

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: P970304

Luminaire Tested: **NAV-SB6B-727-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970304  
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-SB6B-727-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33066.5 lumens  
Efficiency: N/A  
Efficacy: 150.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

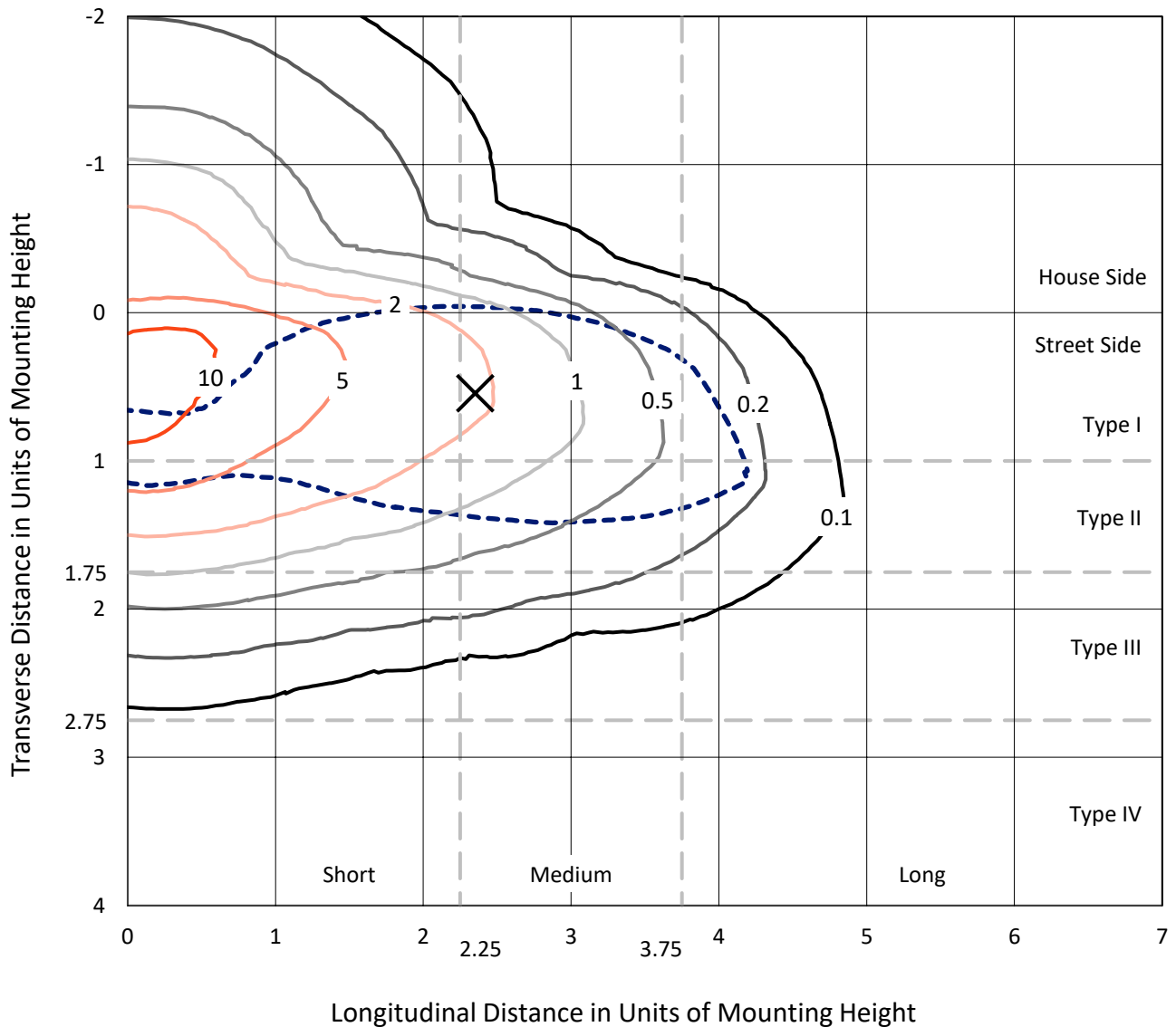
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

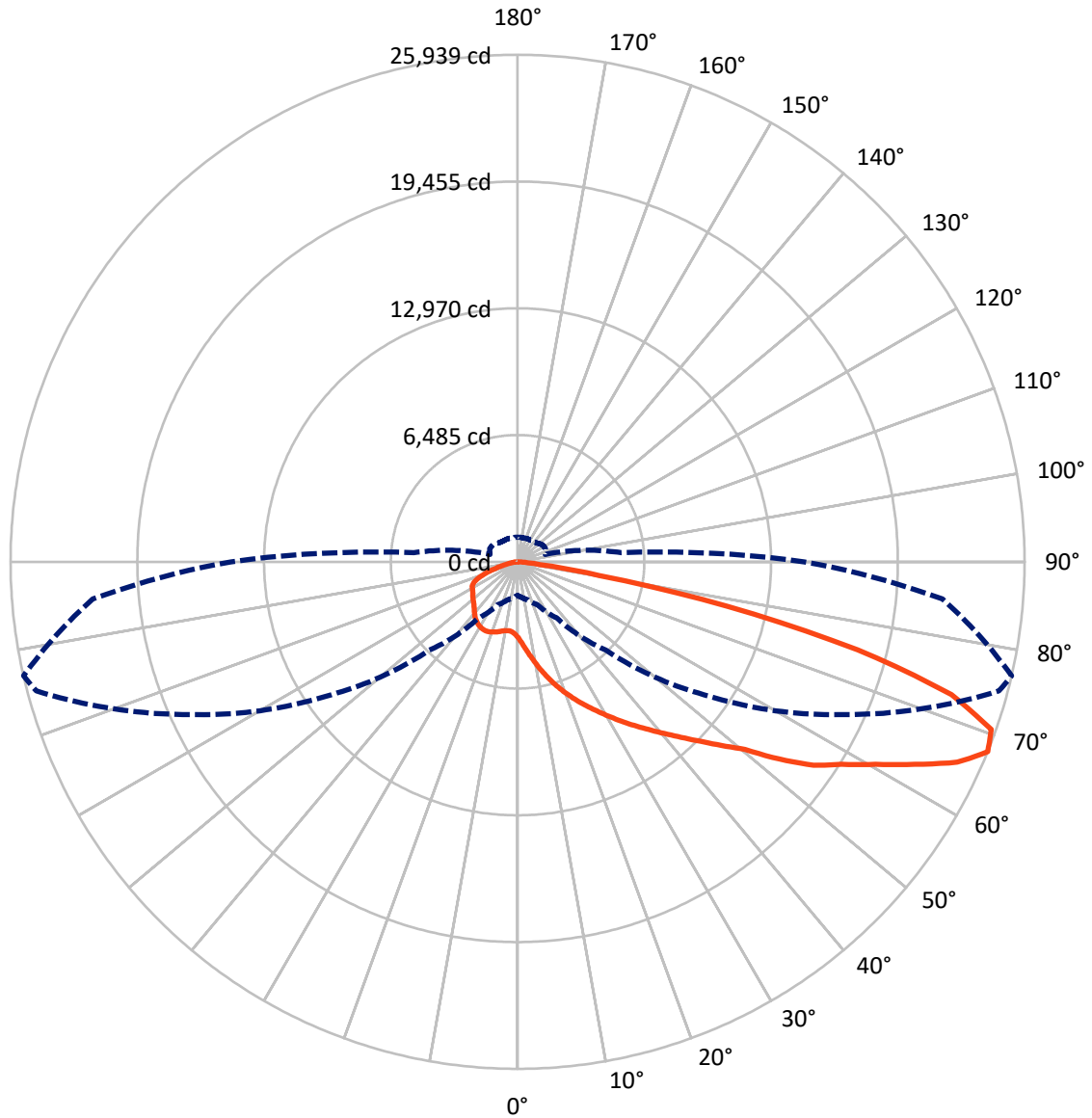
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	6254.8	0.0	6254.8
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	26811.6	0.0	26811.6
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	33066.5	0.0	33066.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.9	1.3
10°-20°	1494.0	4.5
20°-30°	2820.8	8.5
30°-40°	4544.3	13.7
40°-50°	6215.8	18.8
50°-60°	7011.4	21.2
60°-70°	6544.3	19.8
70°-80°	3587.4	10.8
80°-90°	432.7	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°	33066.5	100.0
0°-180°	33066.5	100.0

**Coefficient of Utilization**

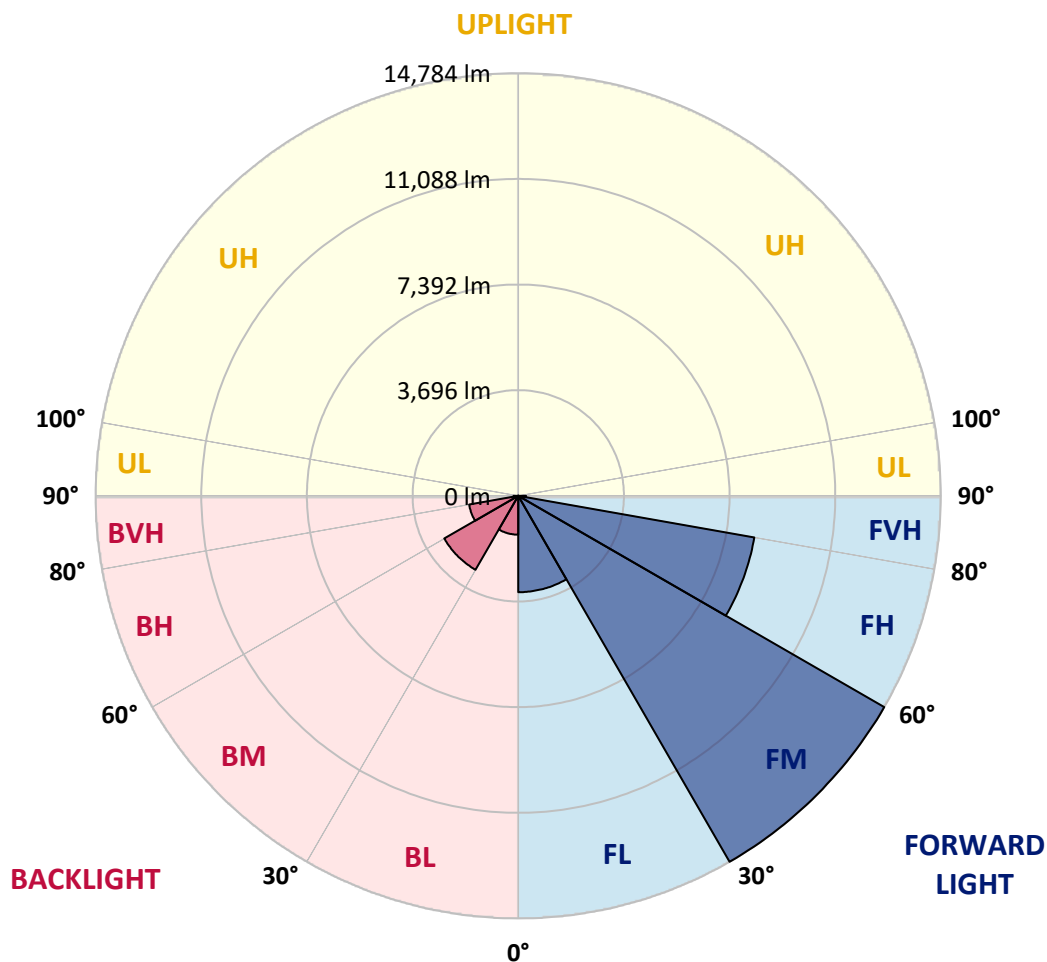


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3370.7	10.2			
FM (30°-60°)	14783.7	44.7			
FH (60°-80°)	8386.6	25.4			G4/12000
FVH (80°-90°)	270.6	0.8			G3/500
BL (0°-30°)	1359.9	4.1	B3/2500		
BM (30°-60°)	2987.8	9.0	B3/5000		
BH (60°-80°)	1745.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	162.1	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-G4**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7
