

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: P882547

Luminaire Tested: **NAV-SB2C-722-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12052 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

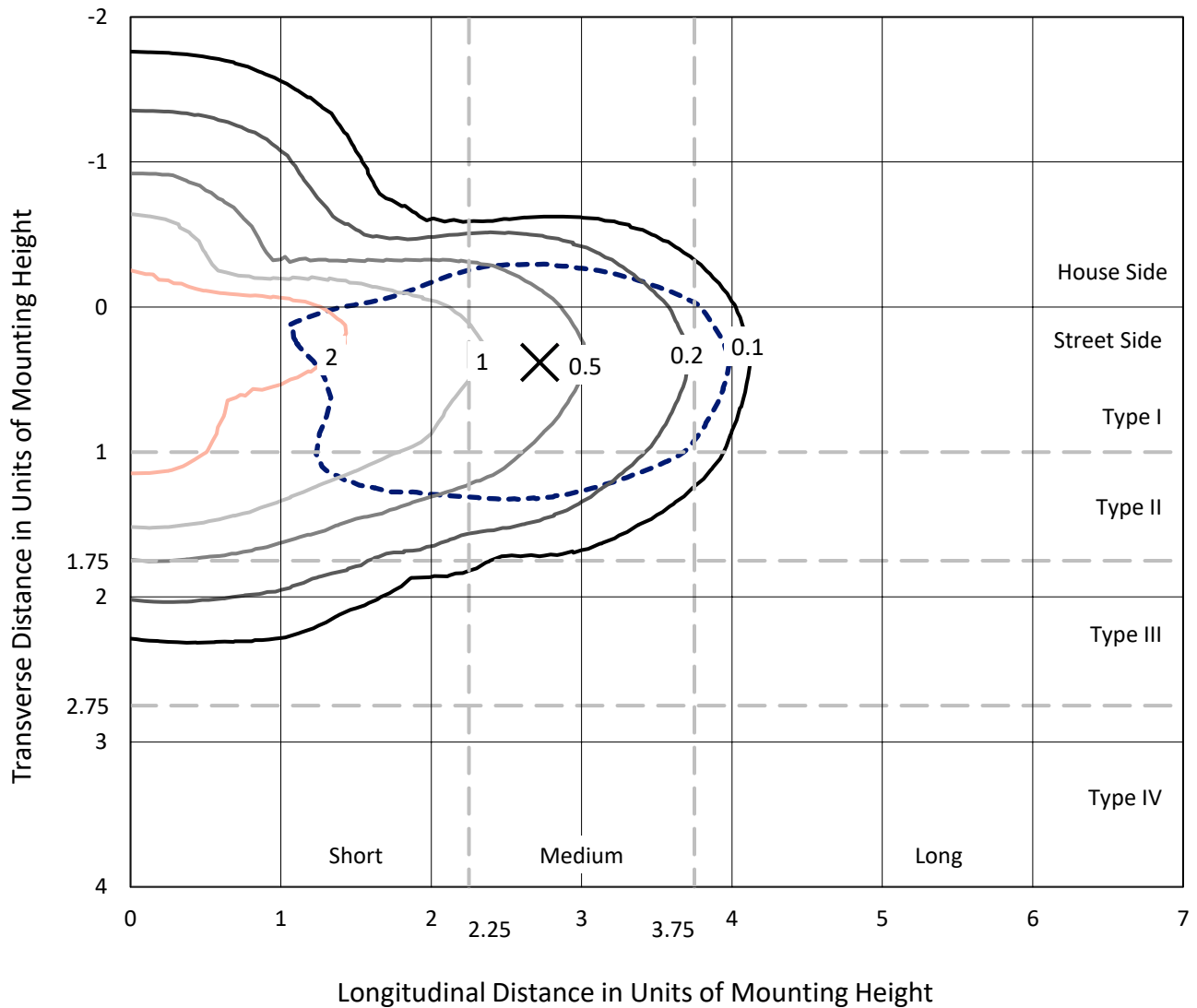
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

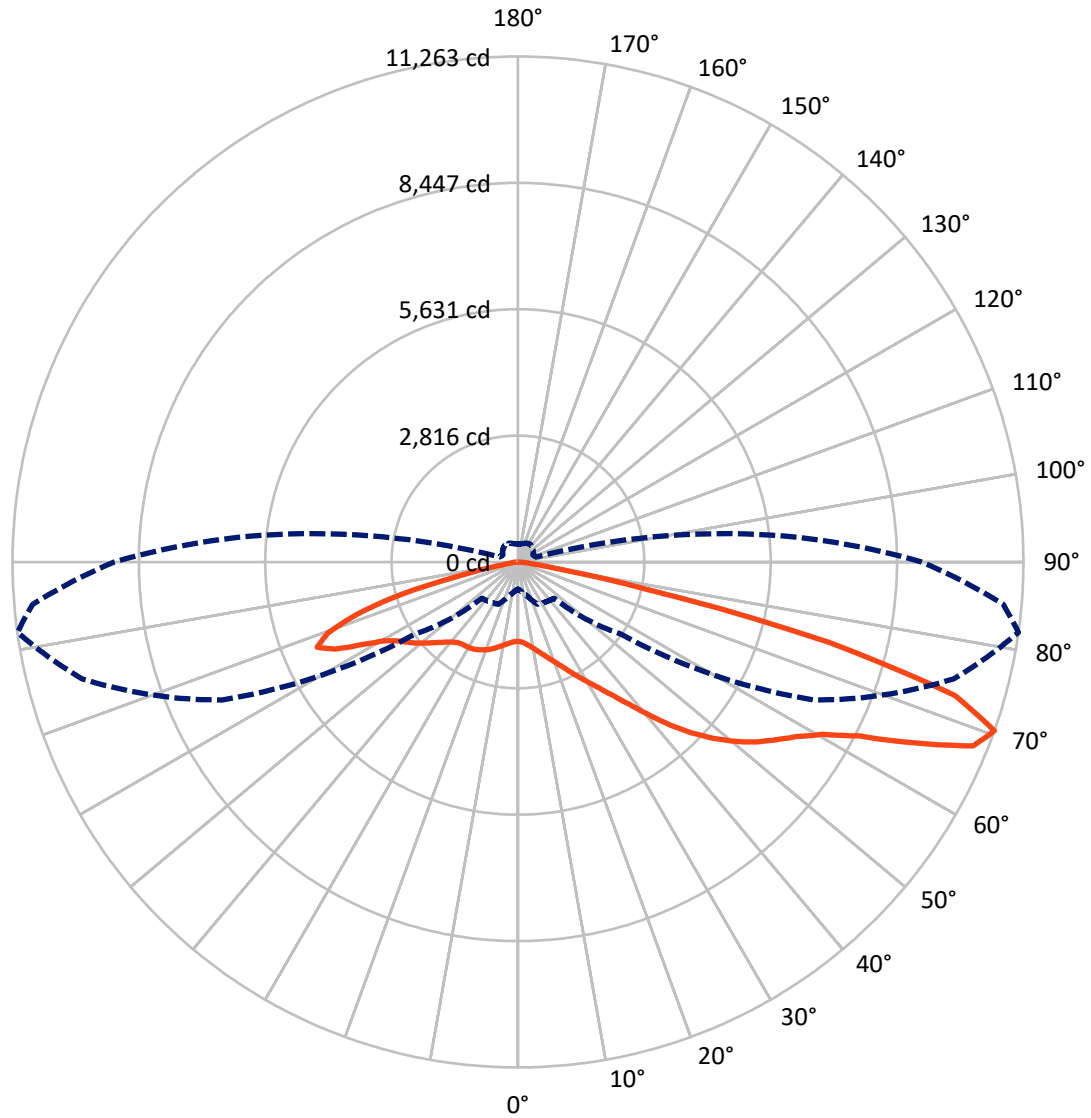
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2971.1	0.0	2971.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	9080.9	0.0	9080.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	12052.0	0.0	12052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	1.4
10°-20°	479.3	4.0
20°-30°	801.9	6.7
30°-40°	1252.7	10.4
40°-50°	1995.1	16.6
50°-60°	2776.4	23.0
60°-70°	2904.2	24.1
70°-80°	1517.9	12.6
80°-90°	157.6	1.3
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°	12052.0	100.0
0°-180°	12052.0	100.0

Coefficient of Utilization

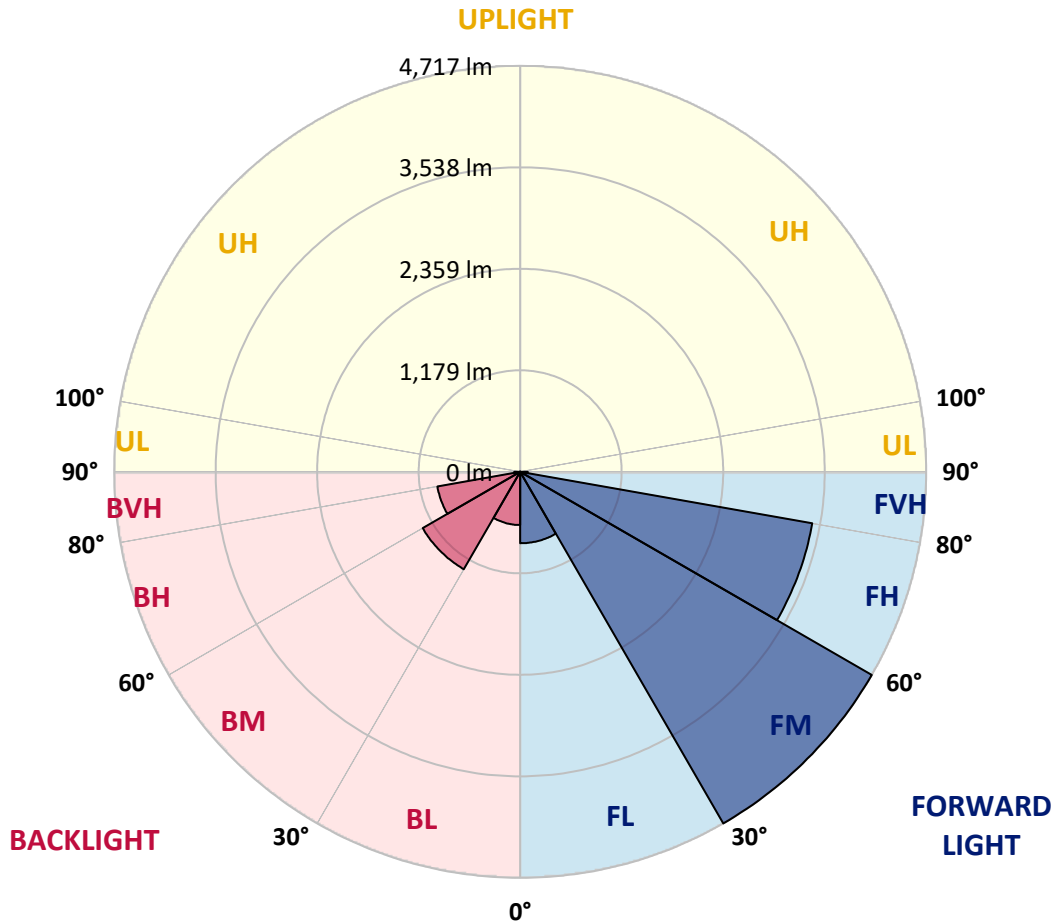


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	829.9	6.9			
FM (30°-60°)	4717.0	39.1			
FH (60°-80°)	3445.7	28.6			G2/5000
FVH (80°-90°)	88.2	0.7			G1/100
BL (0°-30°)	618.1	5.1	B2/1000		
BM (30°-60°)	1307.2	10.8	B2/2500		
BH (60°-80°)	976.5	8.1	B2/1000		G2/1000
BVH (80°-90°)	69.4	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0
2.5°	1809.2	1819.4	1816.2	1813.0	1813.0	1808.5	1807.9	1801.5	1796.4	1788.1	1786.2
