

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: P882911

Luminaire Tested: **NAV-SB3A-730-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882911  
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-SB3A-730-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

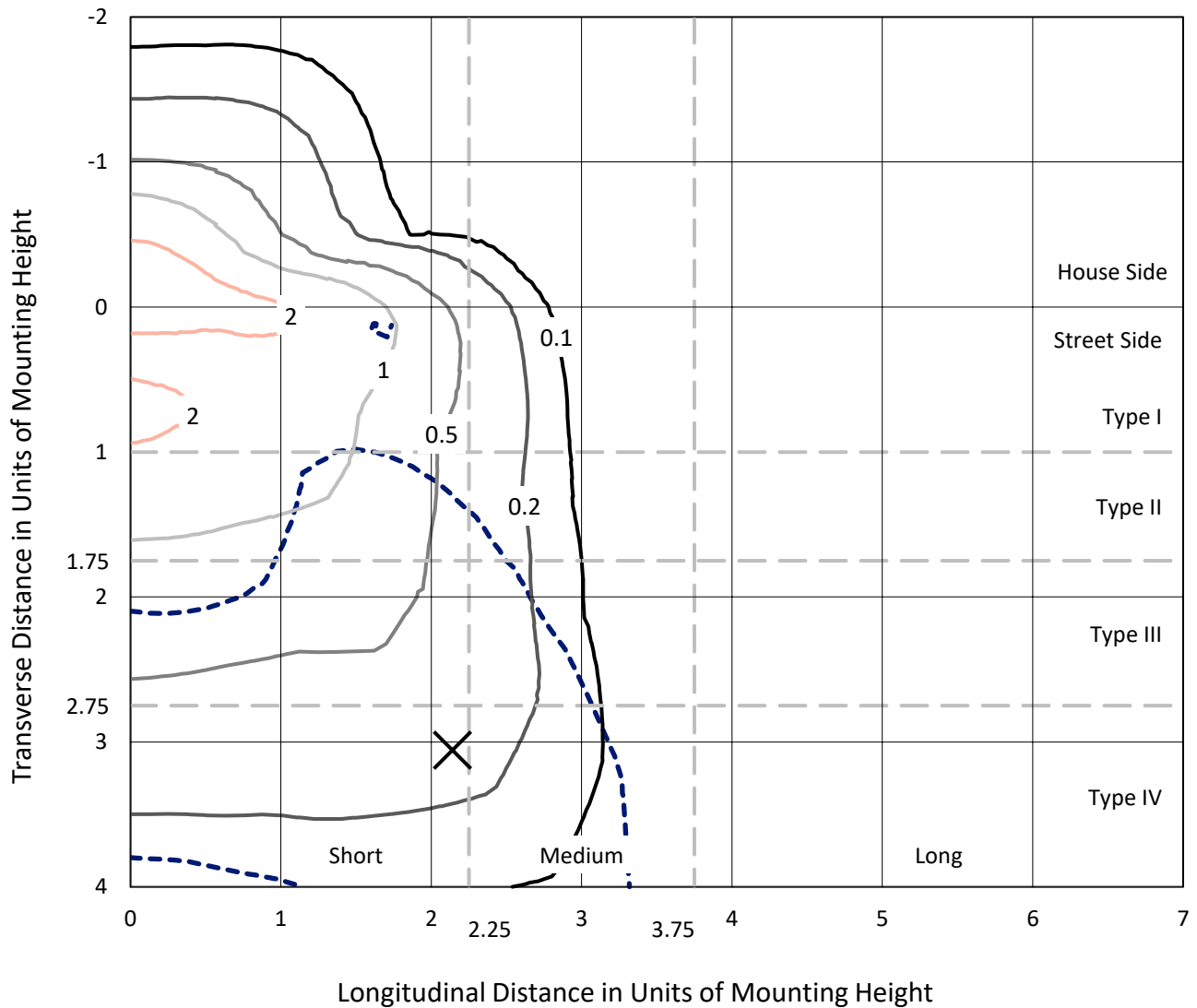
Lumens per Lamp: N/A  
Luminaire Lumens: 13091 lumens  
Efficiency: N/A  
Efficacy: 154.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): 120.0  
Input Current (Ain): 0.717  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

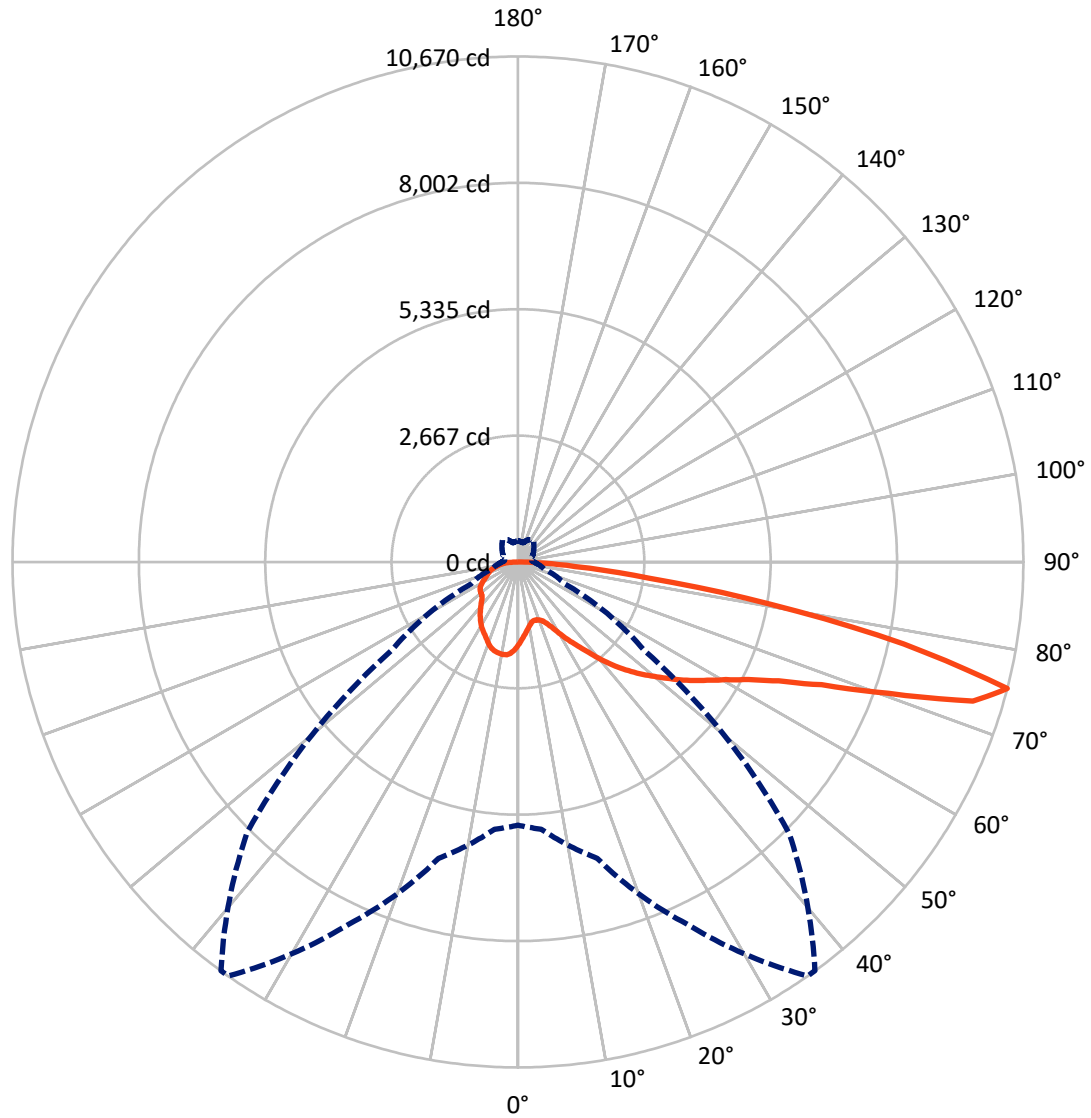
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	3115.3	0.0	3115.3
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	9975.7	0.0	9975.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	13091.0	0.0	13091.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	1.3
10°-20°	476.4	3.6
20°-30°	800.0	6.1
30°-40°	1243.3	9.5
40°-50°	1845.4	14.1
50°-60°	2547.7	19.5
60°-70°	3091.0	23.6
70°-80°	2554.5	19.5
80°-90°	367.4	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°	13091.0	100.0
0°-180°	13091.0	100.0

**Coefficient of Utilization**



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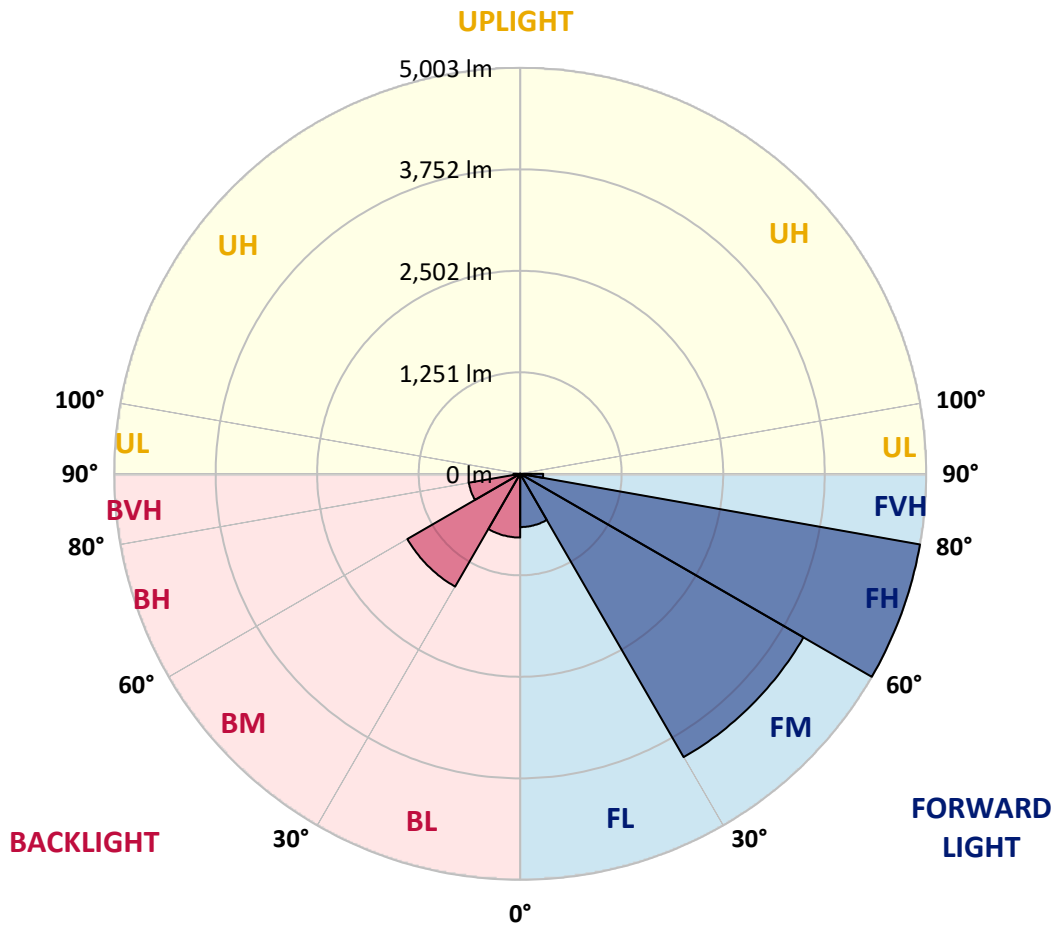
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	656.5	5.0			
FM (30°-60°)	4031.3	30.8			
FH (60°-80°)	5003.2	38.2			G3/7500
FVH (80°-90°)	284.7	2.2			G3/500
BL (0°-30°)	785.1	6.0	B2/1000		
BM (30°-60°)	1605.2	12.3	B2/2500		
