

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: P883081

Luminaire Tested: **NAV-SB3B-730-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883081
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-SB3B-730-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 450mA 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: 16433 lumens
Efficiency: N/A
Efficacy: 150.5 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

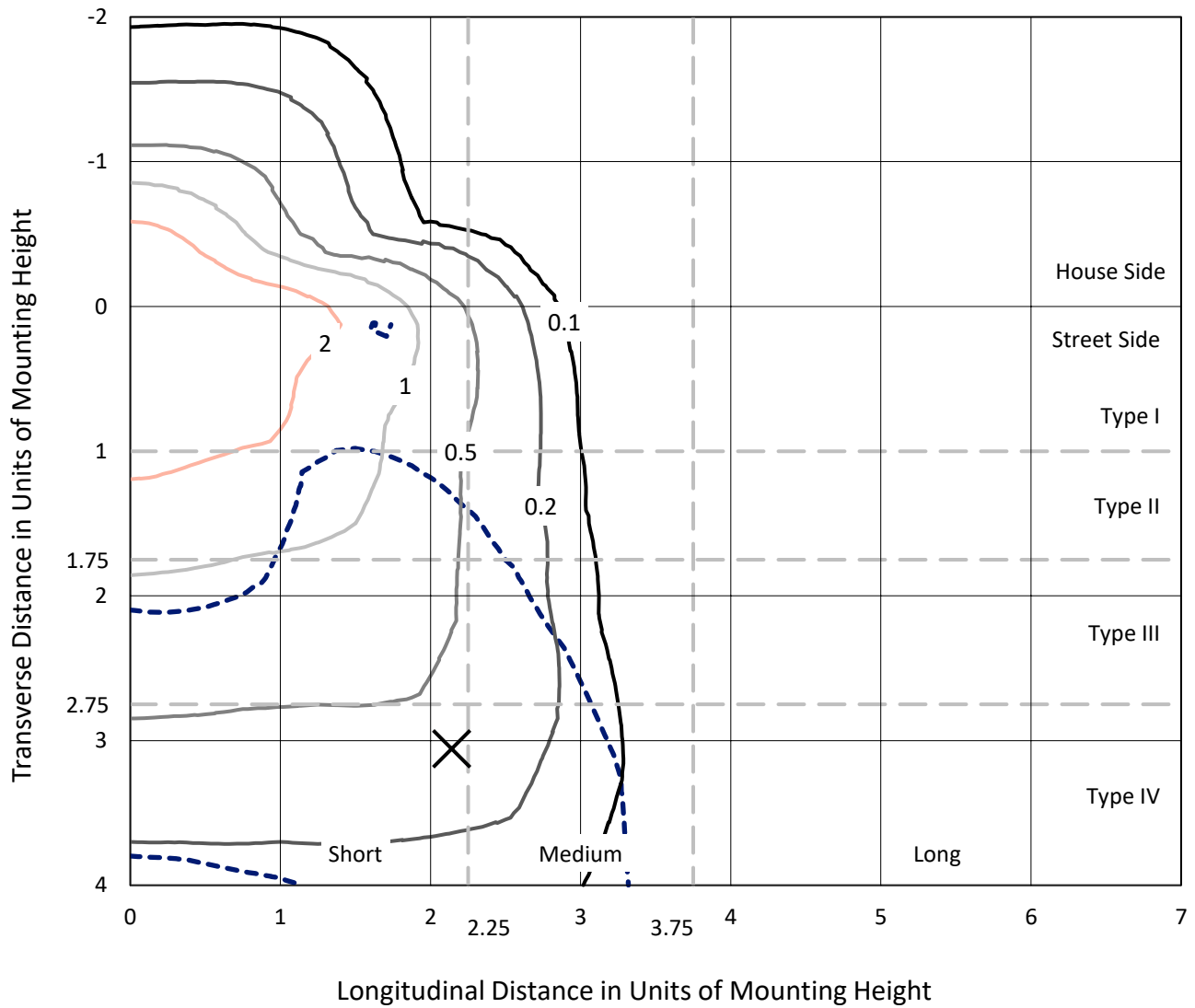
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

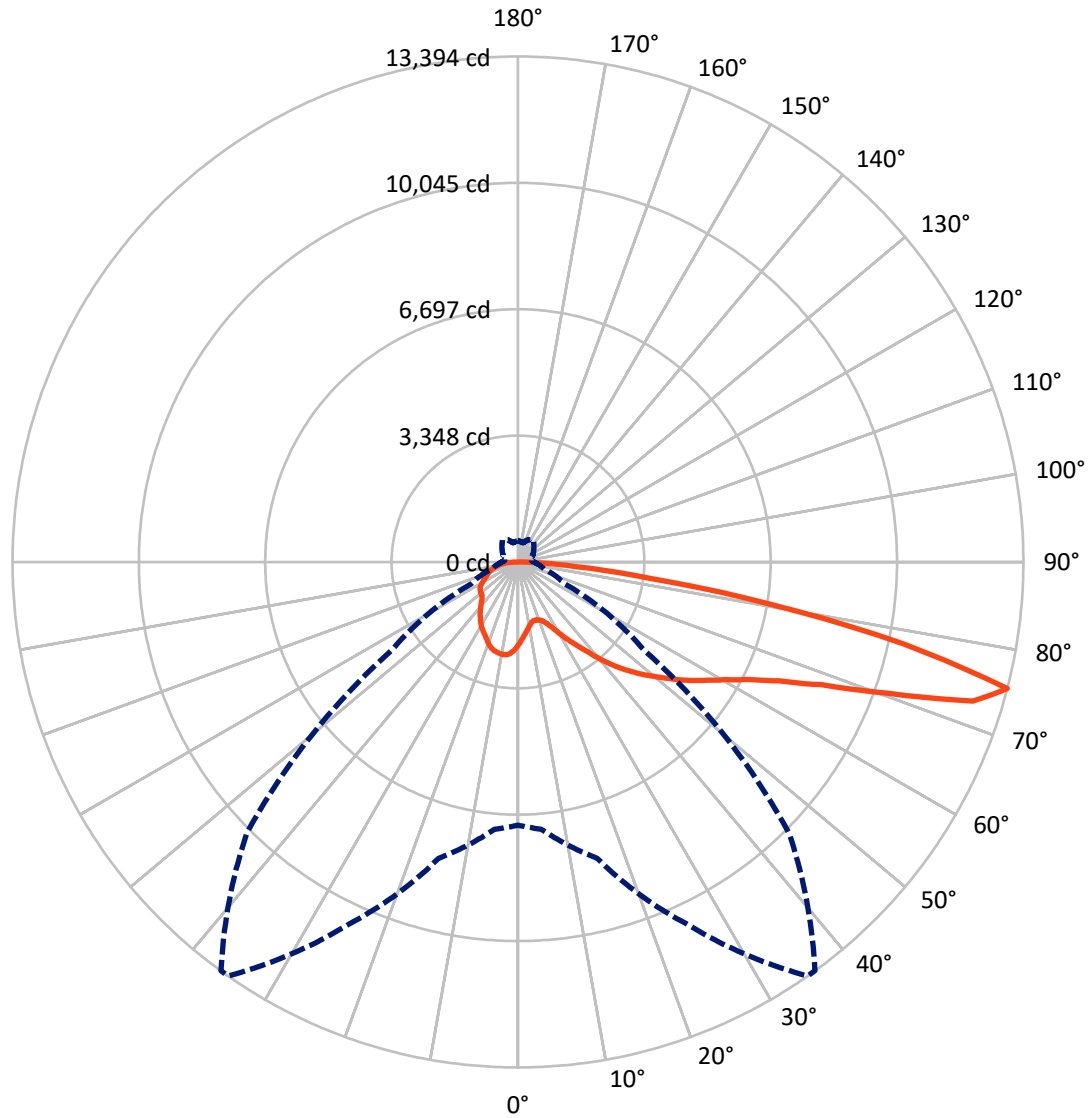
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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
House Side	Lumens	3910.6	0.0	3910.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	12522.4	0.0	12522.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	16433.0	0.0	16433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.3	1.3
10°-20°	598.0	3.6
20°-30°	1004.3	6.1
30°-40°	1560.8	9.5
40°-50°	2316.6	14.1
50°-60°	3198.2	19.5
60°-70°	3880.1	23.6
70°-80°	3206.6	19.5
80°-90°	461.2	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°	16433.0	100.0
0°-180°	16433.0	100.0

Coefficient of Utilization



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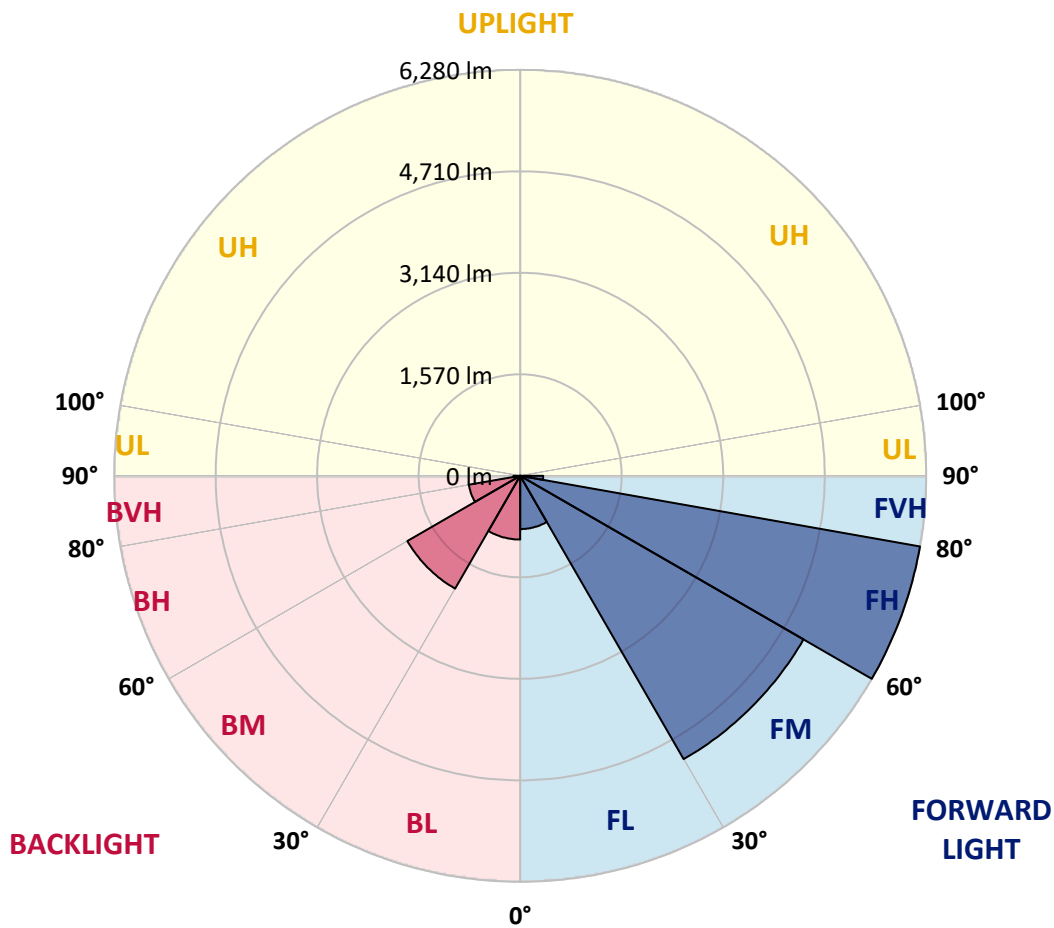
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.1	5.0			
FM (30°-60°)	5060.5	30.8			
FH (60°-80°)	6280.4	38.2			G3/7500
FVH (80°-90°)	357.4	2.2			G3/500
BL (0°-30°)	985.5	6.0	B2/1000		