5°	1832.2	1843.1	1841.8	1844.4	1852.7	1854.6	1856.5	1852.7	1842.4	1832.2	1827.7
7.5°	1811.7	1823.9	1827.7	1843.1	1868.7	1891.7	1908.9	1916.0	1906.4	1891.7	1884.6
10°	1742.7	1756.1	1769.5	1806.0	1851.4	1905.7	1951.8	1979.3	1977.4	1963.3	1951.2
12.5°	1602.6	1616.7	1645.5	1716.5	1799.6	1895.5	1981.2	2038.8	2058.6	2048.4	2027.3
15°	1490.7	1502.9	1524.6	1597.5	1705.6	1851.4	1992.1	2104.0	2154.5	2148.8	2123.2
17.5°	1487.5	1492.6	1506.1	1540.6	1623.7	1782.3	1980.6	2167.9	2264.5	2263.9	2231.9
20°	1543.8	1545.7	1553.4	1560.4	1607.7	1729.9	1951.2	2221.0	2387.9	2387.9	2353.4
22.5°	1621.8	1620.5	1628.2	1621.8	1644.8	1725.4	1932.6	2267.7	2525.4	2535.7	2492.2
25°	1738.8	1732.4	1730.5	1715.8	1720.3	1767.0	1953.1	2320.8	2688.5	2709.6	2655.3
27.5°	1894.9	1884.6	1877.6	1843.7	1832.2	1852.7	2015.7	2384.7	2870.1	2906.6	2837.5
30°	2098.2	2079.7	2069.5	2010.6	1969.1	1972.3	2110.4	2469.8	3060.1	3118.9	3031.3
32.5°	2375.8	2347.0	2319.5	2222.9	2146.8	2121.9	2232.5	2587.5	3266.0	3360.0	3247.4
35°	2686.6	2663.6	2634.2	2485.1	2368.1	2310.6	2397.5	2751.8	3507.1	3656.1	3509.6
37.5°	2985.9	2966.1	2980.1	2779.3	2628.4	2544.6	2613.7	2972.5	3804.5	4024.5	3838.4
40°	3295.4	3280.1	3282.0	3090.1	2914.3	2820.3	2875.9	3249.4	4145.3	4462.5	4233.6
42.5°	3631.8	3620.3	3581.9	3411.8	3214.2	3126.6	3177.7	3569.1	4511.1	4961.3	4667.2
45°	4008.5	4001.4	3965.6	3770.6	3544.2	3445.7	3514.8	3922.1	4878.8	5430.7	5102.7