2.5°	4857.8	4891.9	4849.3	4849.3	4705.9	4630.7	4487.3	4378.2	4181.8	4147.7	4018.0
5°	5741.9	5784.6	5724.8	5699.3	5530.3	5375.0	5134.3	4897.0	4547.1	4511.2	4205.8
7.5°	6426.3	6481.0	6428.1	6400.8	6250.6	6076.5	5794.8	5463.7	4970.4	4900.4	4458.3
10°	6984.6	6993.1	6976.0	6986.2	6868.4	6725.1	6436.6	6050.9	5434.7	5339.1	4763.9
12.5°	7300.3	7339.6	7373.7	7435.1	7414.6	7325.9	7066.5	6605.6	5926.2	5803.3	5096.7
15°	7448.8	7517.0	7593.9	7735.6	7850.0	7872.1	7674.1	7201.3	6426.3	6277.9	5433.0
17.5°	7501.7	7566.6	7687.8	7892.6	8138.4	8303.9	8215.2	7780.0	6921.4	6750.6	5786.3
20°	7769.7	7788.5	7861.9	8056.5	8322.7	8597.5	8664.1	8336.4	7411.3	7218.4	6151.5
22.5°	8343.2	8305.7	8326.2	8414.9	8606.1	8872.3	9024.2	8827.9	7914.7	7692.9	6520.2
25°	9290.5	9181.2	9072.1	8969.7	9066.9	9217.1	9389.5	9319.5	8442.2	8160.5	6892.4
27.5°	10487.1	10353.9	10113.3	9777.0	9659.2	9712.1	9789.0	9775.3	8930.4	8645.4	7276.4
30°	11664.8	11509.4	11222.7	10736.3	10425.6	10285.7	10227.6	10188.3	9461.2	9157.3	7663.8
32.5°	12605.2	12482.3	12200.8	11656.3	11205.6	10966.7	10773.8	10633.9	10016.0	9712.1	8073.5
35°	13428.0	13313.6	12991.1	12397.1	11907.1	11652.8	11400.3	11101.5	10592.9	10285.7	8513.9
37.5°	14179.0	14064.6	13622.6	13004.7	12511.4	12335.6	12110.3	11603.3	11171.5	10881.3	8979.9
40°	14653.5	14627.9	14214.9	13515.0	13002.9	12915.9	12840.8	12185.4	11813.3	11543.6	9491.9
42.5°	14774.8	14831.0	14503.3	13928.1	13439.9	13370.0	13545.8	12844.3	12533.6	12275.8	10072.3