BM (30°-60°)	2015.0	12.3	B2/2500		
BH (60°-80°)	806.3	4.9	B2/1000		G2/1000
BVH (80°-90°)	103.9	0.6			G2/225
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°	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8
2.5°	2019.2	2031.7	2037.0	2034.3	2047.7	2045.9	2064.5	2087.6	2119.6	2150.7	2196.0
5°	1863.8	1877.1	1888.7	1899.3	1925.1	1933.1	1962.4	2006.8	2065.4	2125.0	2199.6
7.5°	1719.0	1730.5	1748.3	1767.8	1811.4	1819.4	1868.2	1937.5	2019.2	2106.3	2209.4
10°	1600.8	1612.4	1631.0	1653.2	1707.4	1717.2	1779.4	1871.8	1978.4	2088.5	2220.0
12.5°	1550.2	1553.7	1564.4	1586.6	1633.7	1639.9	1708.3	1814.0	1938.4	2075.2	2236.0
15°	1547.5	1554.6	1555.5	1567.1	1606.2	1608.8	1671.9	1776.7	1913.5	2072.5	2260.0
17.5°	1574.2	1579.5	1571.5	1578.6	1611.5	1615.9	1665.7	1759.0	1905.5	2084.1	2300.9
20°	1645.2	1649.7	1625.7	1615.9	1639.9	1643.5	1692.3	1770.5	1913.5	2108.1	2356.8
22.5°	1796.3	1798.9	1740.3	1700.3	1702.1	1703.9	1746.5	1817.6	1944.6	2151.6	2427.9
25°	2031.7	2029.9	1936.6	1859.3	1814.9	1805.1	1833.6	1894.0	1997.0	2209.4	2519.4
27.5°	2307.1	2293.7	2200.5	2085.0	1988.2	1973.9	1967.7	1993.5	2071.7	2285.8	2631.3
30°	2618.0	2605.6	2505.2	2354.2	2220.0	2196.9	2138.3	2125.0	2182.7	2389.7	2786.8
32.5°	2959.1	2951.1	2831.2	2648.2	2468.8	2442.1	2343.5	2308.0	2353.3	2546.9	3003.5
35°	3245.2	3238.1	3138.6	2950.2	2730.8	2698.0	2597.6	2557.6	2580.7	2748.6	3286.9
37.5°	3503.7	3500.1	3414.9	3266.5	3040.0	3000.0	2887.2	2873.8	2869.4	3014.2	3630.7
40°	3743.6	3734.7	3645.8	3567.7	3399.8	3363.3	3263.8	3252.3	3218.5	3341.1	4019.8