47.5°	4334.0	4339.7	4335.3	4170.9	3936.2	3791.7	3874.2	4290.5	5221.0	5872.0	5520.3
50°	4490.7	4520.7	4564.8	4513.7	4367.9	4220.8	4236.8	4646.1	5547.1	6285.8	5920.6
52.5°	4408.8	4465.7	4585.9	4667.8	4724.1	4693.4	4650.5	4999.1	5854.1	6659.2	6299.2
55°	4103.8	4183.7	4383.2	4580.8	4868.0	5091.2	5147.4	5390.5	6153.4	6988.0	6657.3
57.5°	3548.0	3677.8	3856.9	4256.6	4740.1	5283.7	5726.8	5933.4	6470.6	7339.0	7032.1
60°	2595.1	2769.1	2991.6	3586.4	4292.4	5180.7	6219.9	6767.3	6921.4	7793.7	7520.0
62.5°	1660.8	1768.3	1972.9	2533.1	3344.7	4653.1	6370.8	7809.7	7685.7	8539.4	8251.6
65°	1137.1	1206.1	1393.5	1708.1	2162.2	3463.6	5966.7	8591.2	8899.5	9721.2	9502.5
67.5°	826.3	878.7	1038.6	1314.2	1408.8	2049.6	4630.1	8555.4	10079.4	10938.9	10598.6
70°	602.4	639.5	773.8	1038.6	1084.0	1140.3	2804.9	7272.5	10053.8	11262.5	10855.1
72.5°	446.4	472.0	562.1	805.8	877.4	770.0	1388.4	5285.6	8639.2	10186.8	9860.0
75°	323.0	342.1	408.6	616.5	702.2	586.4	692.6	3088.8	6026.1	7165.7	7223.3
77.5°	246.9	261.6	305.0	451.5	562.1	440.0	429.8	1421.0	2857.3	2871.4	3032.6
80°	198.2	207.8	231.5	317.8	431.0	329.3	280.1	573.6	903.0	764.2	801.9
82.5°	145.8	161.8	195.7	223.2	308.2	227.0	170.7	289.7	343.4	295.5	298.0
85°	83.1	94.0	118.3	159.9	197.0	138.8	97.8	128.5	159.9	131.1	117.0
87.5°	29.4	38.4	41.6	62.7	85.7	57.6	37.7	37.1	52.4	39.0	32.6
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°	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0	1767.0