BH (60°-80°)	642.3	4.9	B2/1000		G2/1000
BVH (80°-90°)	82.7	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°	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5
2.5°	1608.6	1618.5	1622.7	1620.6	1631.2	1629.8	1644.7	1663.1	1688.6	1713.3	1749.4
5°	1484.7	1495.4	1504.6	1513.0	1533.6	1539.9	1563.3	1598.7	1645.4	1692.8	1752.2
7.5°	1369.4	1378.6	1392.7	1408.3	1443.0	1449.4	1488.3	1543.5	1608.6	1677.9	1760.0
10°	1275.3	1284.5	1299.3	1317.0	1360.2	1368.0	1417.5	1491.1	1576.0	1663.8	1768.5
12.5°	1234.9	1237.8	1246.2	1263.9	1301.4	1306.4	1360.9	1445.1	1544.2	1653.2	1781.3
15°	1232.8	1238.5	1239.2	1248.4	1279.5	1281.6	1331.9	1415.4	1524.4	1651.0	1800.4
17.5°	1254.0	1258.3	1251.9	1257.6	1283.8	1287.3	1326.9	1401.2	1518.0	1660.2	1832.9
20°	1310.6	1314.2	1295.1	1287.3	1306.4	1309.2	1348.2	1410.4	1524.4	1679.4	1877.5
22.5°	1431.0	1433.1	1386.4	1354.5	1355.9	1357.4	1391.3	1447.9	1549.1	1714.0	1934.1
25°	1618.5	1617.1	1542.8	1481.2	1445.8	1438.0	1460.7	1508.8	1590.9	1760.0	2007.0
27.5°	1837.9	1827.3	1753.0	1661.0	1583.8	1572.5	1567.5	1588.1	1650.3	1820.9	2096.2
30°	2085.6	2075.7	1995.7	1875.4	1768.5	1750.1	1703.4	1692.8	1738.8	1903.7	2220.0
32.5°	2357.3	2351.0	2255.4	2109.6	1966.7	1945.4	1866.9	1838.6	1874.7	2029.0	2392.7
35°	2585.2	2579.5	2500.3	2350.2	2175.4	2149.3	2069.3	2037.4	2055.8	2189.6	2618.5
37.5°	2791.1	2788.3	2720.4	2602.2	2421.7	2389.9	2300.0	2289.4	2285.8	2401.2	2892.3
40°	2982.2	2975.1	2904.4	2842.1	2708.3	2679.3	2600.1	2590.9	2564.0	2661.6	3202.3