45°	14482.8	14645.0	14430.0	14039.0	13750.6	13713.1	14170.5	13564.5	13330.7	13095.2	10772.1
47.5°	13743.7	14018.6	13929.9	13875.2	13834.2	13996.4	14720.1	14329.2	14233.7	14028.8	11570.9
50°	12251.9	12772.5	12927.9	13272.6	13668.7	14216.5	15220.2	15163.8	15288.5	15082.0	12543.8
52.5°	9672.8	10389.7	11291.0	12154.7	13160.0	14143.2	15769.8	16362.1	16887.8	16775.1	14090.3
55°	7984.7	8307.3	9000.3	10584.4	12173.4	13834.2	16017.4	17329.9	18475.2	18374.6	15262.9
57.5°	6687.5	6976.0	7402.8	8725.5	10681.6	13132.7	16170.9	17920.5	19562.5	19552.3	16420.1
60°	5296.5	5601.9	6038.9	6976.0	8938.9	11920.9	16136.8	18593.0	20950.2	21035.6	17831.7
62.5°	3726.1	4062.4	4547.1	5421.0	7158.6	10350.4	15440.4	19079.5	22583.6	22815.8	19530.0
65°	2449.3	2671.3	3036.6	3791.0	5334.0	8331.3	14110.8	19142.6	24331.6	24724.1	21124.3
67.5°	1717.1	1802.5	2017.5	2427.2	3516.2	6388.8	11992.5	18488.8	25497.3	25939.4	21815.6
70°	1339.9	1382.5	1491.8	1655.7	2208.7	4296.2	9189.8	16788.8	25248.1	25708.9	21093.6
72.5°	1157.2	1198.2	1239.2	1259.7	1481.5	2652.5	6224.9	14037.4	22901.2	23213.5	18340.3
75°	1049.7	1060.0	1094.1	1087.3	1130.0	1720.6	3592.9	10227.6	18069.0	17961.5	13538.9
77.5°	882.4	896.2	952.4	943.9	1003.7	1176.1	1865.6	6600.5	11714.3	10983.7	7535.9
80°	747.6	754.4	815.9	805.6	872.2	851.8	952.4	3364.3	4968.7	4209.2	2172.9
82.5°	259.4	320.9	623.0	641.8	665.6	515.5	549.6	1372.4	1517.4	1162.4	455.7
85°	126.3	134.9	317.4	450.6	449.0	259.4	267.9	489.8	478.0	375.6	151.9
87.5°	20.5	25.6	37.5	175.8	140.0	68.3	92.1	95.6	99.0	85.4	34.1