2.5°	1779.8	1776.6	1763.8	1746.5	1728.6	1711.3	1705.6	1693.4	1685.1	1680.6	1685.8
5°	1815.6	1805.3	1775.3	1736.9	1696.6	1653.1	1622.4	1594.3	1573.8	1554.7	1562.3
7.5°	1866.7	1848.8	1797.0	1729.9	1658.3	1586.0	1532.3	1491.3	1463.8	1445.9	1449.8
10°	1926.2	1898.7	1819.4	1719.0	1608.4	1504.8	1441.5	1406.3	1389.0	1379.4	1382.0
12.5°	1994.6	1955.6	1842.4	1694.1	1532.3	1414.0	1370.5	1360.2	1360.9	1361.5	1362.8
15°	2079.1	2024.7	1861.0	1639.7	1433.1	1344.3	1336.6	1353.2	1370.5	1378.8	1378.2
17.5°	2174.3	2097.6	1864.2	1550.2	1335.9	1299.5	1323.8	1359.6	1385.8	1397.3	1399.9
20°	2276.7	2171.8	1841.2	1423.6	1256.0	1263.0	1306.5	1352.6	1381.3	1396.1	1399.9
22.5°	2393.7	2251.1	1786.2	1290.5	1190.8	1223.4	1274.5	1319.3	1349.4	1364.1	1367.9
25°	2527.4	2340.0	1699.8	1178.6	1134.5	1178.6	1229.8	1266.9	1291.2	1304.6	1308.4
27.5°	2675.7	2432.7	1584.7	1089.7	1085.3	1132.6	1174.8	1203.6	1216.4	1226.6	1230.4
30°	2824.7	2517.1	1445.3	1022.6	1042.4	1087.2	1117.2	1130.0	1133.9	1135.8	1140.3
32.5°	2985.9	2590.0	1298.9	966.9	1001.5	1043.0	1061.0	1066.7	1048.8	1036.7	1040.5
35°	3180.9	2668.0	1155.6	922.8	961.2	997.0	1002.8	997.6	976.5	951.6	952.9
37.5°	3422.0	2765.3	1041.1	891.5	923.5	947.1	940.1	938.8	940.7	911.3	913.2
40°	3717.5	2891.9	957.4	867.2	892.8	897.9	878.1	888.9	898.5	853.7	855.0
42.5°	4045.6	3044.7	904.3	850.6	867.2	855.0	824.3	836.5	835.2	776.4	775.7
