

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: P882571

Luminaire Tested: **NAV-SB2C-730-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-730-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

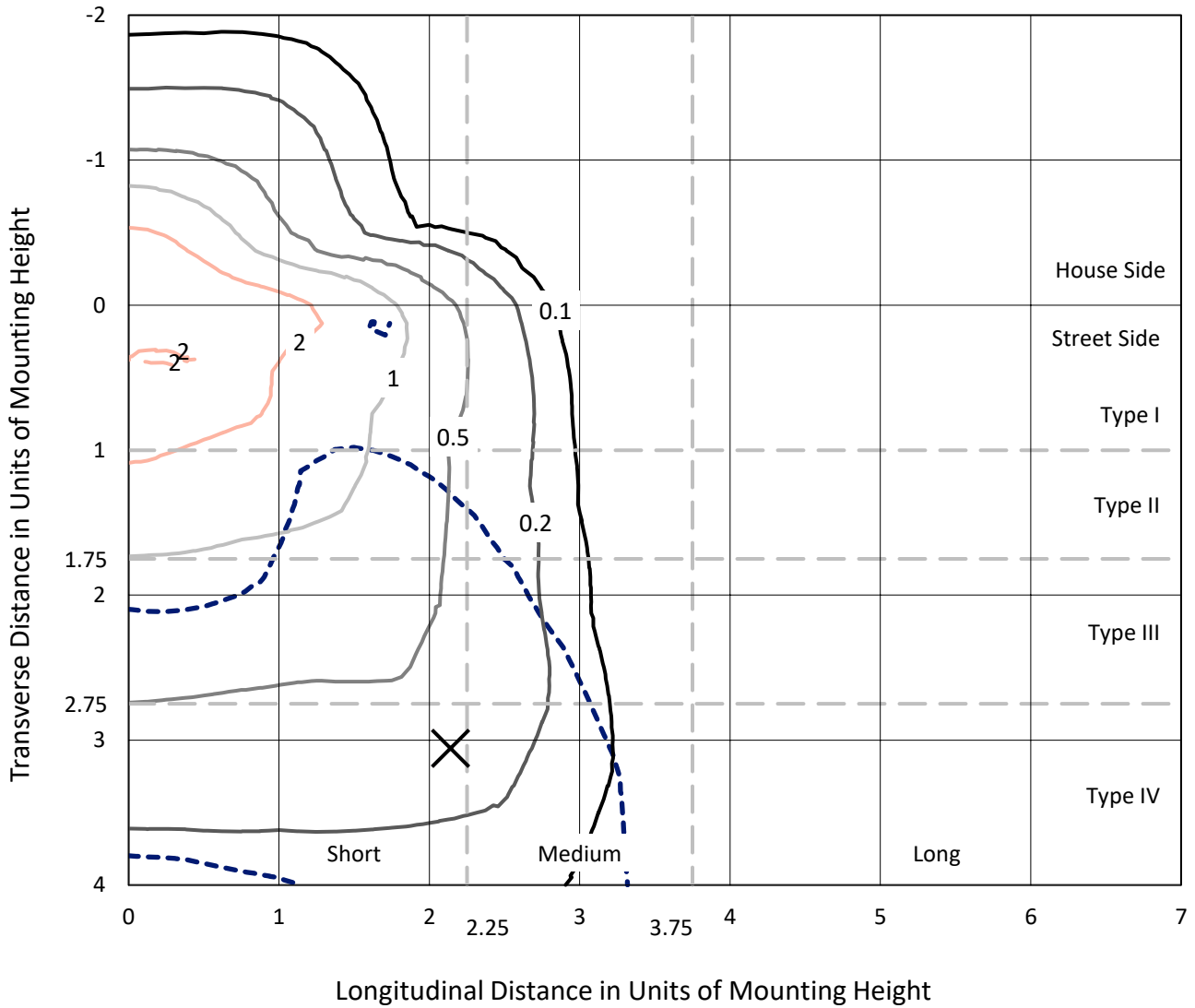
Lumens per Lamp: N/A  
Luminaire Lumens: 14850 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 100.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

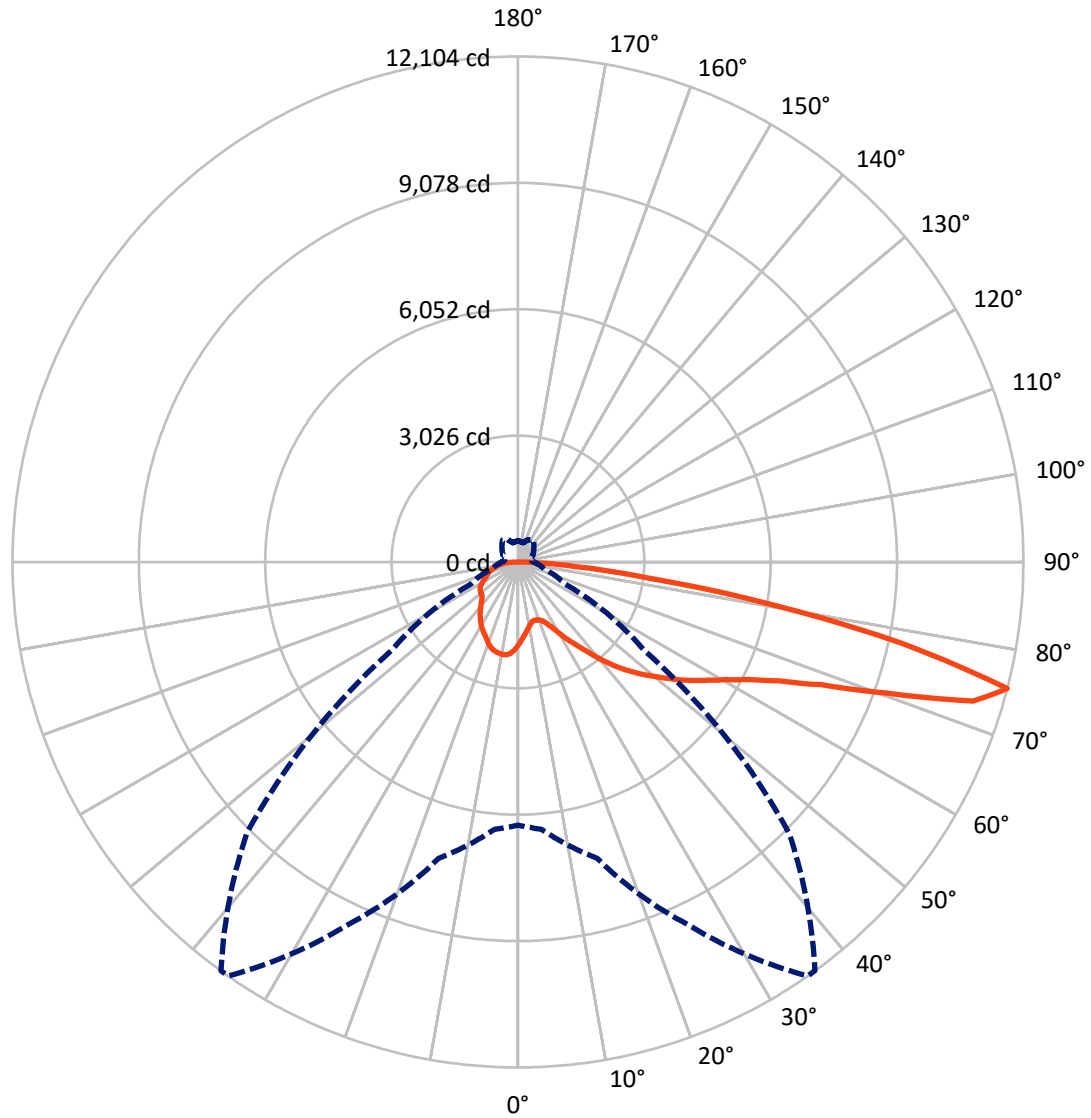
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3533.9	0.0	3533.9
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	11316.1	0.0	11316.1
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	14850.0	0.0	14850.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.4	1.3
10°-20°	540.4	3.6
20°-30°	907.5	6.1
30°-40°	1410.4	9.5
40°-50°	2093.4	14.1
50°-60°	2890.1	19.5
60°-70°	3506.3	23.6
70°-80°	2897.7	19.5
80°-90°	416.8	2.8
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°	14850.0	100.0
0°-180°	14850.0	100.0

**Coefficient of Utilization**



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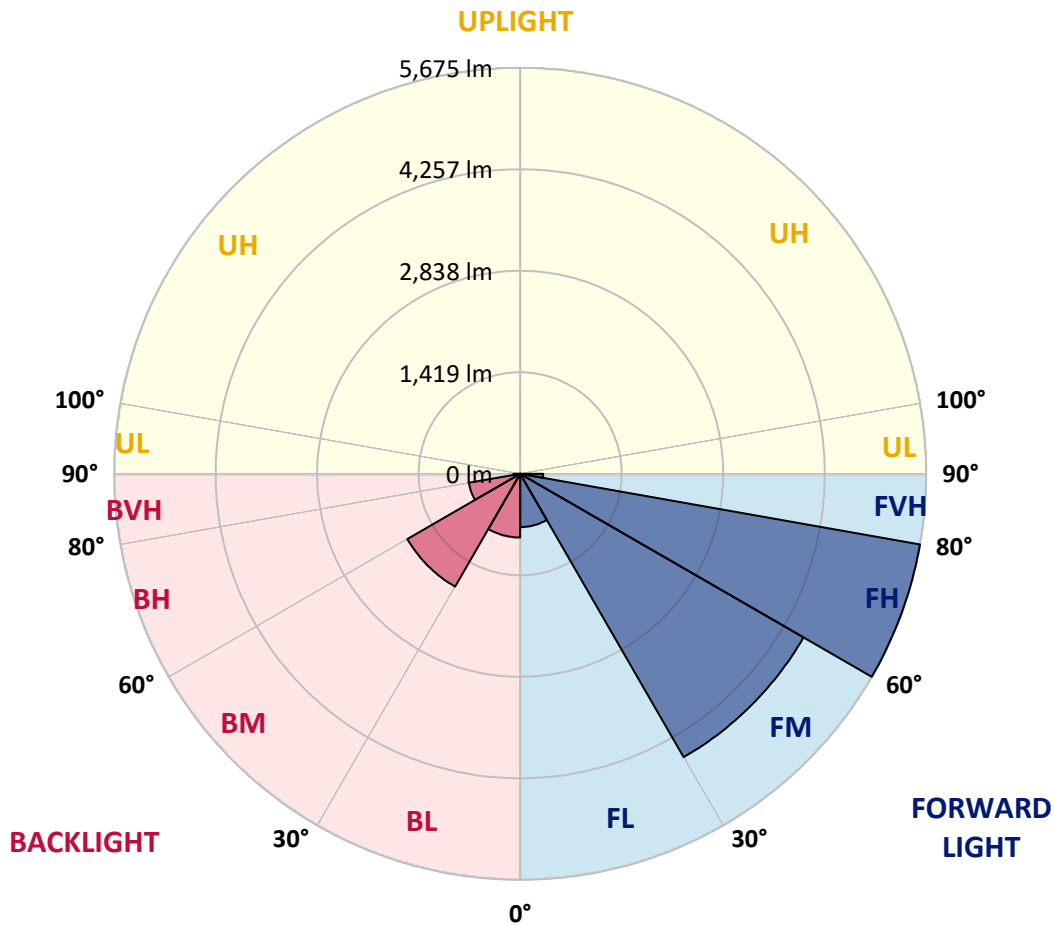
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	744.7	5.0			
FM (30°-60°)	4573.0	30.8			
FH (60°-80°)	5675.4	38.2			G3/7500
FVH (80°-90°)	322.9	2.2			G3/500
BL (0°-30°)	890.6	6.0	B2/1000		
BM (30°-60°)	1820.9	12.3	B2/2500		
BH (60°-80°)	728.6	4.9	B2/1000		G2/1000
BVH (80°-90°)	93.8	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9