42.5°	3193.8	3175.4	3072.8	3043.8	3007.7	2983.6	2936.2	2937.6	2878.2	2955.3	3530.7
45°	3366.5	3355.9	3250.4	3233.5	3272.4	3262.5	3303.5	3314.1	3198.8	3263.2	3871.8
47.5°	3551.9	3542.0	3452.8	3440.8	3546.3	3549.1	3694.2	3697.7	3511.6	3583.1	4213.6
50°	3780.5	3766.3	3677.9	3692.7	3810.9	3821.5	4086.9	4062.9	3799.6	3907.9	4552.6
52.5°	3931.2	3939.7	3920.6	3944.7	4106.0	4115.9	4473.3	4411.8	4084.8	4228.5	4885.2
55°	4042.3	4059.3	4118.8	4174.0	4417.4	4427.3	4837.8	4743.7	4321.2	4525.7	5198.0
57.5°	4185.3	4161.2	4272.3	4379.9	4713.2	4739.4	5192.3	5063.5	4530.7	4781.9	5412.4
60°	4390.5	4373.5	4459.9	4619.1	5044.4	5086.2	5567.4	5351.6	4684.2	4985.0	5454.2
62.5°	4806.7	4764.2	4777.6	4918.5	5462.0	5517.2	5990.6	5602.8	4760.7	5064.3	5230.6
65°	5428.7	5355.8	5287.9	5385.5	6050.1	6104.6	6468.3	5800.3	4732.3	4910.7	4636.8
67.5°	6212.1	6139.9	6056.4	6148.4	6916.3	6959.5	7057.8	5911.4	4509.4	4319.1	3587.3
70°	6858.3	6831.4	6931.1	7309.8	8299.8	8301.2	7813.6	5819.4	3898.7	3062.2	2075.7
72.5°	6772.6	6756.3	7282.2	8452.7	10043.6	10006.1	8529.1	5123.0	2626.3	1381.4	777.8
75°	5556.1	5661.5	6476.1	8432.2	10669.9	10664.9	8091.1	3256.8	1086.3	572.5	402.0
77.5°	2979.4	3146.4	4204.4	6225.6	8329.6	8454.8	5688.4	1139.4	466.4	366.6	278.1
80°	971.7	1117.4	1675.8	3169.8	5412.4	5389.1	2438.0	447.3	319.2	259.7	192.5
82.5°	412.6	429.6	748.7	1496.8	2777.7	2734.5	776.3	256.9	224.3	177.6	118.9
85°	161.4	180.5	330.5	692.1	1203.1	1176.9	280.2	127.4	143.7	116.1	70.8
