

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: P882579

Luminaire Tested: **NAV-SB2C-735-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882579
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-SB2C-735-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15274 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

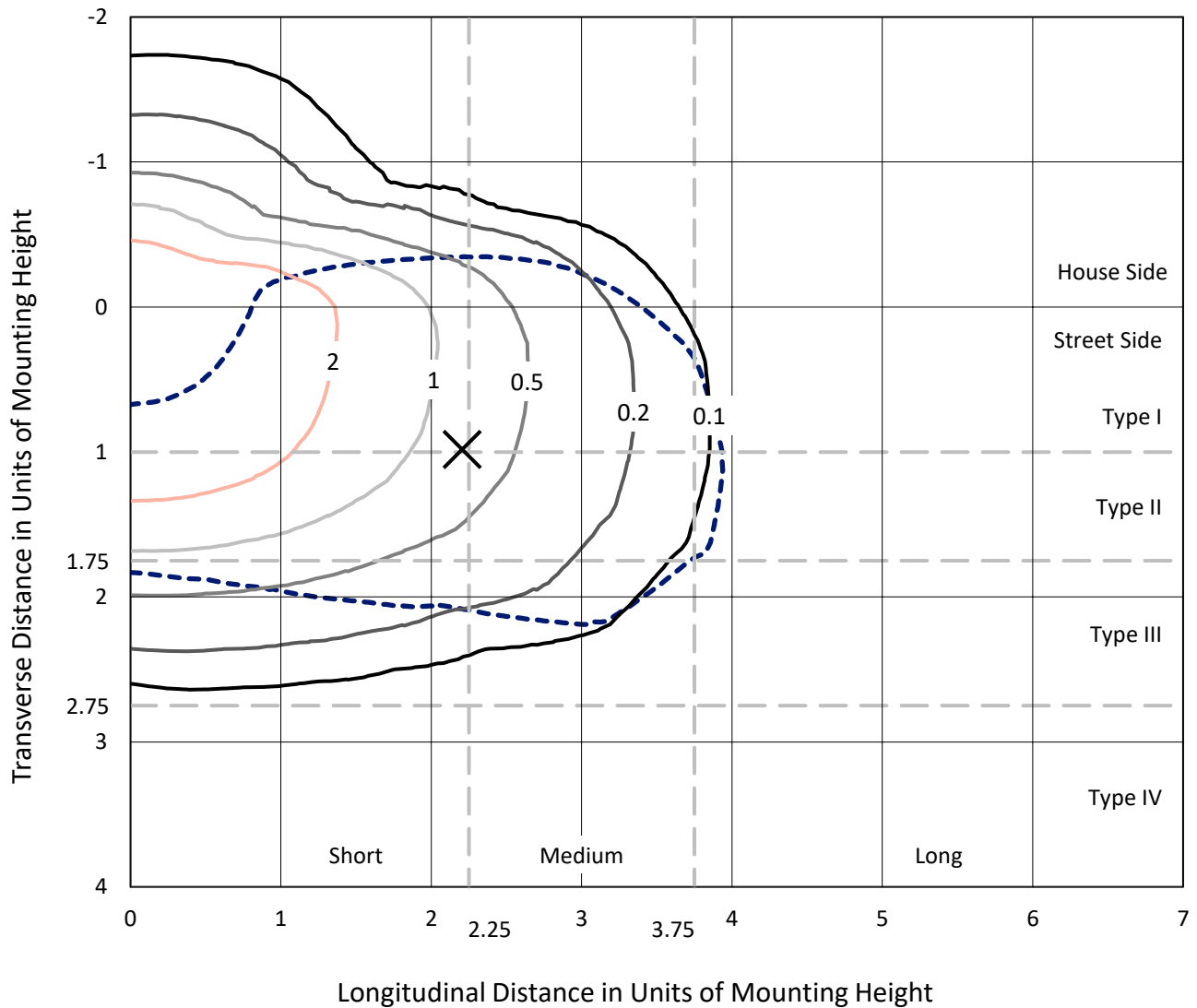
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

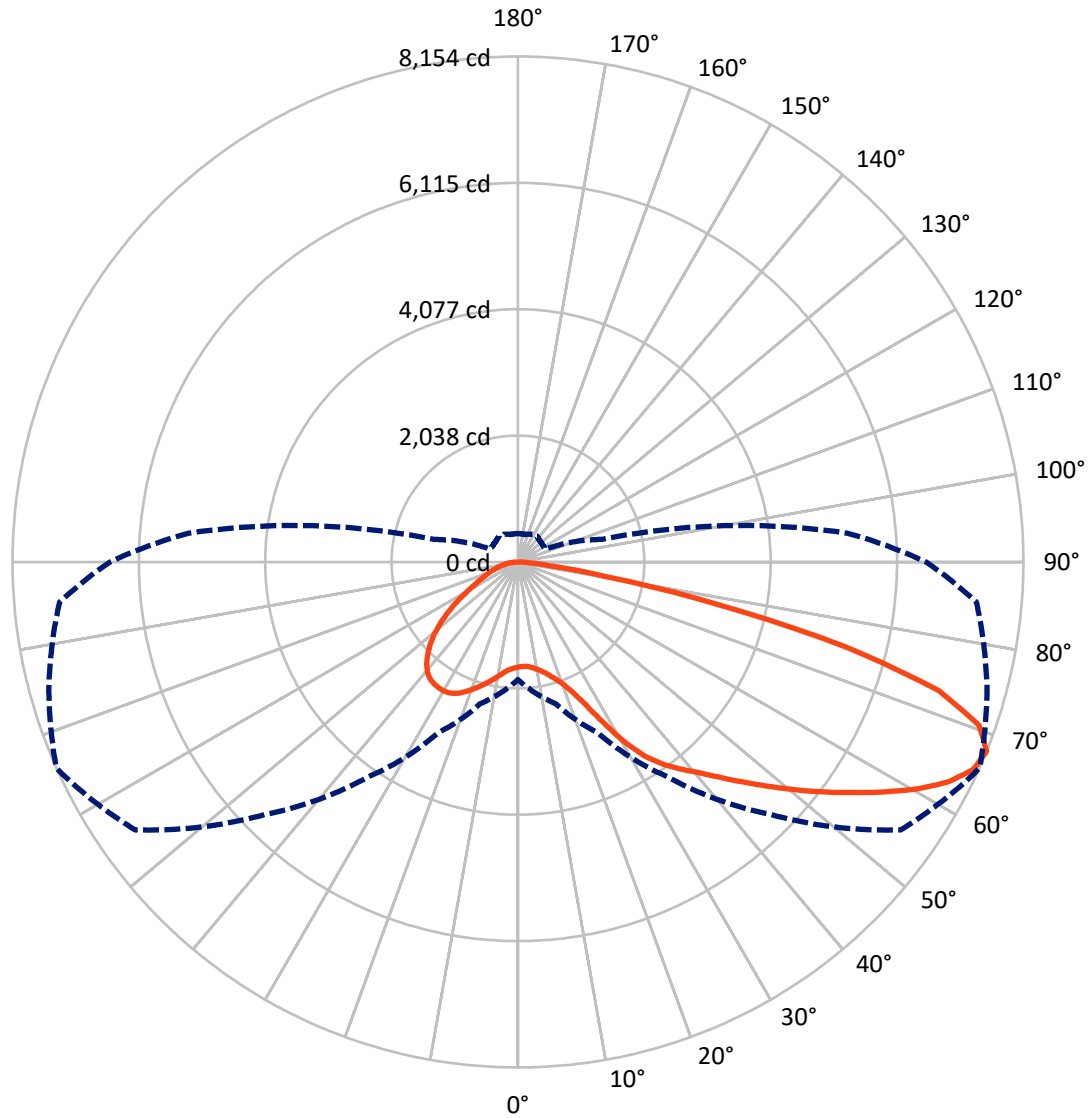
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	3797.8	0.0	3797.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	11476.2	0.0	11476.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	15274.0	0.0	15274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	1.1
10°-20°	554.9	3.6
20°-30°	1069.6	7.0
30°-40°	1875.4	12.3
40°-50°	2788.1	18.3
50°-60°	3534.2	23.1
60°-70°	3458.1	22.6
70°-80°	1649.5	10.8
80°-90°	176.3	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°	15274.0	100.0
0°-180°	15274.0	100.0

Coefficient of Utilization



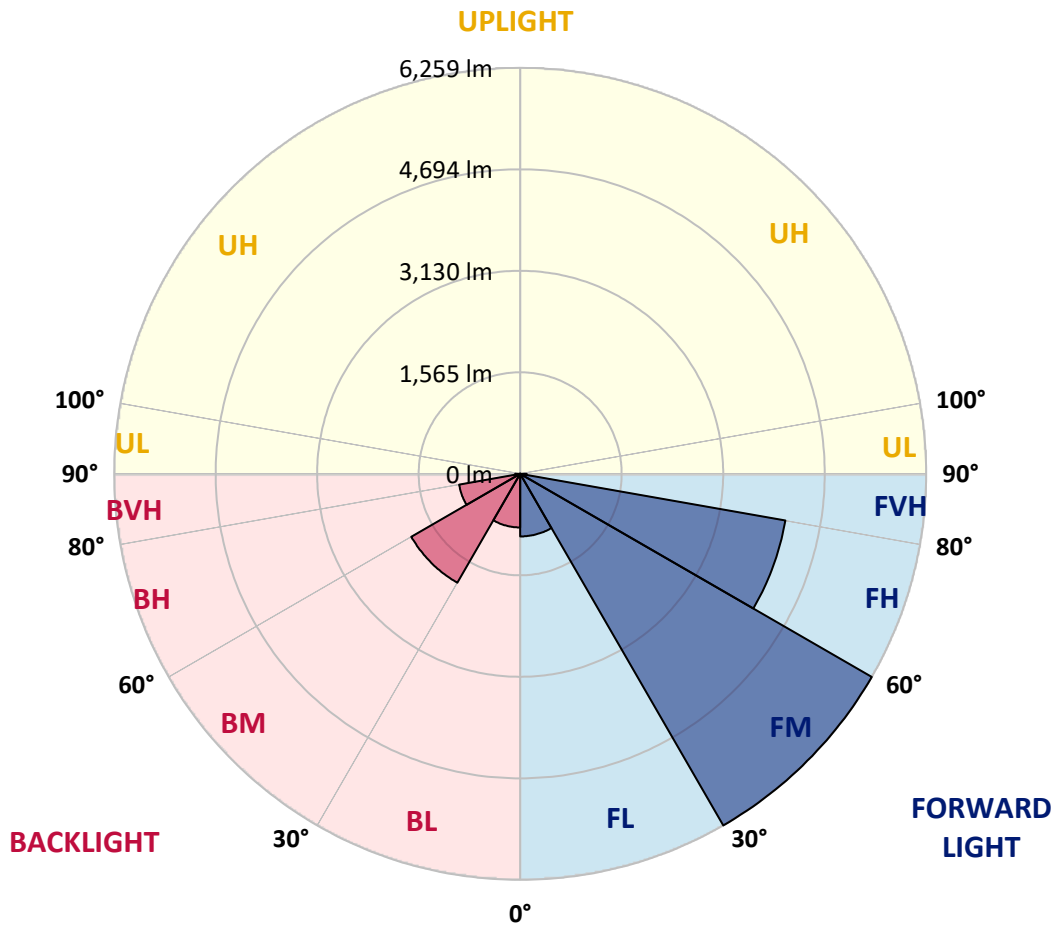
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	965.2	6.3			
FM (30°-60°)	6259.2	41.0			
FH (60°-80°)	4151.9	27.2			G2/5000
FVH (80°-90°)	99.9	0.7			G1/100
BL (0°-30°)	827.3	5.4	B2/1000		
BM (30°-60°)	1938.5	12.7	B2/2500		
BH (60°-80°)	955.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	76.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1
