

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: P964479

Luminaire Tested: **NAV-SB3C-722-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3C-722-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18851.8 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

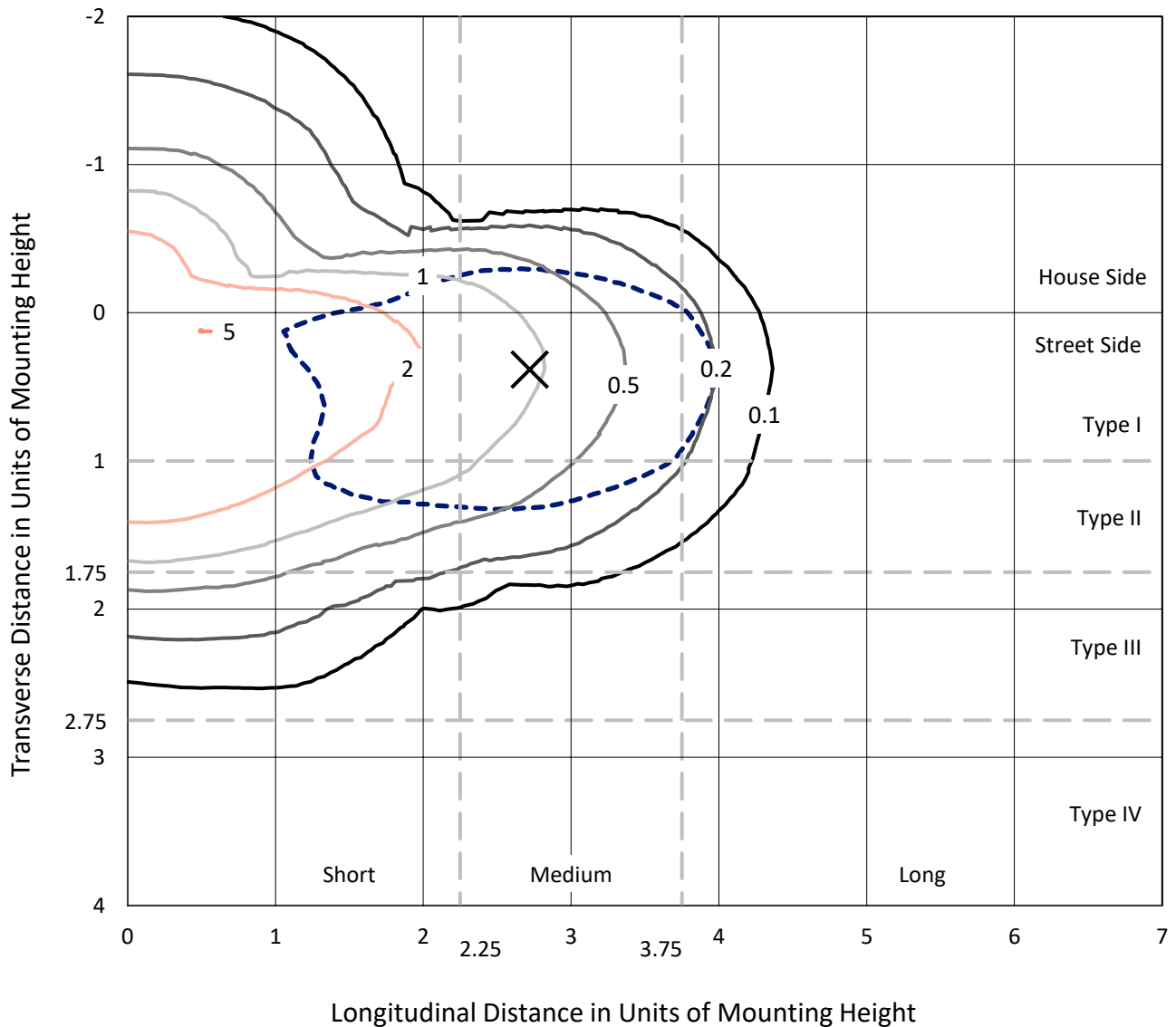
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