42.5°	4009.2	3986.1	3857.3	3820.8	3775.5	3745.3	3685.8	3687.6	3613.0	3709.8	4432.0
45°	4225.9	4212.6	4080.2	4058.9	4107.8	4095.3	4146.9	4160.2	4015.4	4096.2	4860.2
47.5°	4458.7	4446.2	4334.3	4319.2	4451.6	4455.1	4637.2	4641.7	4408.0	4497.8	5289.3
50°	4745.6	4727.9	4616.8	4635.5	4783.8	4797.1	5130.3	5100.1	4769.6	4905.5	5714.8
52.5°	4934.8	4945.5	4921.5	4951.7	5154.3	5166.7	5615.3	5538.0	5127.6	5308.0	6132.4
55°	5074.3	5095.6	5170.3	5239.5	5545.1	5557.6	6072.8	5954.7	5424.3	5681.1	6525.0
57.5°	5253.8	5223.6	5363.0	5498.1	5916.5	5949.3	6517.9	6356.2	5687.3	6002.7	6794.2
60°	5511.4	5490.1	5598.4	5798.3	6332.2	6384.6	6988.7	6717.8	5880.1	6257.6	6846.6
62.5°	6033.7	5980.4	5997.3	6174.1	6856.4	6925.7	7520.0	7033.1	5976.0	6357.1	6565.9
65°	6814.6	6723.1	6637.8	6760.4	7594.6	7663.0	8119.6	7281.0	5940.5	6164.3	5820.5
67.5°	7798.0	7707.4	7602.6	7718.1	8681.9	8736.1	8859.6	7420.5	5660.6	5421.7	4503.1
70°	8609.1	8575.3	8700.6	9175.9	10418.7	10420.5	9808.4	7305.0	4894.0	3843.9	2605.6
72.5°	8501.6	8481.2	9141.2	10610.6	12607.6	12560.5	10706.5	6430.8	3296.7	1734.1	976.3
75°	6974.5	7106.9	8129.4	10584.8	13393.8	13387.6	10156.6	4088.2	1363.6	718.7	504.6
77.5°	3740.0	3949.7	5277.7	7814.9	10456.0	10613.2	7140.6	1430.3	585.4	460.2	349.1
80°	1219.7	1402.7	2103.6	3979.0	6794.2	6764.9	3060.4	561.4	400.7	326.0	241.6
82.5°	517.9	539.2	939.9	1878.9	3486.8	3432.6	974.5	322.5	281.6	223.0	149.2
85°	202.5	226.5	414.9	868.8	1510.2	1477.3	351.8	159.9	180.3	145.7	88.8