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°	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7	3879.7
2.5°	3922.4	3837.1	3657.8	3492.3	3362.5	3238.0	3168.0	3108.2	3074.1	3067.2	3067.2
5°	4028.2	3852.5	3526.4	3251.6	3072.3	2939.3	2869.3	2824.9	2802.7	2789.0	2787.3
7.5°	4180.2	3922.4	3458.1	3145.7	2958.0	2862.4	2826.5	2819.8	2818.0	2819.8	2824.9
10°	4390.1	4036.8	3451.3	3120.2	2963.2	2910.2	2908.5	2910.2	2917.0	2918.8	2920.4
12.5°	4617.1	4154.5	3478.6	3142.3	3028.0	2998.9	2993.8	2992.2	2997.3	3000.7	3002.4
15°	4864.5	4309.8	3524.7	3190.1	3099.7	3069.0	3063.8	3053.6	3051.9	3050.2	3048.5
17.5°	5119.0	4463.5	3575.9	3241.4	3145.7	3103.1	3084.3	3060.4	3041.7	3036.6	3041.7
20°	5376.6	4615.4	3611.8	3267.0	3149.2	3089.5	3051.9	3010.9	2978.5	2959.7	2966.6
22.5°	5651.4	4774.1	3633.9	3260.1	3118.5	3036.6	2968.3	2920.4	2870.9	2838.5	2840.3
25°	5919.5	4912.4	3632.2	3224.2	3058.7	2954.6	2867.5	2806.1	2737.9	2703.6	2703.6
27.5°	6177.2	5037.0	3589.6	3161.1	2973.4	2857.3	2753.1	2679.8	2613.2	2580.7	2579.1
30°	6443.5	5141.1	3523.0	3069.0	2872.7	2744.6	2630.3	2567.1	2507.4	2476.7	2475.0
32.5°	6708.0	5236.7	3429.1	2954.6	2756.6	2633.7	2521.1	2463.0	2427.2	2427.2	2428.8
35°	6987.9	5303.2	3304.5	2821.4	2633.7	2516.0	2427.2	2393.1	2389.6	2369.2	2364.1
37.5°	7283.2	5345.9	3152.6	2684.9	2512.5	2401.6	2374.3	2333.3	2299.2	2254.8	2247.9
40°	7593.9	5388.6	2969.9	2543.2	2384.5	2323.1	2311.1	2256.5	2159.2	2050.0	2034.6
42.5°	7971.1	5417.6	2780.5	2401.6	2249.7	2229.2	2246.3	2152.4	1997.0	1915.1	1916.9
