

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: P969777

Luminaire Tested: **NAV-SB6A-727-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969777  
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-SB6A-727-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26341.5 lumens  
Efficiency: N/A  
Efficacy: 154.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

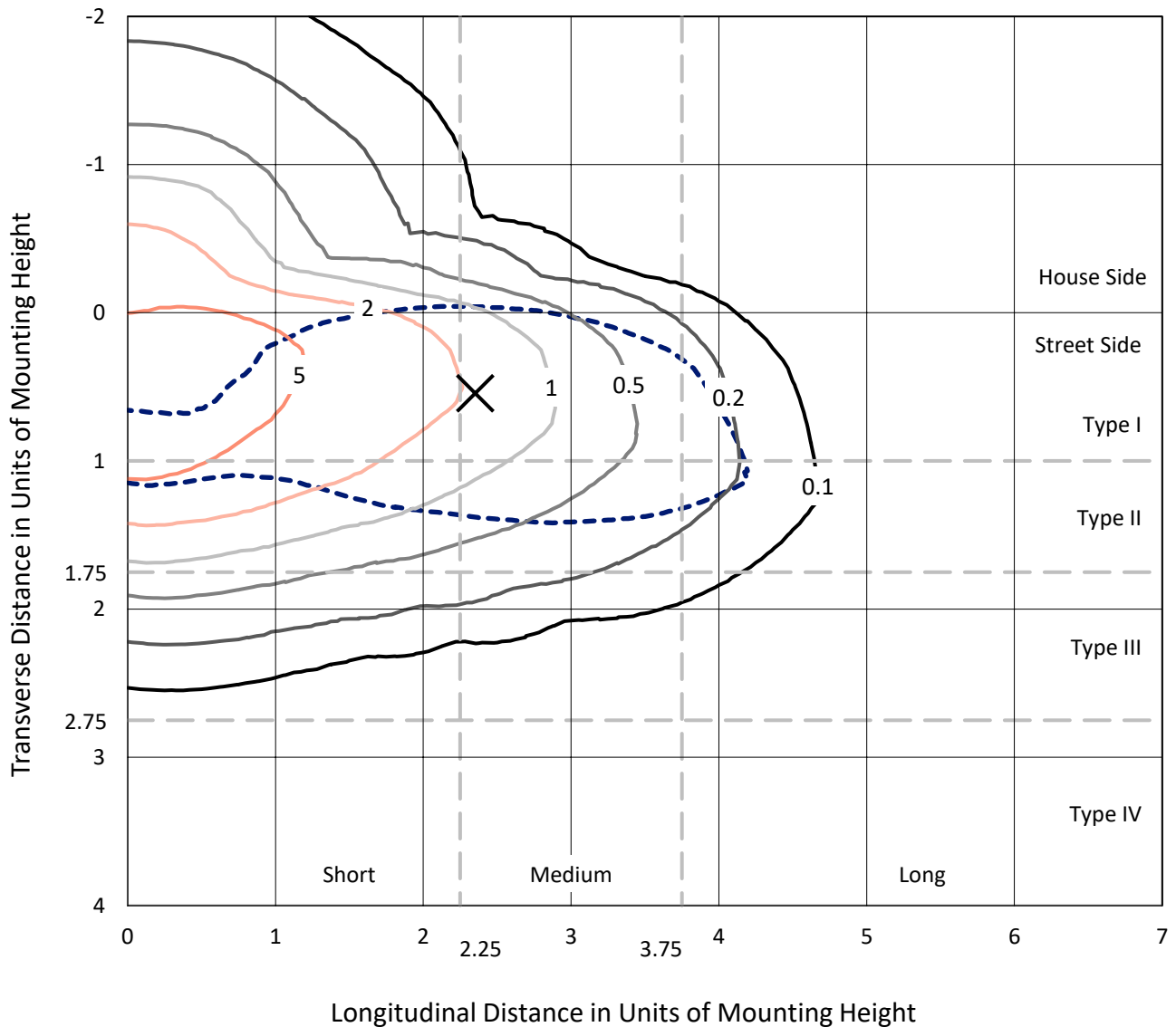
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

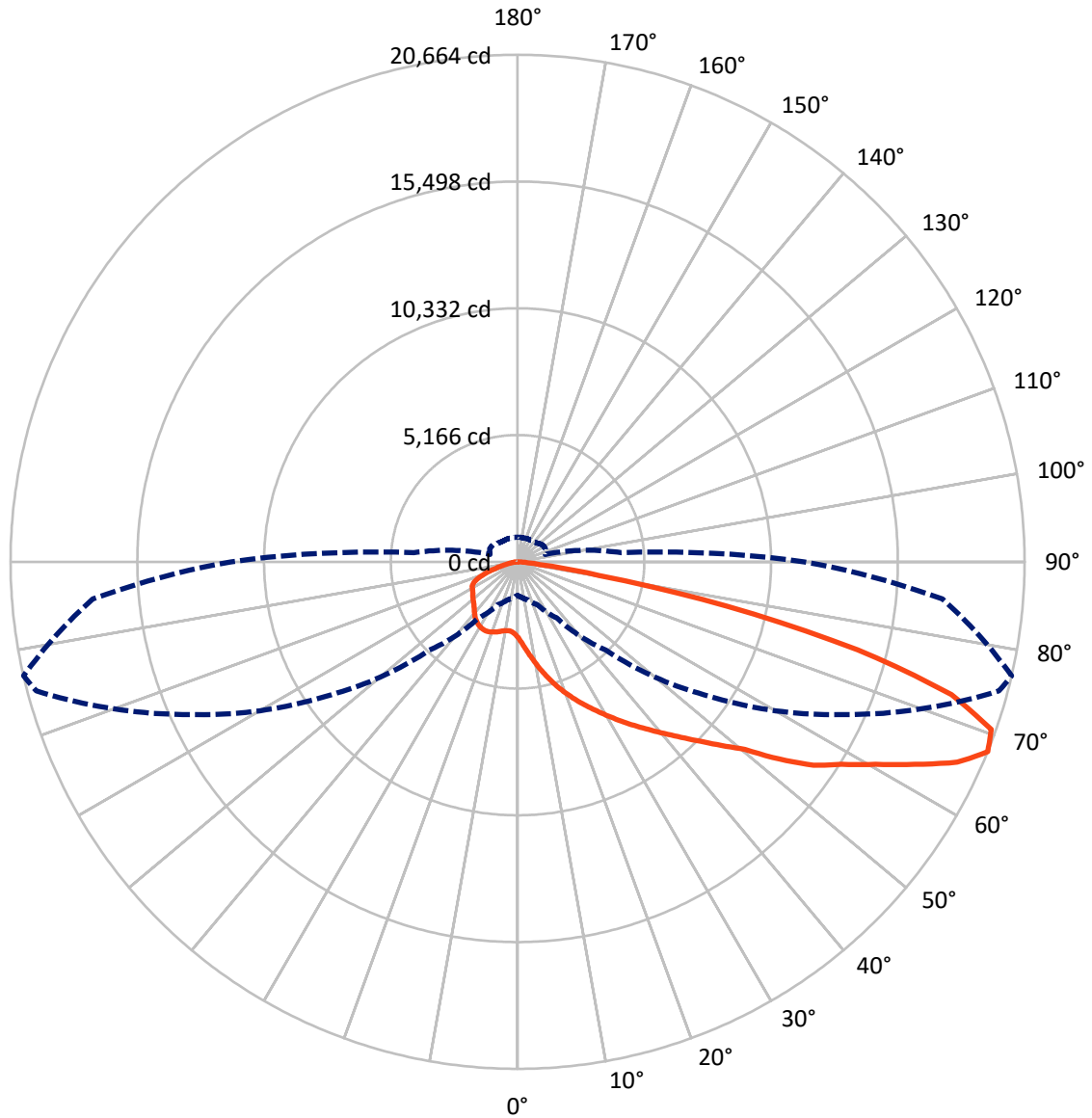
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	4982.7	0.0	4982.7
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	21358.7	0.0	21358.7
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	26341.5	0.0	26341.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.3	1.3
10°-20°	1190.2	4.5
20°-30°	2247.1	8.5
30°-40°	3620.1	13.7
40°-50°	4951.6	18.8
50°-60°	5585.4	21.2
60°-70°	5213.3	19.8
70°-80°	2857.8	10.8
80°-90°	344.7	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°	26341.5	100.0
0°-180°	26341.5	100.0

**Coefficient of Utilization**

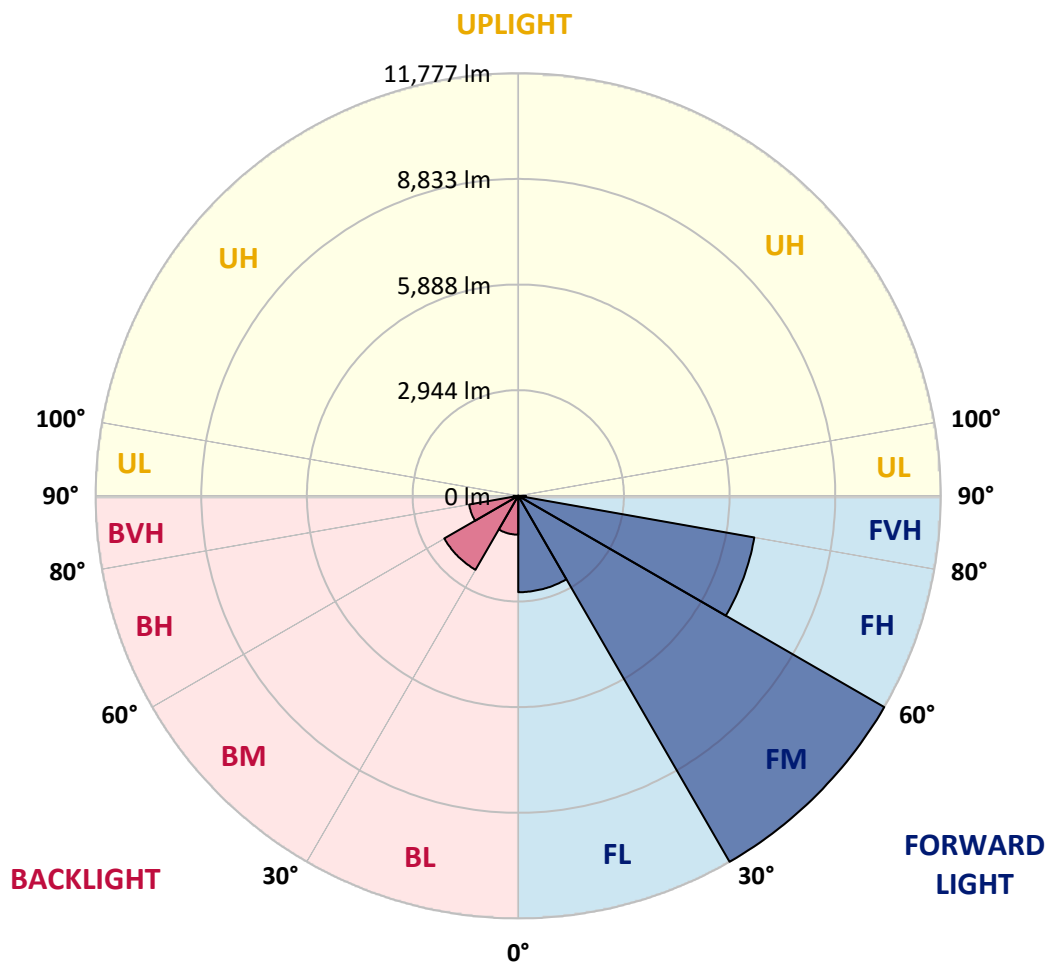


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2685.2	10.2			
FM (30°-60°)	11777.0	44.7			
FH (60°-80°)	6681.0	25.4			G3/7500
FVH (80°-90°)	215.6	0.8			G2/225
BL (0°-30°)	1083.4	4.1	B3/2500		
BM (30°-60°)	2380.1	9.0	B2/2500		
BH (60°-80°)	1390.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	129.1	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-G3**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3090.7	3090.7	3090.7	3090.7	3090.7	3090.7	3090.7	3090.7	3090.7	3090.7	3090.7
