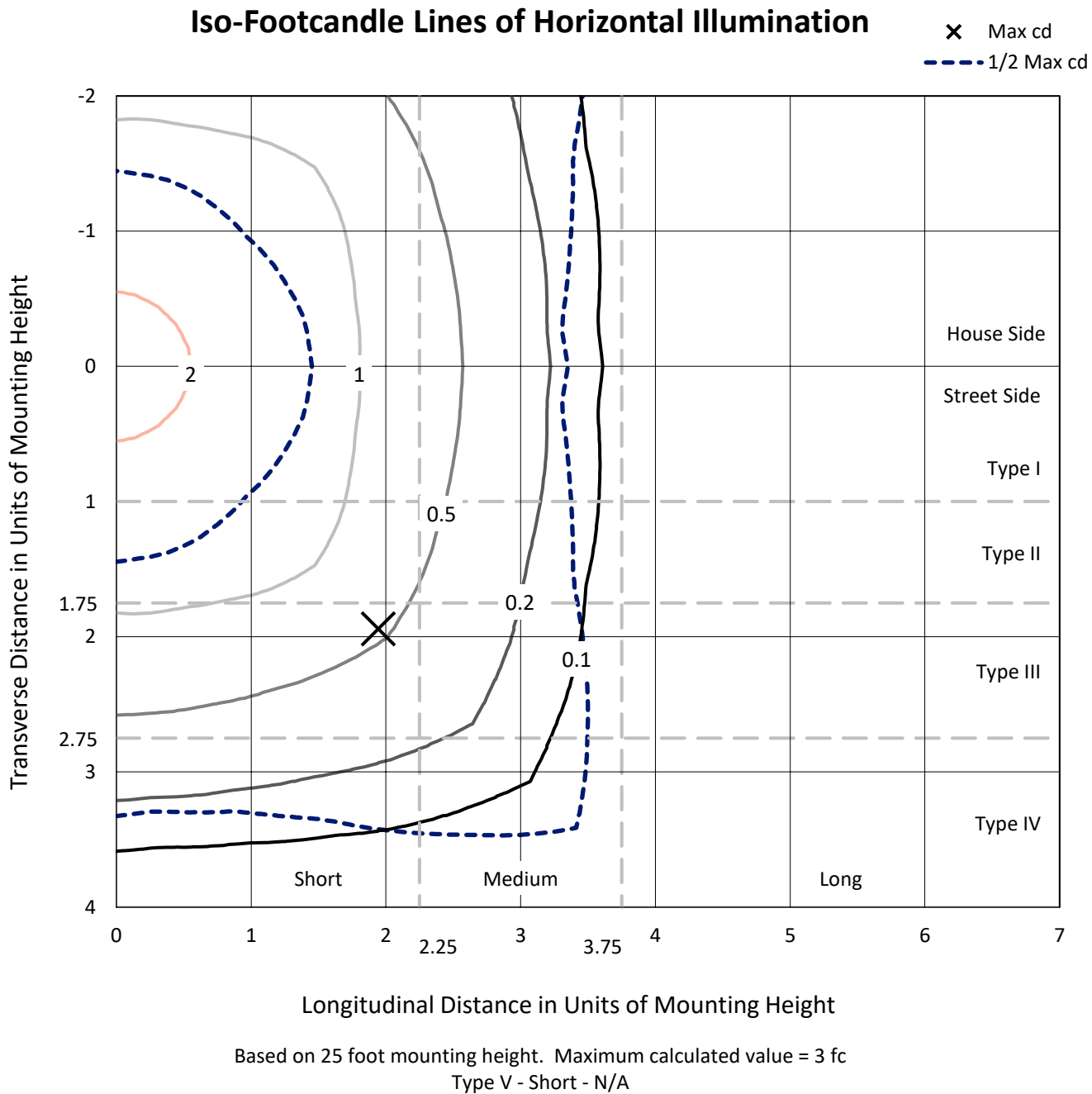
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20258.1 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 149.1
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

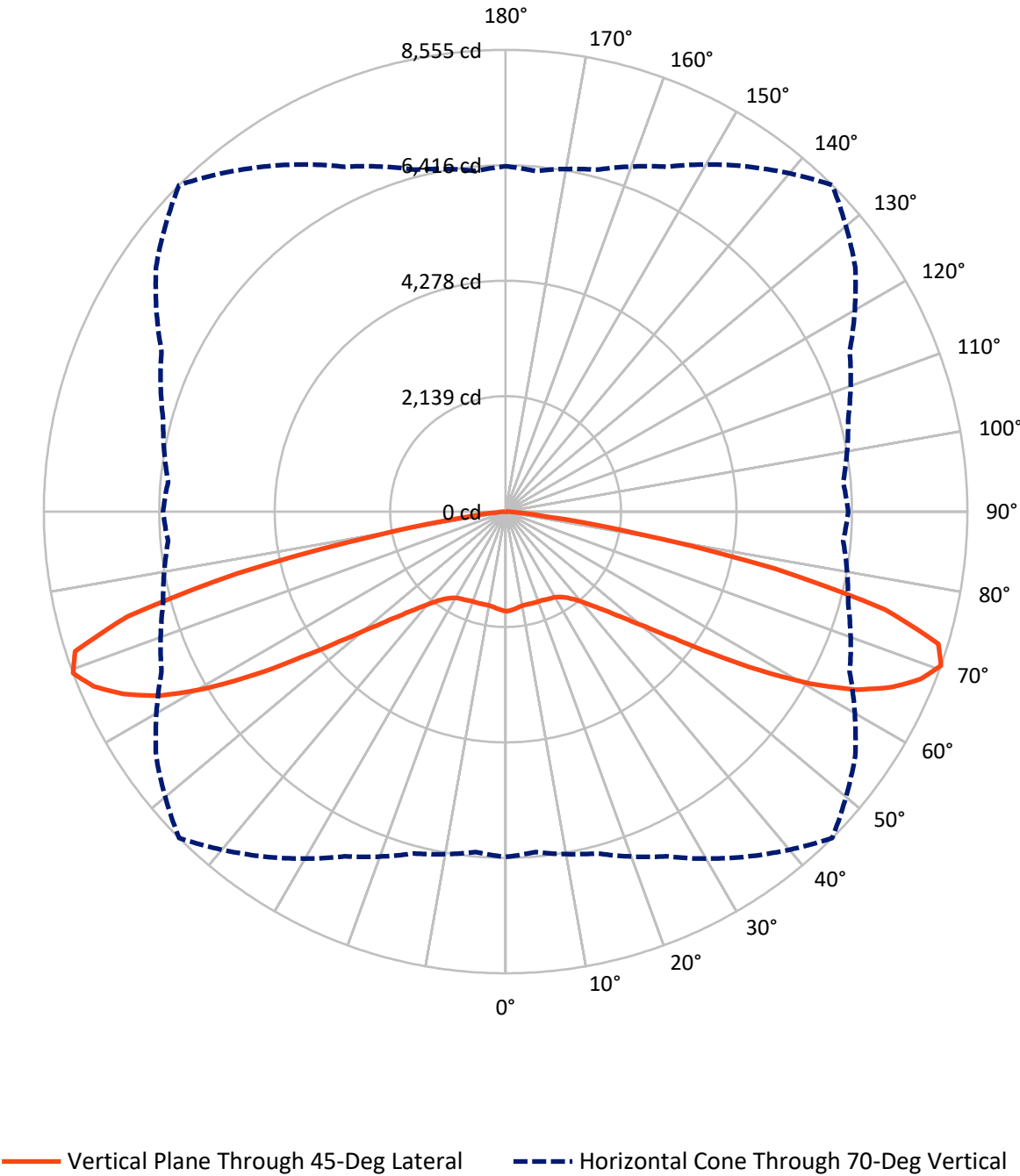


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Luminous Intensity Polar Plot



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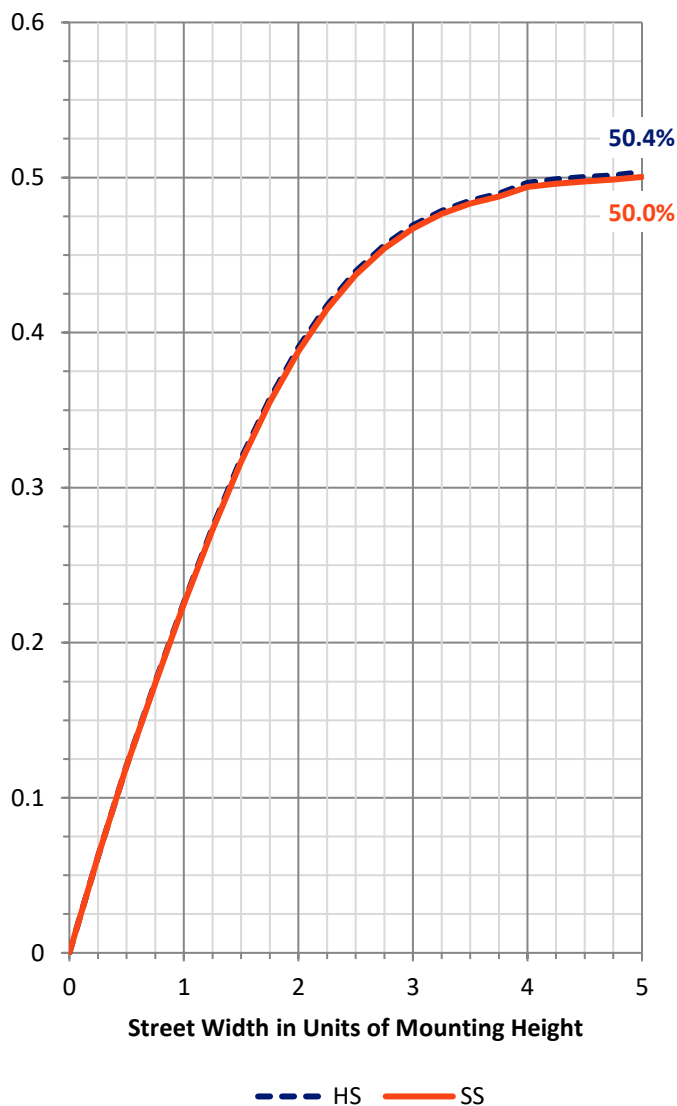
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10129.0	0.0	10129.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10129.0	0.0	10129.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20258.1	0.0	20258.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	0.8
10°-20°	504.7	2.5
20°-30°	840.0	4.1
30°-40°	1270.3	6.3
40°-50°	2110.9	10.4
50°-60°	3983.2	19.7
60°-70°	6725.9	33.2
70°-80°	4419.6	21.8
80°-90°	231.5	1.1