2.5°	1676.4	1686.1	1683.7	1679.6	1678.8	1680.4	1682.9	1685.3	1684.5	1688.5	1694.9
5°	1671.6	1681.2	1680.4	1680.4	1683.7	1690.1	1694.1	1698.1	1694.1	1698.9	1707.7
7.5°	1674.8	1682.1	1685.3	1688.5	1696.5	1708.5	1718.2	1727.0	1722.2	1727.8	1739.0
10°	1715.8	1721.4	1724.6	1724.6	1730.2	1743.8	1753.5	1769.5	1765.5	1774.3	1788.8
12.5°	1790.4	1796.0	1796.0	1792.8	1796.8	1805.6	1808.8	1826.5	1819.3	1833.7	1848.2
15°	1881.9	1893.1	1884.3	1878.7	1880.3	1889.1	1888.3	1901.9	1894.7	1906.8	1919.6
17.5°	1983.0	1997.4	1983.0	1982.2	1979.0	1988.6	1989.4	2001.4	1988.6	1997.4	2006.3
20°	2102.6	2122.6	2110.6	2114.6	2107.4	2111.4	2115.4	2133.1	2113.0	2119.4	2117.0
22.5°	2271.1	2295.2	2282.3	2297.6	2292.8	2289.5	2288.7	2320.0	2288.7	2291.2	2267.9
25°	2516.7	2545.5	2523.1	2543.9	2543.9	2554.4	2566.4	2606.5	2554.4	2539.1	2478.9
27.5°	2879.4	2908.3	2864.1	2877.0	2873.0	2898.6	2885.8	2985.3	2929.1	2904.3	2783.1
30°	3316.0	3367.3	3283.9	3280.6	3276.6	3317.6	3336.0	3401.8	3344.8	3320.0	3173.9
32.5°	3787.8	3841.6	3742.1	3713.2	3697.9	3722.8	3707.6	3760.5	3721.2	3682.7	3502.1
35°	4287.0	4339.9	4245.3	4189.1	4128.1	4075.9	4021.4	4035.0	3998.1	3939.5	3752.5
37.5°	4758.9	4856.0	4755.6	4695.5	4583.1	4481.2	4328.7	4265.3	4230.8	4177.0	3988.5
40°	5239.6	5294.9	5218.7	5167.3	5045.4	4885.7	4641.7	4507.7	4461.1	4409.0	4249.3
42.5°	5593.5	5646.4	5605.5	5570.2	5474.7	5289.3	4973.9	4806.2	4738.8	4680.2	4544.6