2.5°	3869.8	3896.9	3863.0	3863.0	3748.8	3689.0	3574.7	3487.7	3331.4	3304.2	3200.8
5°	4574.2	4608.1	4560.5	4540.1	4405.6	4281.8	4090.1	3901.0	3622.4	3593.8	3350.4
7.5°	5119.4	5162.9	5120.8	5099.0	4979.3	4840.7	4616.3	4352.5	3959.6	3903.8	3551.6
10°	5564.0	5570.9	5557.2	5565.3	5471.6	5357.4	5127.6	4820.3	4329.4	4253.2	3795.1
12.5°	5815.5	5846.8	5874.1	5923.0	5906.7	5835.9	5629.3	5262.1	4720.9	4623.1	4060.1
15°	5933.8	5988.3	6049.4	6162.3	6253.4	6271.1	6113.4	5736.7	5119.4	5001.1	4328.1
17.5°	5976.1	6027.7	6124.3	6287.5	6483.2	6615.1	6544.4	6197.7	5513.7	5377.8	4609.5
20°	6189.5	6204.4	6263.0	6417.9	6630.0	6848.9	6902.0	6641.0	5904.0	5750.4	4900.5
22.5°	6646.4	6616.5	6632.8	6703.5	6855.8	7067.9	7188.9	7032.5	6305.1	6128.3	5194.2
25°	7401.0	7314.0	7227.0	7145.4	7222.9	7342.6	7479.9	7424.2	6725.2	6500.9	5490.6
27.5°	8354.2	8248.2	8056.4	7788.6	7694.8	7736.9	7798.1	7787.2	7114.1	6887.1	5796.6
30°	9292.4	9168.7	8940.3	8552.7	8305.3	8193.7	8147.5	8116.3	7537.0	7294.9	6105.2
32.5°	10041.6	9943.7	9719.4	9285.6	8926.6	8736.3	8582.6	8471.1	7978.9	7736.9	6431.6
35°	10697.0	10605.9	10348.9	9875.8	9485.5	9282.9	9081.7	8843.7	8438.5	8193.7	6782.3
37.5°	11295.3	11204.2	10852.0	10359.8	9966.8	9826.8	9647.3	9243.4	8899.5	8668.3	7153.6
40°	11673.3	11652.9	11323.9	10766.4	10358.4	10289.1	10229.3	9707.2	9410.7	9195.9	7561.4
42.5°	11769.9	11814.8	11553.7	11095.4	10706.5	10650.8	10790.9	10232.0	9984.5	9779.2	8023.8
