

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: P966584

Luminaire Tested: **NAV-SB4C-722-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB4C-722-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25886.4 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

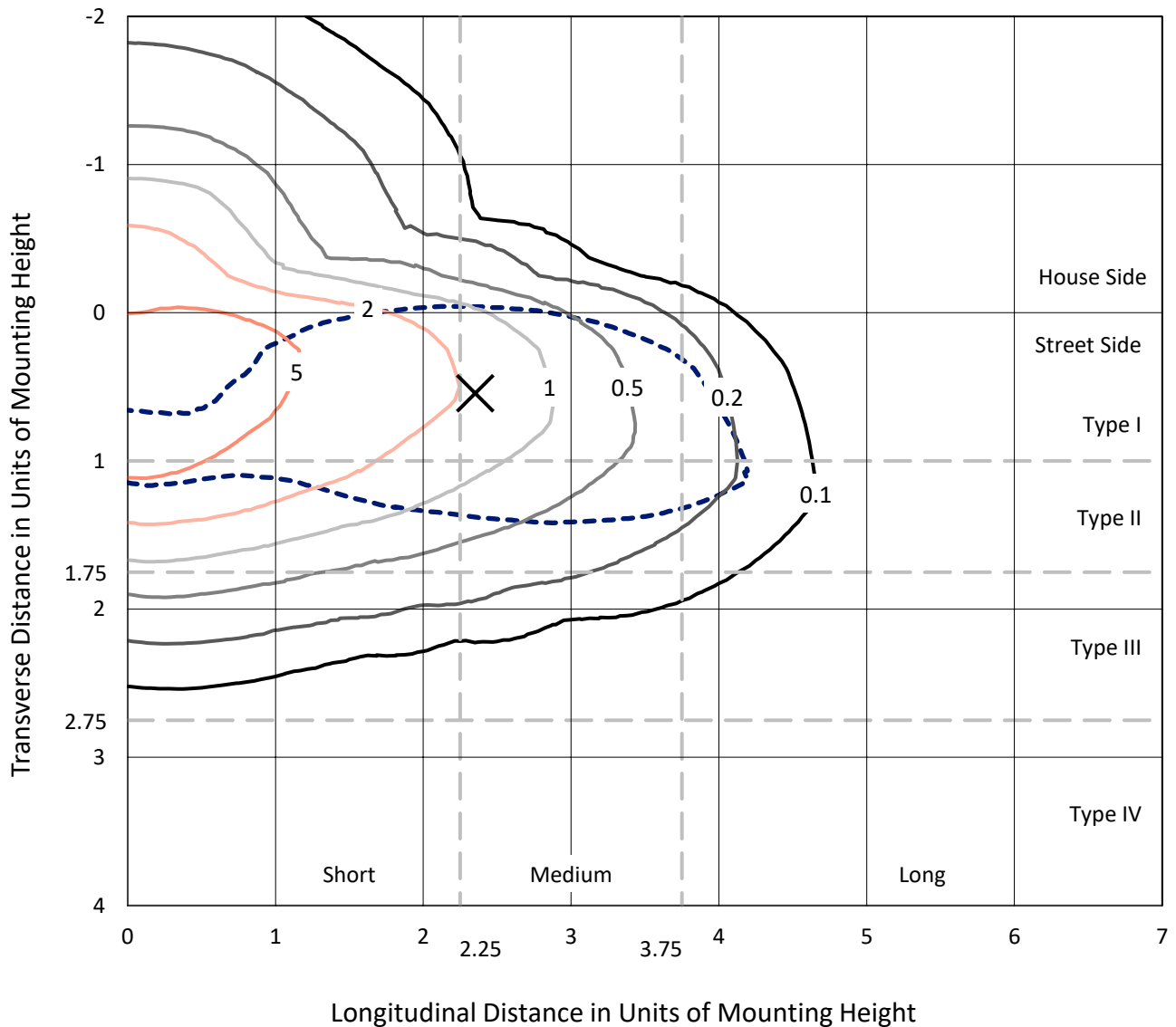
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

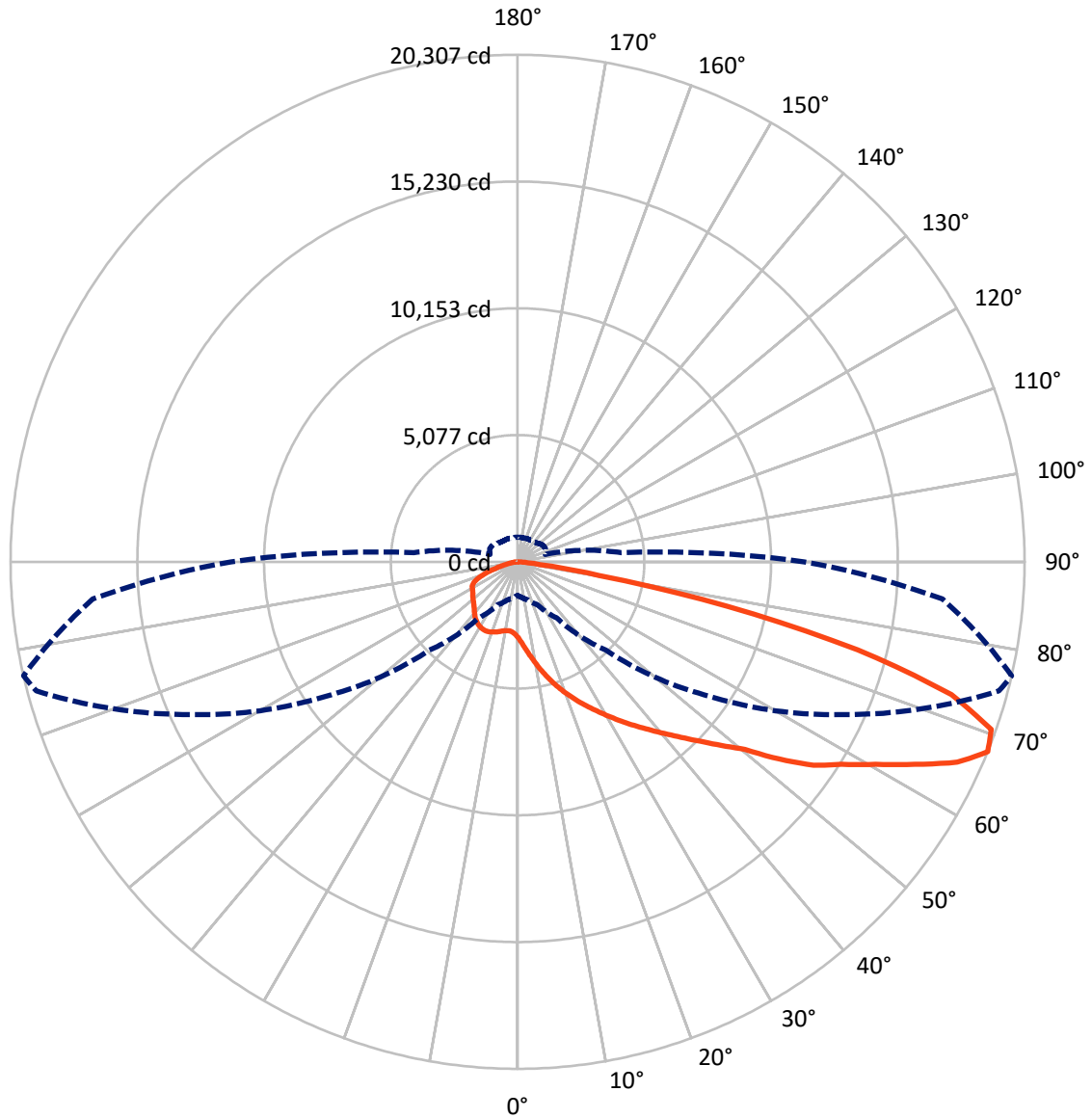
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4896.7	0.0	4896.7
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	20989.7	0.0	20989.7
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	25886.4	0.0	25886.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.6	1.3
10°-20°	1169.6	4.5
20°-30°	2208.3	8.5
30°-40°	3557.5	13.7
40°-50°	4866.1	18.8
50°-60°	5488.9	21.2
60°-70°	5123.2	19.8
70°-80°	2808.4	10.8
80°-90°	338.8	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°	25886.4	100.0
0°-180°	25886.4	100.0

**Coefficient of Utilization**

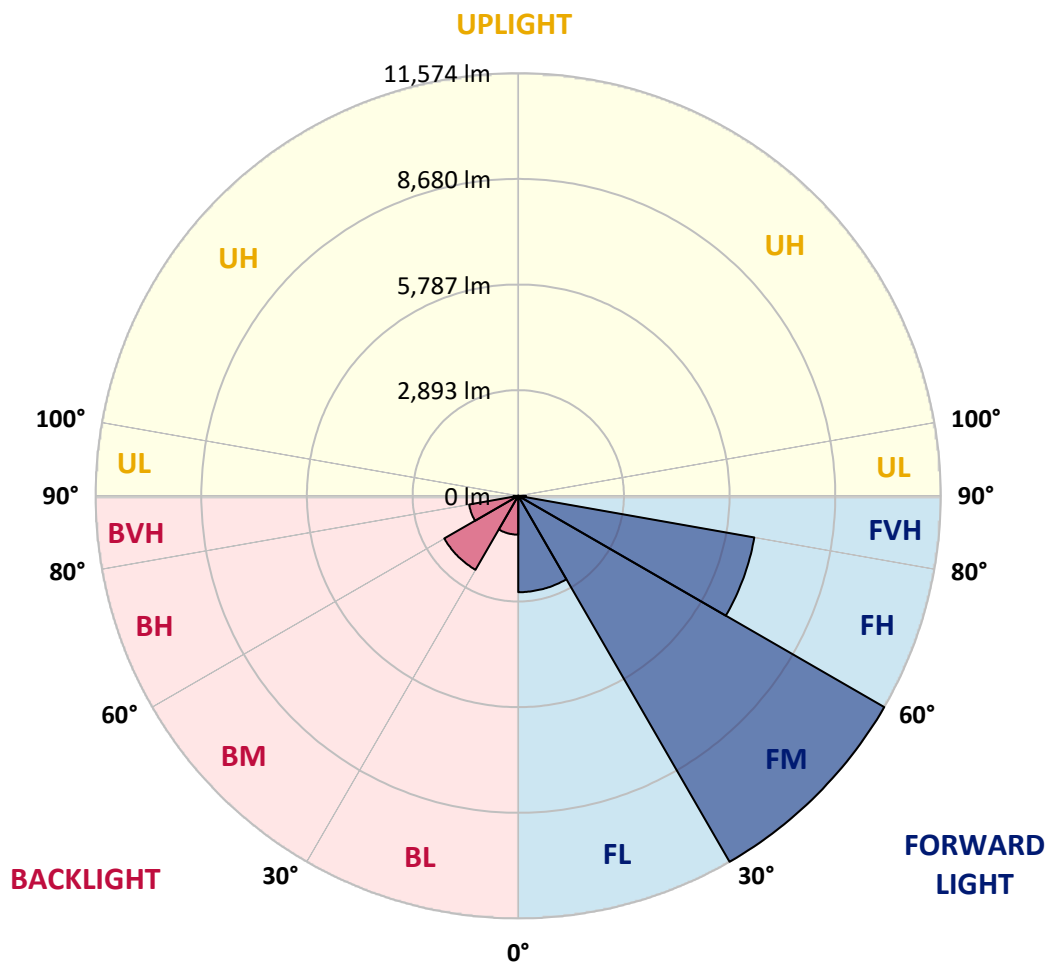


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2638.8	10.2			
FM (30°-60°)	11573.5	44.7			
FH (60°-80°)	6565.6	25.4			G3/7500
FVH (80°-90°)	211.9	0.8			G2/225
BL (0°-30°)	1064.6	4.1	B3/2500		
BM (30°-60°)	2339.0	9.0	B2/2500		
BH (60°-80°)	1366.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	126.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3
2.5°	3803.0	3829.7	3796.3	3796.3	3684.1	3625.2	3513.0	3427.5	3273.7	3247.1	3145.5