45°	4380.0	3211.0	885.7	838.4	843.5	819.2	785.3	788.5	761.7	708.6	710.5
47.5°	4712.6	3389.4	897.2	828.2	814.1	786.6	760.4	746.3	706.7	667.0	667.0
50°	5038.7	3576.8	939.4	807.7	773.8	757.8	738.6	713.7	671.5	637.6	635.0
52.5°	5341.2	3765.5	986.8	773.8	723.3	732.9	720.7	692.0	650.4	615.9	616.5
55°	5627.7	3954.1	1005.3	727.1	676.0	711.1	704.1	651.0	601.1	573.0	570.4
57.5°	5939.8	4181.1	984.8	667.7	637.6	686.2	659.3	600.5	571.7	550.6	548.7
60°	6372.1	4537.3	940.7	594.1	601.1	649.1	603.1	578.8	547.4	523.8	522.5
62.5°	7090.3	5201.8	869.7	521.2	558.3	594.1	576.2	551.9	519.9	496.9	496.9
65°	8151.9	6125.3	736.1	464.3	510.3	540.4	547.4	523.1	489.9	465.6	466.8
67.5°	9047.2	6704.7	557.0	417.0	461.1	496.9	516.7	493.1	457.9	434.2	434.9
70°	8997.9	6283.9	425.3	370.3	417.6	454.1	479.6	461.1	423.4	401.0	402.9
72.5°	7992.0	5256.8	344.1	323.0	373.5	409.3	440.0	425.9	387.5	365.8	365.8
75°	5871.4	3731.6	275.0	275.0	318.5	362.6	396.5	387.5	352.4	337.0	332.5
77.5°	2474.9	1565.5	215.5	228.3	264.8	311.4	353.7	356.8	326.2	345.3	313.4
80°	658.1	431.7	164.4	179.7	207.8	257.1	307.6	306.3	273.1	255.2	237.3
82.5°	250.7	170.1	117.0	126.6	150.3	197.0	243.7	251.3	218.1	188.7	188.7
85°	96.6	72.9	72.3	76.1	87.6	130.5	184.2	190.6	164.4	139.4	143.9
87.5°	24.9	21.7	26.9	25.6	40.3	69.7	105.5	109.4	100.4	58.2	83.1
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)