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°	20258.1	100.0
0°-180°	20258.1	100.0

Coefficient of Utilization



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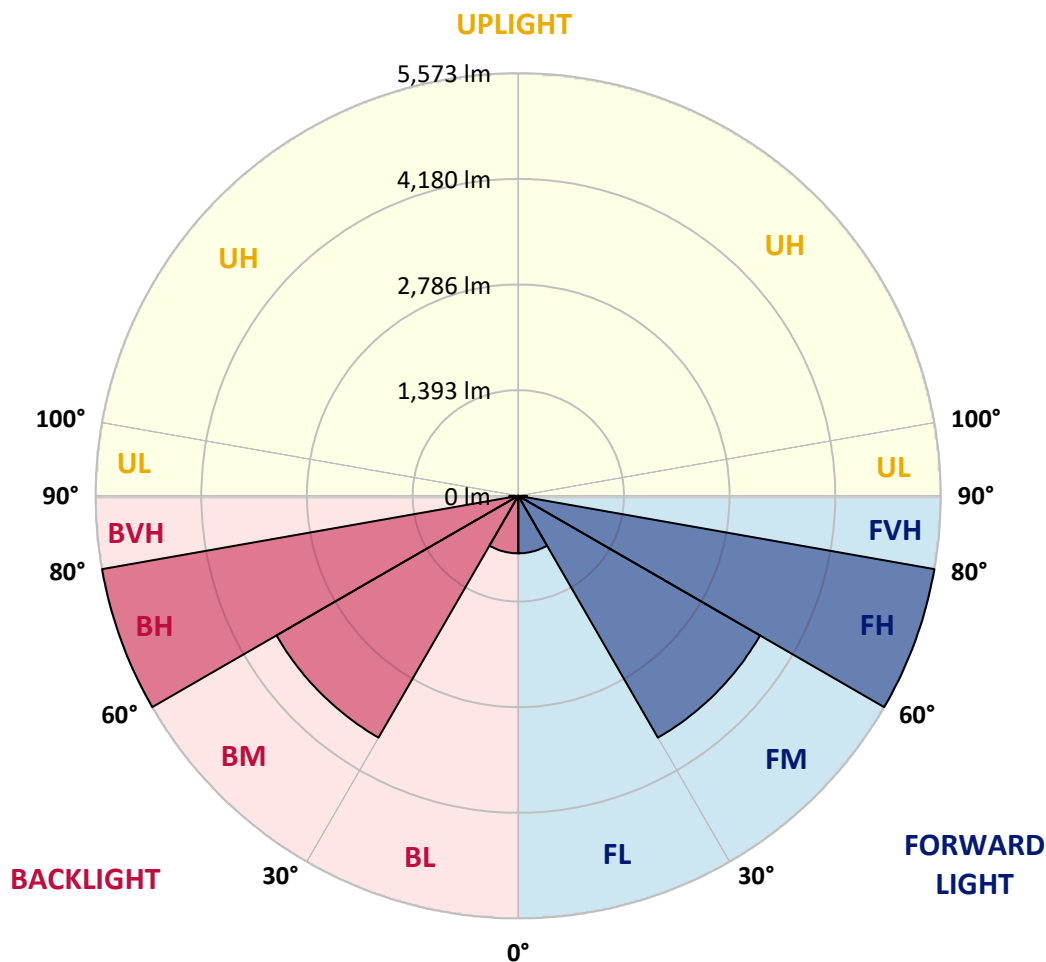
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	758.3	3.7			
FM	(30°-60°)	3682.2	18.2			
FH	(60°-80°)	5572.7	27.5			G3/7500
FVH	(80°-90°)	115.8	0.6			G2/225
BL	(0°-30°)	758.3	3.7	B2/1000		
BM	(30°-60°)	3682.2	18.2	B3/5000		
BH	(60°-80°)	5572.7	27.5	B5		G3/7500
BVH	(80°-90°)	115.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0	1848.0
2.5°	1836.4	1841.6	1839.6	1835.3	1835.3	1832.2	1835.3	1837.4	1840.6	1842.6	1841.6
5°	1812.1	1816.4	1815.3	1812.1	1813.2	1810.0	1812.1	1815.3	1817.4	1818.5	1818.5
7.5°	1791.1	1795.3	1793.2	1787.9	1787.9	1784.7	1785.9	1788.9	1792.1	1793.2	1793.2
10°	1785.9	1790.1	1783.7	1775.3	1772.1	1767.9	1768.9	1772.1	1778.5	1781.7	1781.7