5°	4495.1	4528.6	4481.7	4461.7	4329.4	4207.8	4019.4	3833.7	3559.7	3531.6	3292.5
7.5°	5030.9	5073.8	5032.2	5010.9	4893.3	4757.0	4536.5	4277.3	3891.1	3836.4	3490.2
10°	5467.9	5474.6	5461.2	5469.2	5377.0	5264.8	5039.0	4736.9	4254.6	4179.7	3729.5
12.5°	5715.1	5745.8	5772.6	5820.7	5804.7	5735.2	5532.0	5171.2	4639.5	4543.2	3990.0
15°	5831.3	5884.8	5944.9	6055.8	6145.4	6162.7	6007.7	5637.6	5030.9	4914.7	4253.2
17.5°	5872.7	5923.6	6018.4	6178.8	6371.2	6500.9	6431.4	6090.5	5418.5	5284.8	4529.9
20°	6082.6	6097.3	6154.7	6307.0	6515.5	6730.7	6782.7	6526.2	5801.9	5650.9	4815.9
22.5°	6531.5	6502.2	6518.2	6587.7	6737.3	6945.8	7064.7	6911.1	6196.1	6022.4	5104.4
25°	7273.2	7187.6	7102.1	7022.0	7098.1	7215.7	7350.7	7295.8	6609.1	6388.5	5395.7
27.5°	8209.8	8105.6	7917.2	7654.0	7561.8	7603.2	7663.3	7652.6	6991.2	6768.1	5696.4
30°	9131.8	9010.3	8785.8	8405.0	8161.8	8052.2	8006.8	7976.0	7406.8	7169.0	5999.7
32.5°	9868.2	9771.9	9551.5	9125.2	8772.5	8585.4	8434.3	8324.7	7841.0	7603.2	6320.5
35°	10512.2	10422.7	10170.2	9705.1	9321.7	9122.5	8924.8	8690.9	8292.8	8052.2	6665.2
37.5°	11100.1	11010.7	10664.5	10180.8	9794.7	9657.0	9480.6	9083.8	8745.7	8518.6	7030.0
40°	11471.6	11451.6	11128.2	10580.4	10179.5	10111.3	10052.6	9539.5	9248.2	9037.0	7430.8
42.5°	11566.5	11610.6	11354.0	10903.7	10521.5	10466.8	10604.4	10055.2	9812.0	9610.2	7885.1
45°	11338.0	11464.9	11296.6	10990.6	10764.8	10735.3	11093.5	10619.1	10436.0	10251.6	8433.0