2.5°	1824.7	1836.0	1840.8	1838.4	1850.4	1848.8	1865.7	1886.5	1915.4	1943.5	1984.5
5°	1684.2	1696.3	1706.7	1716.4	1739.6	1746.9	1773.4	1813.5	1866.5	1920.3	1987.7
7.5°	1553.4	1563.8	1579.9	1597.5	1636.9	1644.1	1688.3	1750.9	1824.7	1903.4	1996.5
10°	1446.6	1457.1	1473.9	1494.0	1543.0	1551.8	1608.0	1691.5	1787.8	1887.3	2006.2
12.5°	1400.9	1404.1	1413.7	1433.8	1476.3	1481.9	1543.8	1639.3	1751.7	1875.3	2020.6
15°	1398.5	1404.9	1405.7	1416.1	1451.4	1453.8	1510.8	1605.6	1729.2	1872.9	2042.3
17.5°	1422.5	1427.4	1420.1	1426.5	1456.3	1460.3	1505.2	1589.5	1722.0	1883.3	2079.2
20°	1486.8	1490.8	1469.1	1460.3	1481.9	1485.2	1529.3	1599.9	1729.2	1905.0	2129.8
22.5°	1623.2	1625.6	1572.7	1536.5	1538.1	1539.7	1578.3	1642.5	1757.3	1944.3	2194.0
25°	1836.0	1834.4	1750.1	1680.2	1640.1	1631.3	1656.9	1711.5	1804.7	1996.5	2276.7
27.5°	2084.8	2072.8	1988.5	1884.1	1796.6	1783.8	1778.2	1801.4	1872.1	2065.6	2377.8
30°	2365.8	2354.6	2263.9	2127.4	2006.2	1985.3	1932.3	1920.3	1972.4	2159.5	2518.3
32.5°	2674.1	2666.8	2558.5	2393.1	2230.9	2206.9	2117.7	2085.6	2126.6	2301.6	2714.2
35°	2932.6	2926.1	2836.2	2666.0	2467.8	2438.1	2347.3	2311.2	2332.1	2483.8	2970.3
37.5°	3166.2	3163.0	3085.9	2951.8	2747.1	2711.0	2609.0	2597.0	2593.0	2723.8	3281.0
40°	3382.9	3374.9	3294.6	3224.0	3072.3	3039.3	2949.4	2939.0	2908.5	3019.3	3632.6
42.5°	3623.0	3602.1	3485.7	3452.8	3411.8	3384.5	3330.8	3332.4	3264.9	3352.4	4005.1