87.5°	66.6	80.8	148.4	297.6	469.9	453.1	86.2	55.1	78.2	66.6	32.0
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°	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8	2189.8
2.5°	2208.5	2222.7	2239.6	2264.4	2285.8	2303.5	2322.2	2333.7	2338.2	2351.5	2350.6
5°	2224.5	2255.5	2297.3	2338.2	2378.1	2402.1	2423.4	2434.1	2443.9	2451.0	2452.8
7.5°	2251.1	2291.1	2356.8	2410.1	2443.9	2463.4	2477.6	2474.1	2477.6	2479.4	2482.1
10°	2274.2	2330.2	2408.3	2459.0	2484.7	2485.6	2482.1	2469.6	2463.4	2464.3	2466.1
12.5°	2301.7	2363.9	2448.3	2491.0	2498.1	2478.5	2463.4	2442.1	2434.1	2430.6	2428.8
15°	2339.1	2410.1	2491.9	2507.8	2490.1	2465.2	2439.4	2404.8	2387.0	2372.8	2377.3
17.5°	2384.4	2462.5	2525.6	2514.1	2475.9	2435.0	2393.2	2340.8	2304.4	2289.3	2290.2
20°	2447.4	2517.6	2551.4	2500.7	2443.0	2380.8	2309.7	2245.8	2212.0	2196.9	2195.1
22.5°	2523.8	2591.3	2576.2	2477.6	2395.9	2296.4	2207.6	2160.5	2143.6	2133.0	2134.7
25°	2615.3	2673.1	2594.0	2443.9	2318.6	2184.5	2116.1	2101.0	2093.0	2085.0	2085.0
27.5°	2734.4	2765.5	2607.3	2394.1	2197.8	2065.4	2040.6	2043.2	2040.6	2027.2	2029.9
30°	2891.6	2885.4	2619.8	2313.3	2059.2	1957.9	1959.7	1971.3	1973.0	1964.2	1968.6
32.5°	3098.6	3035.5	2626.0	2208.5	1926.9	1863.8	1865.6	1878.0	1886.9	1871.8	1878.9
35°	3349.1	3210.5	2616.2	2077.0	1824.7	1774.1	1760.7	1764.3	1766.9	1752.7	1762.5
37.5°	3641.4	3406.9	2572.7	1931.3	1740.3	1686.1	1657.7	1633.7	1619.5	1606.2	1615.0
40°	3962.1	3621.0	2492.7	1789.2	1646.1	1592.8	1550.2	1504.9	1456.9	1439.1	1447.1