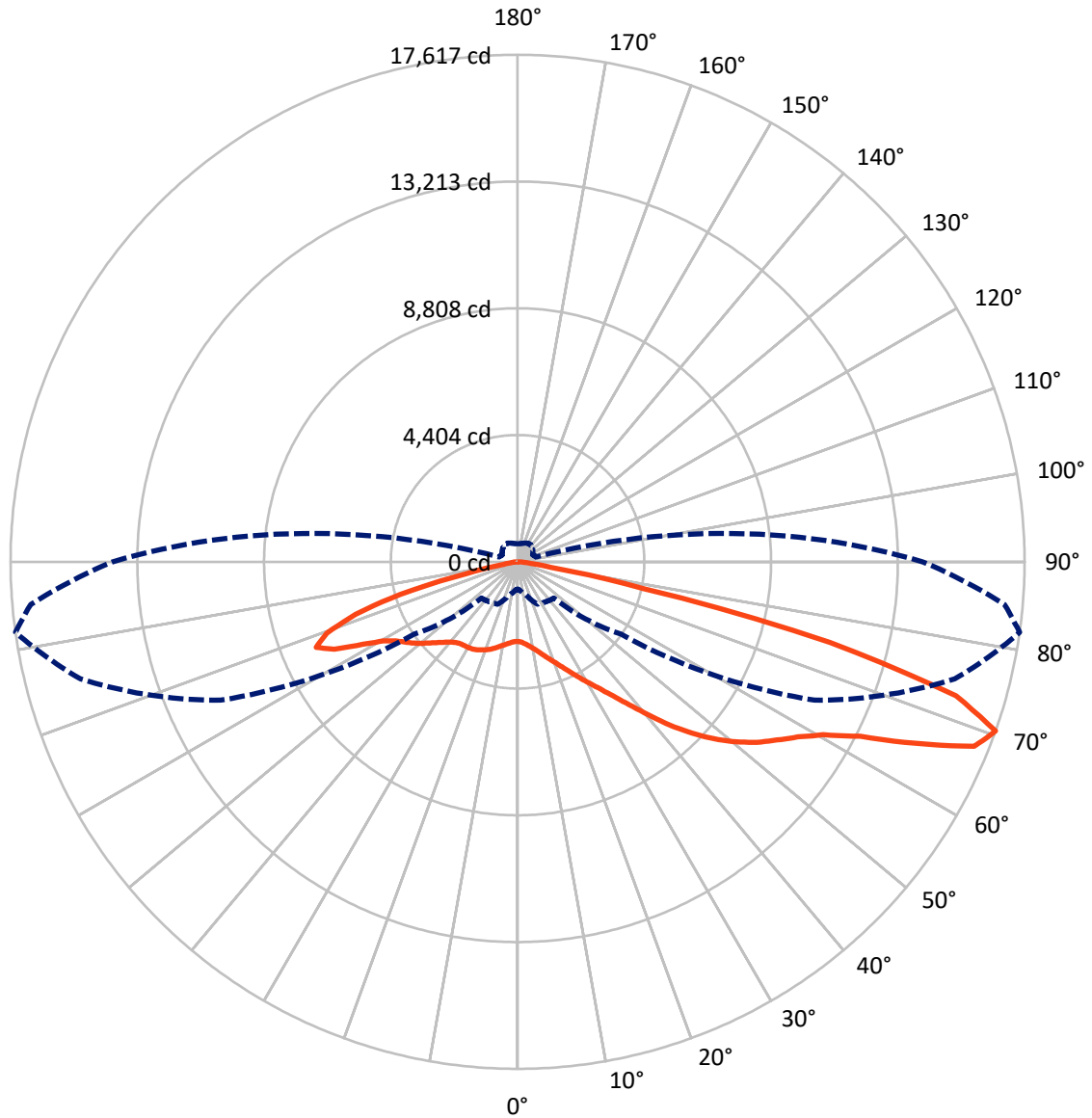
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4647.4	0.0	4647.4
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	14204.4	0.0	14204.4
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	18851.8	0.0	18851.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.0	1.4
10°-20°	749.8	4.0
20°-30°	1254.3	6.7
30°-40°	1959.5	10.4
40°-50°	3120.7	16.6
50°-60°	4342.9	23.0
60°-70°	4542.8	24.1
70°-80°	2374.3	12.6
80°-90°	246.6	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°	18851.8	100.0
0°-180°	18851.8	100.0