12.5°	1787.9	1791.1	1784.7	1772.1	1768.9	1764.7	1764.7	1767.9	1776.3	1780.5	1781.7
15°	1794.3	1797.4	1787.9	1774.3	1771.1	1767.9	1766.9	1771.1	1780.5	1787.9	1788.9
17.5°	1805.8	1809.0	1794.3	1775.3	1771.1	1772.1	1771.1	1774.3	1788.9	1802.7	1802.7
20°	1816.4	1818.5	1798.5	1775.3	1771.1	1772.1	1771.1	1777.4	1796.3	1815.3	1816.4
22.5°	1819.5	1821.6	1802.7	1782.7	1779.5	1780.5	1779.5	1785.9	1803.7	1822.7	1822.7
25°	1820.6	1823.7	1809.0	1793.2	1798.5	1800.5	1798.5	1799.5	1813.2	1830.0	1829.0
27.5°	1836.4	1840.6	1826.9	1813.2	1816.4	1815.3	1818.5	1821.6	1832.2	1849.0	1844.8
30°	1869.0	1872.2	1860.6	1846.8	1844.8	1837.4	1846.8	1857.4	1869.0	1883.7	1880.6
32.5°	1922.7	1929.0	1914.3	1899.5	1890.1	1885.9	1893.2	1911.1	1926.9	1942.7	1936.4
35°	2012.2	2016.4	2002.7	1975.4	1958.5	1958.5	1964.8	1988.0	2013.3	2033.3	2025.9