47.5°	10759.4	10974.6	10905.1	10862.3	10830.3	10957.1	11523.8	11217.7	11142.9	10982.6	9058.3
50°	9591.5	9999.1	10120.6	10390.6	10700.6	11129.6	11915.2	11871.1	11968.7	11807.1	9820.0
52.5°	7572.5	8133.7	8839.2	9515.4	10302.4	11072.0	12345.5	12809.2	13220.8	13132.6	11030.6
55°	6251.0	6503.5	7046.0	8286.0	9530.0	10830.3	12539.3	13566.9	14463.5	14384.6	11948.6
57.5°	5235.4	5461.2	5795.2	6830.9	8362.2	10281.1	12659.6	14029.2	15314.6	15306.6	12854.6
60°	4146.3	4385.6	4727.6	5461.2	6997.9	9332.3	12632.8	14555.7	16401.0	16467.9	13959.7
62.5°	2917.0	3180.3	3559.7	4243.9	5604.2	8102.9	12087.6	14936.5	17679.8	17861.5	15289.3
65°	1917.5	2091.2	2377.2	2967.8	4175.7	6522.2	11046.7	14985.9	19048.1	19355.5	16537.4
67.5°	1344.3	1411.1	1579.4	1900.1	2752.6	5001.6	9388.4	14474.1	19960.7	20306.9	17078.4
70°	1049.0	1082.4	1167.9	1296.1	1729.1	3363.3	7194.4	13143.3	19765.7	20126.5	16513.3
72.5°	906.0	938.1	970.1	986.2	1159.9	2076.5	4873.3	10989.2	17928.4	18172.8	14357.9
75°	821.7	829.8	856.5	851.2	884.6	1347.0	2812.8	8006.8	14145.4	14061.3	10599.1
77.5°	690.8	701.5	745.6	738.9	785.7	920.7	1460.5	5167.2	9170.6	8598.7	5899.5
80°	585.3	590.6	638.7	630.7	682.9	666.8	745.6	2633.7	3889.8	3295.2	1701.0
82.5°	203.2	251.2	487.7	502.5	521.1	403.5	430.3	1074.3	1187.9	910.0	356.8
85°	98.9	105.6	248.6	352.8	351.5	203.2	209.8	383.5	374.1	294.0	118.9
87.5°	16.0	20.1	29.4	137.7	109.6	53.4	72.2	74.8	77.5	66.8	26.8
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°	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3