45°	5874.3	5913.7	5888.0	5900.8	5859.9	5680.1	5318.2	5126.4	5056.6	4985.2	4878.4
47.5°	5987.5	6029.2	6070.1	6146.4	6216.2	6083.8	5688.2	5473.1	5399.3	5326.2	5221.1
50°	5974.7	6017.2	6136.0	6298.1	6514.7	6470.6	6078.2	5842.2	5774.0	5690.6	5593.5
52.5°	5871.9	5920.1	6072.6	6342.2	6687.3	6760.3	6475.4	6223.4	6159.2	6059.7	5962.6
55°	5602.3	5631.2	5859.9	6241.9	6728.2	6962.5	6864.6	6629.5	6565.3	6426.5	6320.5
57.5°	5102.3	5144.1	5477.1	5971.4	6625.5	7099.8	7206.5	7056.4	6994.6	6794.8	6684.1
60°	4449.9	4516.5	4897.7	5517.2	6363.9	7099.0	7517.1	7476.1	7424.8	7157.5	7042.0
62.5°	3711.6	3788.6	4155.4	4875.2	5906.4	6897.5	7711.3	7827.6	7801.2	7492.2	7344.5
65°	2850.5	2903.5	3268.6	4044.6	5194.6	6465.0	7733.7	8067.6	8072.4	7746.6	7502.6
67.5°	1897.9	2050.4	2367.4	3035.1	4241.2	5758.0	7536.3	8106.9	8153.5	7834.1	7423.2
70°	926.1	1126.7	1437.3	1972.6	3035.1	4673.8	7020.3	7784.3	7887.8	7578.9	6949.7
72.5°	384.4	449.4	618.7	973.4	1742.2	3153.8	5983.5	6909.6	7101.4	6715.4	5843.0
75°	259.2	280.9	353.9	499.2	793.7	1555.3	4315.1	5152.1	5461.0	5071.8	4145.7
77.5°	199.8	213.5	257.6	349.1	471.9	588.2	2309.6	3104.9	3264.6	3022.2	2157.1
80°	157.3	167.7	192.6	254.4	334.6	314.6	787.3	1406.8	1499.1	1257.5	693.4
82.5°	136.4	140.4	138.0	172.5	222.3	183.8	258.4	519.2	573.0	415.7	226.3
85°	98.7	109.9	114.8	106.7	118.0	93.1	105.9	183.8	202.2	180.6	127.6
87.5°	40.1	59.4	73.0	69.0	43.3	26.5	32.9	53.8	61.8	67.4	41.7