87.5°	53.1	64.4	118.2	237.1	374.4	360.9	68.6	43.9	62.3	53.1	25.5
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°	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5
2.5°	1759.3	1770.6	1784.1	1803.9	1820.9	1835.0	1849.9	1859.1	1862.6	1873.3	1872.6
5°	1772.1	1796.8	1830.1	1862.6	1894.5	1913.6	1930.6	1939.1	1946.9	1952.5	1953.9
7.5°	1793.3	1825.1	1877.5	1920.0	1946.9	1962.4	1973.8	1970.9	1973.8	1975.2	1977.3
10°	1811.7	1856.3	1918.6	1958.9	1979.4	1980.1	1977.3	1967.4	1962.4	1963.1	1964.6
12.5°	1833.6	1883.2	1950.4	1984.4	1990.0	1974.5	1962.4	1945.4	1939.1	1936.2	1934.8
15°	1863.4	1920.0	1985.1	1997.8	1983.7	1963.8	1943.3	1915.7	1901.6	1890.2	1893.8
17.5°	1899.4	1961.7	2012.0	2002.8	1972.3	1939.8	1906.5	1864.8	1835.8	1823.7	1824.4
20°	1949.7	2005.6	2032.5	1992.2	1946.2	1896.6	1840.0	1789.0	1762.2	1750.1	1748.7
22.5°	2010.6	2064.3	2052.3	1973.8	1908.6	1829.4	1758.6	1721.1	1707.7	1699.2	1700.6
25°	2083.4	2129.4	2066.5	1946.9	1847.1	1740.2	1685.7	1673.7	1667.3	1661.0	1661.0
27.5°	2178.3	2203.0	2077.1	1907.2	1750.8	1645.4	1625.6	1627.7	1625.6	1615.0	1617.1
30°	2303.5	2298.6	2087.0	1842.8	1640.4	1559.8	1561.2	1570.4	1571.8	1564.7	1568.2
32.5°	2468.4	2418.2	2091.9	1759.3	1535.0	1484.7	1486.2	1496.1	1503.1	1491.1	1496.8
35°	2668.0	2557.6	2084.2	1654.6	1453.6	1413.3	1402.6	1405.5	1407.6	1396.3	1404.1
37.5°	2900.8	2714.0	2049.5	1538.5	1386.4	1343.2	1320.6	1301.4	1290.1	1279.5	1286.6
40°	3156.3	2884.6	1985.8	1425.3	1311.4	1268.9	1234.9	1198.8	1160.6	1146.5	1152.8