42.5°	4297.9	3841.3	2395.9	1653.2	1537.8	1494.2	1448.9	1383.2	1311.2	1274.8	1279.2
45°	4646.1	4066.9	2300.9	1519.1	1426.7	1408.1	1355.6	1276.6	1198.4	1152.2	1148.7
47.5°	4987.3	4280.1	2161.4	1384.1	1322.8	1343.2	1302.3	1229.5	1142.4	1069.6	1061.6
50°	5313.3	4480.0	1933.1	1247.3	1238.4	1323.7	1284.6	1179.7	1080.2	987.0	979.0
52.5°	5636.6	4641.7	1640.8	1122.9	1193.1	1318.3	1261.5	1146.0	1024.3	926.6	915.9
55°	5911.2	4725.2	1359.2	1016.3	1127.3	1273.0	1233.9	1106.0	945.2	841.3	832.4
57.5°	6067.5	4657.7	1124.7	911.5	1036.7	1198.4	1186.8	1020.7	851.0	771.1	760.4
60°	6000.0	4384.1	932.8	820.0	950.5	1117.6	1105.1	936.3	779.1	703.6	692.9
62.5°	5627.8	3862.6	780.9	740.0	872.4	1034.9	1023.4	871.5	724.0	651.2	639.6
65°	4878.0	3142.1	662.7	673.4	793.3	935.4	952.3	817.3	680.5	609.4	597.9
67.5°	3720.5	2276.0	570.3	615.6	716.0	837.7	886.6	778.2	644.1	576.5	565.9
70°	2120.5	1292.6	492.2	559.7	647.6	747.1	835.9	747.1	605.0	549.0	541.9
72.5°	804.0	593.4	425.5	503.7	581.9	670.7	780.0	698.3	559.7	517.9	510.8
75°	429.1	361.6	358.0	438.0	506.4	596.1	709.8	650.3	525.9	547.2	565.0
77.5°	292.3	255.8	299.4	374.9	423.7	513.5	635.2	577.4	455.7	454.0	418.4
80°	202.5	181.2	243.4	302.0	327.8	431.7	554.3	495.7	371.3	346.5	331.4
82.5°	121.7	118.2	182.1	225.6	231.9	333.1	459.3	415.8	303.8	264.7	266.5
85°	66.6	70.2	116.4	132.4	135.0	232.8	359.8	321.6	233.6	196.3	198.1
87.5°	18.7	24.0	42.6	52.4	64.9	120.8	214.1	191.0	117.3	81.7	81.7
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)