37.5°	2138.6	2143.8	2119.6	2087.0	2061.7	2061.7	2070.1	2094.4	2132.2	2160.7	2150.1
40°	2292.3	2299.7	2269.1	2235.4	2211.2	2207.0	2217.5	2245.0	2280.7	2316.5	2304.9
42.5°	2477.6	2486.0	2446.1	2416.5	2397.6	2397.6	2402.9	2428.1	2460.8	2505.0	2501.8
45°	2714.5	2729.3	2674.5	2645.0	2627.2	2631.4	2634.6	2656.6	2686.1	2736.6	2734.5
47.5°	2996.7	3011.4	2953.5	2923.0	2919.8	2939.9	2927.2	2943.0	2958.9	3016.8	2999.9
50°	3316.8	3342.1	3302.0	3300.0	3306.3	3343.1	3313.6	3322.1	3304.2	3341.1	3319.0
52.5°	3708.6	3745.3	3738.0	3750.7	3821.2	3897.0	3829.6	3800.2	3732.7	3744.3	3705.4
55°	4183.4	4239.2	4249.8	4325.6	4485.6	4640.4	4497.2	4378.2	4235.0	4208.6	4167.6
57.5°	4723.6	4767.8	4818.3	4973.1	5272.2	5547.0	5272.2	5009.0	4783.6	4729.9	4692.0
60°	5304.8	5359.6	5408.0	5636.5	6080.8	6467.2	6072.4	5654.4	5356.4	5283.8	5220.5