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°	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1	1694.1
2.5°	1695.7	1701.3	1705.3	1710.1	1713.3	1718.2	1727.8	1733.4	1734.2	1738.2	1737.4
5°	1710.9	1719.0	1727.8	1740.6	1755.1	1767.1	1785.6	1798.4	1803.2	1807.2	1806.4
7.5°	1743.8	1755.1	1771.1	1793.6	1814.5	1830.5	1853.0	1868.2	1883.5	1889.1	1889.9
10°	1792.8	1808.8	1832.1	1862.6	1885.1	1905.9	1929.2	1942.1	1957.3	1963.7	1966.9
12.5°	1853.8	1870.6	1901.1	1943.7	1964.5	1979.0	1987.0	1983.8	1987.0	1992.6	1994.2
15°	1923.6	1942.1	1976.6	2022.3	2036.8	2023.9	2006.3	1990.2	1987.8	1989.4	1995.0
17.5°	2006.3	2019.9	2060.0	2098.6	2088.1	2035.2	1996.6	1971.0	1958.1	1954.1	1959.7
20°	2121.8	2121.8	2154.7	2178.8	2109.0	2019.1	1958.9	1917.2	1890.7	1879.5	1877.1
22.5°	2262.3	2249.4	2270.3	2253.4	2105.0	1974.2	1890.7	1818.5	1778.4	1762.3	1759.9
25°	2440.4	2425.2	2419.6	2315.2	2076.1	1902.7	1767.1	1679.6	1644.3	1635.5	1637.1
27.5°	2709.3	2670.7	2597.7	2348.9	2023.1	1790.4	1622.7	1541.6	1521.5	1522.4	1524.8
30°	3067.2	2990.1	2811.2	2354.6	1936.4	1631.5	1475.0	1417.2	1407.6	1411.6	1425.2
32.5°	3398.6	3325.6	3029.5	2328.9	1803.2	1475.8	1342.6	1304.1	1289.6	1294.4	1300.9
35°	3658.6	3638.6	3231.7	2292.8	1639.5	1329.8	1223.8	1190.9	1162.8	1156.4	1161.2
37.5°	3904.2	3896.2	3383.4	2242.2	1477.4	1226.2	1128.3	1085.0	1044.1	1021.6	1022.4
40°	4173.8	4165.8	3482.9	2164.4	1333.8	1136.3	1042.5	985.5	934.9	894.0	898.0