42.5°	3423.8	3060.1	1908.6	1317.0	1225.0	1190.3	1154.2	1101.9	1044.6	1015.5	1019.1
45°	3701.2	3239.8	1832.9	1210.2	1136.6	1121.7	1079.9	1017.0	954.7	917.9	915.0
47.5°	3973.0	3409.7	1721.8	1102.6	1053.8	1070.0	1037.5	979.4	910.1	852.1	845.7
50°	4232.7	3568.9	1539.9	993.6	986.5	1054.5	1023.3	939.8	860.6	786.2	779.9
52.5°	4490.3	3697.7	1307.1	894.5	950.4	1050.2	1004.9	912.9	816.0	738.1	729.6
55°	4709.0	3764.2	1082.8	809.6	898.1	1014.1	983.0	881.1	753.0	670.2	663.1
57.5°	4833.5	3710.4	895.9	726.1	825.9	954.7	945.5	813.1	678.0	614.3	605.8
60°	4779.8	3492.5	743.1	653.2	757.2	890.3	880.4	745.9	620.6	560.5	552.0
62.5°	4483.2	3077.1	622.1	589.5	695.0	824.5	815.3	694.2	576.8	518.7	509.5
65°	3885.9	2503.1	527.9	536.4	632.0	745.2	758.6	651.1	542.1	485.5	476.3
67.5°	2963.8	1813.1	454.3	490.4	570.4	667.4	706.3	619.9	513.1	459.3	450.8
70°	1689.3	1029.7	392.1	445.8	515.9	595.2	665.9	595.2	481.9	437.4	431.7
72.5°	640.5	472.7	339.0	401.3	463.5	534.3	621.4	556.2	445.8	412.6	406.9
75°	341.8	288.0	285.2	348.9	403.4	474.9	565.4	518.0	419.0	435.9	450.1
77.5°	232.8	203.8	238.5	298.6	337.6	409.0	506.0	460.0	363.0	361.6	333.3
80°	161.4	144.4	193.9	240.6	261.1	343.9	441.6	394.9	295.8	276.0	264.0
82.5°	97.0	94.1	145.1	179.8	184.7	265.4	365.9	331.2	242.0	210.9	212.3
85°	53.1	55.9	92.7	105.4	107.6	185.4	286.6	256.2	186.1	156.4	157.8
87.5°	14.9	19.1	34.0	41.8	51.7	96.2	170.6	152.2	93.4	65.1	65.1
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)