45°	3818.8	3806.8	3687.2	3667.9	3712.1	3700.8	3747.4	3759.4	3628.6	3701.6	4392.0
47.5°	4029.2	4017.9	3916.8	3903.1	4022.8	4026.0	4190.5	4194.5	3983.4	4064.5	4779.8
50°	4288.5	4272.4	4172.1	4188.9	4323.0	4335.0	4636.1	4608.8	4310.1	4433.0	5164.3
52.5°	4459.5	4469.1	4447.4	4474.7	4657.8	4669.0	5074.4	5004.6	4633.7	4796.6	5541.6
55°	4585.5	4604.8	4672.2	4734.8	5011.0	5022.2	5487.8	5381.1	4901.8	5133.8	5896.4
57.5°	4747.7	4720.4	4846.4	4968.4	5346.5	5376.2	5890.0	5743.9	5139.4	5424.4	6139.7
60°	4980.5	4961.2	5059.1	5239.8	5722.2	5769.6	6315.5	6070.7	5313.6	5654.8	6187.1
62.5°	5452.5	5404.3	5419.6	5579.3	6195.9	6258.5	6795.6	6355.6	5400.3	5744.7	5933.4
65°	6158.2	6075.5	5998.4	6109.2	6863.0	6924.8	7337.4	6579.6	5368.2	5570.5	5259.8
67.5°	7046.8	6965.0	6870.2	6974.6	7845.6	7894.6	8006.2	6705.7	5115.3	4899.4	4069.3
70°	7779.8	7749.3	7862.5	8292.0	9415.1	9416.7	8863.5	6601.3	4422.5	3473.6	2354.6
72.5°	7682.6	7664.2	8260.6	9588.5	11393.1	11350.6	9675.2	5811.4	2979.1	1567.0	882.3
75°	6302.7	6422.3	7346.3	9565.2	12103.6	12098.0	9178.2	3694.4	1232.3	649.5	456.0
77.5°	3379.7	3569.2	4769.3	7062.1	9448.8	9590.9	6452.8	1292.5	529.0	415.8	315.5
80°	1102.2	1267.6	1901.0	3595.7	6139.7	6113.2	2765.6	507.4	362.1	294.6	218.4
82.5°	468.0	487.3	849.3	1697.9	3150.9	3102.0	880.7	291.4	254.5	201.5	134.9
85°	183.0	204.7	374.9	785.1	1364.7	1335.0	317.9	144.5	163.0	131.7	80.3
87.5°	60.2	73.1	134.1	268.9	424.7	409.4	77.9	49.8	70.6	60.2	28.9