45°	11537.3	11666.6	11495.2	11183.8	10954.0	10924.1	11288.5	10805.8	10619.5	10431.8	8581.3
47.5°	10948.5	11167.5	11096.8	11053.3	11020.6	11149.8	11726.3	11414.9	11338.9	11175.7	9217.6
50°	9760.2	10174.9	10298.6	10573.3	10888.8	11325.2	12124.7	12079.8	12179.2	12014.6	9992.7
52.5°	7705.6	8276.7	8994.7	9682.7	10483.5	11266.7	12562.6	13034.4	13453.2	13363.4	11224.6
55°	6360.8	6617.8	7169.9	8431.8	9697.6	11020.6	12759.7	13805.4	14717.8	14637.5	12158.8
57.5°	5327.4	5557.2	5897.1	6950.9	8509.2	10461.8	12882.1	14275.8	15583.9	15575.7	13080.6
60°	4219.2	4462.6	4810.7	5557.2	7120.9	9496.4	12854.9	14811.6	16689.4	16757.3	14205.2
62.5°	2968.3	3236.1	3622.4	4318.5	5702.7	8245.4	12300.1	15199.1	17990.6	18175.5	15558.1
65°	1951.2	2128.0	2419.0	3020.0	4249.1	6636.9	11240.9	15249.4	19383.0	19695.8	16828.0
67.5°	1367.9	1435.9	1607.2	1933.6	2801.0	5089.4	9553.5	14728.6	20311.7	20663.9	17378.8
70°	1067.4	1101.4	1188.4	1319.0	1759.5	3422.5	7320.8	13374.3	20113.2	20480.3	16803.5
72.5°	921.9	954.6	987.2	1003.5	1180.3	2113.0	4959.0	11182.4	18243.6	18492.3	14610.4
75°	836.2	844.4	871.6	866.1	900.2	1370.6	2862.2	8147.5	14394.2	14308.5	10785.4
77.5°	702.9	713.8	758.7	751.9	799.5	936.8	1486.1	5258.0	9331.8	8749.9	6003.2
80°	595.5	601.0	650.0	641.8	694.8	678.6	758.7	2680.1	3958.1	3353.1	1730.9
82.5°	206.6	255.6	496.3	511.3	530.3	410.6	437.9	1093.3	1208.8	926.0	363.1
85°	100.7	107.4	252.9	359.0	357.6	206.6	213.5	390.2	380.7	299.1	121.1
87.5°	16.3	20.4	29.9	140.0	111.5	54.4	73.4	76.2	78.8	68.0	27.2