2.5°	3070.7	3003.9	2863.5	2734.0	2632.4	2534.8	2480.1	2433.2	2406.6	2401.3	2401.3
5°	3153.5	3015.9	2760.6	2545.6	2405.3	2301.0	2246.2	2211.4	2194.1	2183.5	2182.1
7.5°	3272.4	3070.7	2707.2	2462.7	2315.7	2240.9	2212.8	2207.4	2206.1	2207.4	2211.4
10°	3436.8	3160.2	2701.9	2442.7	2319.7	2278.3	2276.9	2278.3	2283.6	2284.9	2286.3
12.5°	3614.6	3252.4	2723.2	2460.0	2370.5	2347.8	2343.8	2342.4	2346.4	2349.1	2350.4
15°	3808.3	3374.0	2759.3	2497.4	2426.6	2402.6	2398.6	2390.5	2389.2	2387.8	2386.5
17.5°	4007.3	3494.2	2799.4	2537.5	2462.7	2429.2	2414.6	2395.8	2381.2	2377.2	2381.2
20°	4209.2	3613.2	2827.5	2557.6	2465.3	2418.6	2389.2	2357.1	2331.8	2317.0	2322.3
22.5°	4424.3	3737.5	2844.9	2552.2	2441.3	2377.2	2323.7	2286.3	2247.5	2222.2	2223.5
25°	4634.1	3845.7	2843.6	2524.2	2394.5	2313.0	2244.9	2196.8	2143.4	2116.6	2116.6
27.5°	4835.8	3943.3	2810.1	2474.8	2327.8	2236.9	2155.4	2097.9	2045.8	2020.4	2019.0
30°	5044.3	4024.8	2758.0	2402.6	2248.8	2148.7	2059.1	2009.7	1963.0	1938.9	1937.6
32.5°	5251.4	4099.6	2684.5	2313.0	2158.0	2061.8	1973.6	1928.2	1900.1	1900.1	1901.5
35°	5470.5	4151.7	2587.0	2208.8	2061.8	1969.6	1900.1	1873.4	1870.7	1854.7	1850.7
37.5°	5701.8	4185.1	2468.0	2101.9	1967.0	1880.1	1858.7	1826.7	1799.9	1765.2	1759.8
40°	5944.9	4218.5	2325.1	1991.0	1866.7	1818.7	1809.2	1766.5	1690.3	1604.8	1592.8
42.5°	6240.2	4241.2	2176.7	1880.1	1761.2	1745.2	1758.5	1685.0	1563.4	1499.3	1500.6