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°	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9	1978.9
2.5°	1995.7	2008.6	2023.8	2046.3	2065.6	2081.6	2098.5	2108.9	2112.9	2125.0	2124.2
5°	2010.2	2038.3	2076.0	2112.9	2149.1	2170.7	2190.0	2199.6	2208.5	2214.9	2216.5
7.5°	2034.3	2070.4	2129.8	2178.0	2208.5	2226.1	2239.0	2235.8	2239.0	2240.6	2243.0
10°	2055.1	2105.7	2176.3	2222.1	2245.4	2246.2	2243.0	2231.7	2226.1	2226.9	2228.5
12.5°	2080.0	2136.2	2212.5	2251.0	2257.4	2239.8	2226.1	2206.9	2199.6	2196.4	2194.8
15°	2113.7	2178.0	2251.8	2266.3	2250.2	2227.7	2204.4	2173.1	2157.1	2144.2	2148.3
17.5°	2154.7	2225.3	2282.3	2271.9	2237.4	2200.4	2162.7	2115.3	2082.4	2068.8	2069.6
20°	2211.7	2275.1	2305.6	2259.8	2207.7	2151.5	2087.2	2029.4	1998.9	1985.3	1983.7
22.5°	2280.7	2341.7	2328.1	2239.0	2165.1	2075.2	1994.9	1952.4	1937.1	1927.5	1929.1
25°	2363.4	2415.6	2344.1	2208.5	2095.3	1974.0	1912.2	1898.6	1891.4	1884.1	1884.1
27.5°	2471.0	2499.1	2356.2	2163.5	1986.1	1866.5	1844.0	1846.4	1844.0	1832.0	1834.4
30°	2613.1	2607.4	2367.4	2090.4	1860.9	1769.3	1770.9	1781.4	1783.0	1775.0	1779.0
32.5°	2800.1	2743.1	2373.0	1995.7	1741.2	1684.2	1685.8	1697.1	1705.1	1691.5	1697.9
35°	3026.5	2901.3	2364.2	1876.9	1648.9	1603.2	1591.1	1594.3	1596.7	1583.9	1592.7
37.5°	3290.6	3078.7	2324.9	1745.3	1572.7	1523.7	1498.0	1476.3	1463.5	1451.4	1459.5
40°	3580.4	3272.1	2252.6	1616.8	1487.6	1439.4	1400.9	1359.9	1316.6	1300.5	1307.7