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°	3090.7	3090.7	3090.7	3090.7	3090.7	3090.7	3090.7	3090.7	3090.7	3090.7	3090.7
2.5°	3124.7	3056.7	2913.9	2782.1	2678.6	2579.4	2523.7	2476.1	2448.9	2443.4	2443.4
5°	3209.0	3069.0	2809.2	2590.3	2447.5	2341.5	2285.8	2250.4	2232.7	2221.8	2220.5
7.5°	3330.0	3124.7	2754.8	2506.0	2356.4	2280.3	2251.7	2246.3	2245.0	2246.3	2250.4
10°	3497.2	3215.7	2749.4	2485.6	2360.5	2318.3	2317.0	2318.3	2323.8	2325.1	2326.5
12.5°	3678.1	3309.6	2771.1	2503.3	2412.1	2389.1	2385.0	2383.6	2387.7	2390.4	2391.7
15°	3875.2	3433.3	2807.9	2541.4	2469.2	2444.8	2440.7	2432.5	2431.2	2429.9	2428.5
17.5°	4077.9	3555.7	2848.7	2582.2	2506.0	2472.0	2457.0	2438.0	2423.0	2419.0	2423.0
20°	4283.2	3676.7	2877.2	2602.6	2508.7	2461.1	2431.2	2398.6	2372.8	2357.8	2363.2
22.5°	4502.1	3803.2	2894.9	2597.0	2484.2	2419.0	2364.6	2326.5	2287.1	2261.3	2262.6
25°	4715.5	3913.3	2893.5	2568.5	2436.6	2353.7	2284.3	2235.4	2181.0	2153.8	2153.8
27.5°	4920.9	4012.6	2859.5	2518.2	2368.7	2276.2	2193.3	2134.8	2081.8	2055.9	2054.5
30°	5133.0	4095.5	2806.4	2444.8	2288.4	2186.4	2095.3	2045.1	1997.4	1973.0	1971.6
32.5°	5343.7	4171.6	2731.7	2353.7	2196.0	2098.1	2008.3	1962.1	1933.6	1933.6	1934.9
35°	5566.8	4224.6	2632.4	2247.6	2098.1	2004.3	1933.6	1906.3	1903.6	1887.3	1883.2
37.5°	5802.0	4258.7	2511.5	2138.9	2001.5	1913.2	1891.4	1858.7	1831.6	1796.2	1790.8
40°	6049.4	4292.7	2365.9	2026.0	1899.5	1850.6	1841.1	1797.5	1720.1	1633.0	1620.8