42.5°	4477.2	4429.8	3530.2	2052.8	1211.8	1060.1	972.6	895.6	829.0	791.3	793.7
45°	4808.6	4701.9	3529.4	1910.8	1109.1	990.3	898.0	788.9	727.1	691.8	690.2
47.5°	5160.1	4961.9	3486.1	1753.5	1009.6	913.3	782.4	699.0	658.1	636.4	631.6
50°	5522.8	5205.0	3412.3	1572.9	907.6	825.8	710.2	653.2	621.9	601.9	594.7
52.5°	5863.9	5425.7	3323.2	1368.3	804.1	740.7	678.1	634.0	601.1	578.6	569.0
55°	6180.9	5615.9	3197.2	1158.8	719.8	683.7	662.9	626.0	588.2	561.8	551.3
57.5°	6462.6	5739.5	2979.7	962.2	659.7	644.4	646.8	612.3	569.0	546.5	532.1
60°	6696.9	5830.2	2657.9	780.0	610.7	605.9	621.9	586.6	536.1	510.4	499.2
62.5°	6837.3	5828.6	2263.1	638.8	569.0	570.6	589.0	554.5	503.2	479.1	471.9
65°	6825.3	5685.7	1829.7	546.5	528.9	530.5	554.5	519.2	475.9	461.4	460.6
67.5°	6583.8	5337.5	1403.6	486.3	484.7	491.9	520.0	495.1	459.0	457.4	459.8
70°	5929.7	4614.4	1011.2	438.2	439.0	449.4	486.3	479.9	450.2	453.4	452.6
72.5°	4754.8	3518.2	678.9	387.6	388.4	405.3	454.2	467.9	441.4	483.9	490.3
75°	3166.7	2194.0	436.6	333.8	334.6	356.3	426.1	444.6	417.3	482.3	486.3
77.5°	1521.5	986.3	316.2	280.9	280.9	300.9	368.3	398.0	355.5	374.8	343.5
80°	525.6	370.8	248.8	226.3	221.5	235.1	310.6	345.1	306.6	282.5	264.8
82.5°	207.0	192.6	199.8	175.7	159.7	168.5	241.6	284.9	225.5	203.8	203.0
85°	118.8	125.2	141.2	116.4	92.3	103.5	177.4	204.6	170.1	150.1	153.3
87.5°	32.1	44.1	65.0	60.2	41.7	44.1	84.3	113.2	97.9	75.4	77.8
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)