42.5°	3883.9	3471.2	2165.1	1494.0	1389.6	1350.3	1309.3	1249.9	1184.9	1152.0	1156.0
45°	4198.6	3675.1	2079.2	1372.8	1289.3	1272.4	1225.0	1153.6	1083.0	1041.2	1038.0
47.5°	4506.8	3867.8	1953.2	1250.7	1195.3	1213.8	1176.9	1111.1	1032.4	966.6	959.3
50°	4801.5	4048.4	1746.9	1127.1	1119.1	1196.1	1160.8	1066.1	976.2	891.9	884.7
52.5°	5093.7	4194.5	1482.7	1014.7	1078.1	1191.3	1140.0	1035.6	925.6	837.3	827.7
55°	5341.7	4270.0	1228.3	918.4	1018.7	1150.4	1115.1	999.5	854.2	760.2	752.2
57.5°	5483.0	4209.0	1016.3	823.7	936.8	1083.0	1072.5	922.4	769.1	696.8	687.2
60°	5422.0	3961.7	842.9	741.0	859.0	1009.9	998.7	846.1	704.0	635.8	626.2
62.5°	5085.6	3490.5	705.6	668.7	788.3	935.2	924.8	787.5	654.3	588.4	578.0
65°	4408.1	2839.4	598.9	608.5	716.9	845.3	860.6	738.6	614.9	550.7	540.3
67.5°	3362.1	2056.7	515.4	556.3	647.0	757.0	801.2	703.2	582.0	521.0	511.4
70°	1916.2	1168.1	444.7	505.8	585.2	675.1	755.4	675.1	546.7	496.1	489.7
72.5°	726.5	536.3	384.5	455.2	525.8	606.1	704.8	631.0	505.8	468.0	461.6
75°	387.7	326.7	323.5	395.8	457.6	538.7	641.4	587.6	475.2	494.5	510.6
77.5°	264.1	231.2	270.5	338.8	382.9	464.0	574.0	521.8	411.8	410.2	378.1
80°	183.0	163.8	220.0	272.9	296.2	390.2	500.9	448.0	335.6	313.1	299.4
82.5°	110.0	106.8	164.6	203.9	209.5	301.0	415.0	375.7	274.6	239.2	240.8
85°	60.2	63.4	105.2	119.6	122.0	210.3	325.1	290.6	211.1	177.4	179.0
87.5°	16.9	21.7	38.5	47.4	58.6	109.2	193.5	172.6	106.0	73.9	73.9
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)