62.5°	5929.2	5999.7	6033.5	6287.2	6805.3	7266.5	6812.7	6306.2	5975.5	5897.6	5834.5
65°	6528.3	6586.2	6624.2	6894.8	7389.6	7851.9	7423.4	6924.3	6584.2	6482.0	6431.5
67.5°	6807.4	6839.0	6931.7	7238.0	7760.3	8287.8	7848.7	7270.7	6890.6	6711.6	6713.6
70°	6398.9	6334.6	6557.8	7048.5	7804.6	8555.3	7905.6	7033.8	6568.4	6277.7	6347.2
72.5°	4944.7	4834.1	5221.7	6060.8	7299.1	8384.7	7349.7	6108.2	5462.7	4873.1	5019.4
75°	2690.3	2565.1	3099.9	4161.3	5820.8	7267.6	5954.5	4280.3	3451.6	2670.3	2844.1
77.5°	759.2	711.8	1143.5	2013.3	3501.1	5102.7	3635.9	2057.5	1356.2	804.4	894.0
80°	232.7	225.3	305.3	606.5	1486.8	2443.9	1428.8	613.9	388.6	245.4	259.0
82.5°	138.0	126.4	151.6	221.1	379.0	767.6	368.5	230.6	185.3	124.2	134.8
85°	78.9	73.7	89.5	107.4	127.4	163.2	106.4	109.5	99.0	66.3	69.5
87.5°	32.6	29.5	34.7	33.7	29.5	37.9	28.4	33.7	40.0	26.3	24.2
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)