45°	6582.3	4278.7	2040.5	1770.5	1652.9	1652.9	1709.1	1612.8	1512.6	1472.5	1479.2
47.5°	7026.0	4365.5	1913.5	1650.2	1552.7	1579.4	1599.5	1526.0	1469.8	1420.4	1419.1
50°	7667.3	4574.0	1782.6	1528.7	1476.5	1530.0	1501.9	1459.2	1393.7	1353.6	1349.6
52.5°	8463.7	4696.9	1666.3	1419.1	1411.1	1464.5	1424.4	1384.4	1334.9	1281.5	1270.8
55°	9006.3	4719.6	1568.8	1339.0	1366.9	1361.6	1347.0	1310.9	1284.1	1213.3	1214.6
57.5°	9613.0	4765.0	1488.6	1290.8	1339.0	1280.1	1274.8	1244.0	1209.3	1161.2	1145.1
60°	10338.5	4835.8	1419.1	1272.1	1314.9	1226.7	1200.0	1187.9	1153.1	1129.1	1135.8
62.5°	11129.6	4900.0	1348.3	1274.8	1286.8	1174.5	1134.5	1130.5	1109.0	1101.1	1101.1
65°	11669.4	4724.9	1260.0	1272.1	1242.7	1121.1	1070.3	1069.0	1051.6	1049.0	1047.7
67.5°	11481.0	4170.4	1141.1	1234.7	1197.3	1067.6	1011.6	1006.1	983.5	984.8	984.8
70°	10537.6	3379.3	976.8	1142.5	1141.1	1019.6	950.1	932.6	902.0	907.3	912.7
72.5°	8768.5	2504.1	756.3	988.8	1051.6	975.5	879.2	851.2	812.4	817.7	816.4
75°	6332.4	1702.3	550.5	752.3	915.3	923.3	809.7	761.7	714.9	722.9	725.6
77.5°	3240.4	964.7	404.9	518.4	718.9	839.2	746.9	682.9	672.1	746.9	736.3
80°	1057.0	483.7	280.6	363.5	471.7	686.9	654.8	581.3	578.6	595.9	511.8
82.5°	315.4	204.5	180.4	239.2	260.6	526.4	565.2	439.6	378.1	398.2	411.5
85°	108.2	98.9	102.9	118.9	124.2	308.6	395.5	291.3	275.3	303.3	299.3
87.5°	25.4	34.7	29.4	26.8	26.8	74.8	153.6	121.6	168.4	112.2	108.2
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)