45°	8408.1	5465.4	2606.4	2261.6	2111.4	2111.4	2183.0	2060.1	1932.2	1881.0	1889.5
47.5°	8974.8	5576.4	2444.2	2108.0	1983.4	2017.5	2043.1	1949.2	1877.6	1814.5	1812.7
50°	9794.1	5842.6	2276.9	1952.6	1886.1	1954.4	1918.5	1863.9	1780.2	1729.1	1723.9
52.5°	10811.4	5999.6	2128.5	1812.7	1802.5	1870.7	1819.6	1768.3	1705.2	1636.9	1623.2
55°	11504.3	6028.6	2003.9	1710.3	1746.1	1739.3	1720.6	1674.4	1640.3	1549.8	1551.5
57.5°	12279.3	6086.8	1901.5	1648.8	1710.3	1635.2	1628.3	1589.1	1544.7	1483.3	1462.8
60°	13206.1	6177.2	1812.7	1624.9	1679.6	1566.9	1532.8	1517.4	1473.0	1442.3	1450.9
62.5°	14216.5	6259.2	1722.2	1628.3	1643.7	1500.3	1449.1	1444.0	1416.8	1406.5	1406.5
65°	14906.2	6035.5	1609.6	1624.9	1587.4	1432.0	1367.2	1365.5	1343.3	1339.9	1338.2
67.5°	14665.5	5327.1	1457.7	1577.2	1529.4	1363.8	1292.1	1285.2	1256.2	1258.0	1258.0
70°	13460.4	4316.7	1247.7	1459.4	1457.7	1302.4	1213.6	1191.4	1152.1	1159.0	1165.8
72.5°	11200.5	3198.7	966.1	1263.1	1343.3	1246.0	1123.1	1087.3	1037.8	1044.6	1042.9
75°	8088.9	2174.5	703.3	960.9	1169.2	1179.5	1034.3	972.9	913.2	923.4	926.8
77.5°	4139.2	1232.4	517.2	662.3	918.3	1071.9	954.2	872.2	858.5	954.2	940.4
80°	1350.1	617.9	358.4	464.2	602.5	877.3	836.4	742.5	739.1	761.3	653.7
82.5°	402.8	261.2	230.4	305.6	332.8	672.5	722.0	561.6	483.1	508.6	525.7
85°	138.3	126.3	131.4	151.9	158.8	394.3	505.2	372.1	351.6	387.4	382.3
87.5°	32.4	44.4	37.5	34.1	34.1	95.6	196.3	155.3	215.0	143.4	138.3
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)