42.5°	6350.0	4315.8	2215.0	1913.2	1792.1	1775.8	1789.4	1714.6	1590.9	1525.6	1526.9
45°	6698.1	4353.9	2076.3	1801.6	1682.0	1682.0	1739.1	1641.2	1539.2	1498.4	1505.2
47.5°	7149.5	4442.2	1947.1	1679.3	1580.0	1607.2	1627.6	1552.8	1495.7	1445.4	1444.0
50°	7802.2	4654.3	1813.8	1555.5	1502.5	1556.9	1528.4	1484.8	1418.2	1377.4	1373.3
52.5°	8612.6	4779.5	1695.6	1444.0	1435.9	1490.2	1449.5	1408.7	1358.3	1304.0	1293.1
55°	9164.6	4802.5	1596.3	1362.4	1391.0	1385.6	1370.6	1333.9	1306.7	1234.6	1236.0
57.5°	9781.9	4848.8	1514.7	1313.5	1362.4	1302.7	1297.1	1265.9	1230.5	1181.6	1165.3
60°	10520.3	4920.9	1444.0	1294.5	1337.9	1248.2	1221.1	1208.8	1173.4	1149.0	1155.8
62.5°	11325.2	4986.1	1372.0	1297.1	1309.4	1195.3	1154.5	1150.4	1128.6	1120.4	1120.4
65°	11874.5	4808.0	1282.3	1294.5	1264.5	1140.8	1089.2	1087.8	1070.1	1067.4	1066.0
67.5°	11682.8	4243.7	1161.2	1256.3	1218.3	1086.4	1029.3	1023.9	1000.8	1002.1	1002.1
70°	10722.8	3438.8	993.9	1162.6	1161.2	1037.5	966.8	949.0	917.8	923.2	928.6
72.5°	8922.5	2548.1	769.6	1006.2	1070.1	992.6	894.7	866.1	826.8	832.2	830.8
75°	6443.8	1732.2	560.2	765.6	931.4	939.6	824.0	775.0	727.4	735.6	738.3
77.5°	3297.3	981.7	412.0	527.6	731.5	853.9	760.1	694.8	684.0	760.1	749.2
80°	1075.5	492.2	285.6	369.8	480.0	698.9	666.2	591.5	588.8	606.4	520.8
82.5°	320.9	208.1	183.6	243.4	265.2	535.8	575.1	447.3	384.8	405.2	418.8
85°	110.2	100.7	104.7	121.1	126.5	314.1	402.5	296.4	280.1	308.6	304.6
87.5°	25.8	35.4	29.9	27.2	27.2	76.2	156.4	123.7	171.3	114.2	110.2
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)