**Coefficient of Utilization**

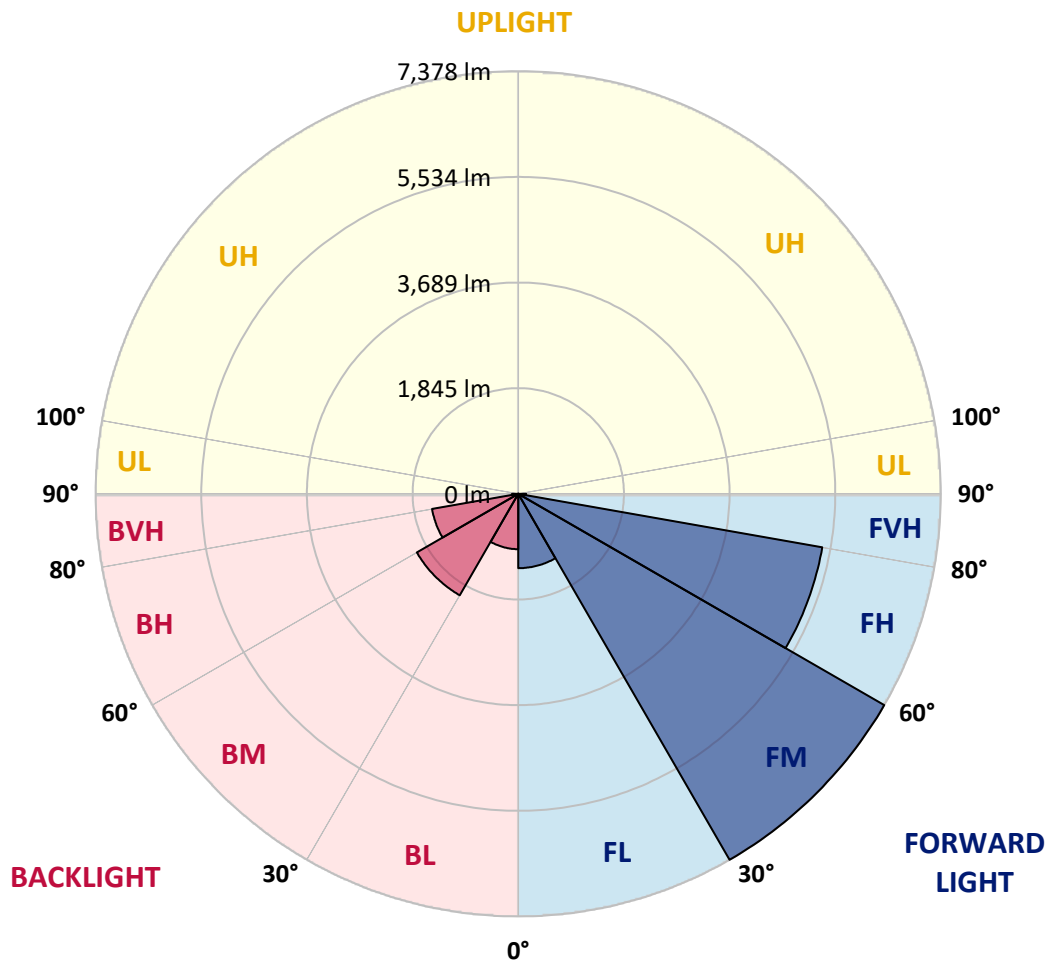


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1298.2	6.9			
FM (30°-60°)	7378.4	39.1			
FH (60°-80°)	5389.8	28.6			G3/7500
FVH (80°-90°)	138.0	0.7			G2/225
BL (0°-30°)	966.8	5.1	B2/1000		
BM (30°-60°)	2044.7	10.8	B2/2500		
BH (60°-80°)	1527.4	8.1	B3/2500		G3/2500
BVH (80°-90°)	108.5	0.6			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°	82°	85°
0°	2763.9	2763.9	2763.9	2763.9	2763.9	2763.9	2763.9	2763.9	2763.9	2763.9	2763.9
2.5°	2829.9	2845.9	2840.9	2836.0	2836.0	2828.9	2828.0	2817.9	2809.9	2796.9	2793.9
5°	2865.9	2882.9	2881.0	2885.0	2898.0	2901.0	2903.9	2898.0	2882.0	2865.9	2858.9
7.5°	2833.9	2853.0	2858.9	2882.9	2923.0	2959.0	2986.0	2997.0	2982.0	2959.0	2948.0
10°	2725.9	2746.9	2767.9	2824.9	2895.9	2981.0	3053.0	3096.0	3093.0	3071.0	3052.0
12.5°	2506.8	2528.9	2573.9	2684.9	2815.0	2965.0	3099.0	3189.1	3220.0	3204.0	3171.0
15°	2331.8	2350.7	2384.8	2498.8	2667.9	2895.9	3116.0	3291.1	3370.1	3361.1	3321.1
17.5°	2326.8	2334.7	2355.8	2409.8	2539.8	2787.9	3098.1	3391.1	3542.2	3541.2	3491.2
20°	2414.8	2417.8	2429.8	2440.8	2514.8	2705.9	3052.0	3474.1	3735.2	3735.2	3681.2
22.5°	2536.9	2534.8	2546.8	2536.9	2572.9	2698.9	3023.0	3547.2	3950.3	3966.3	3898.3
25°	2719.9	2709.9	2706.9	2683.9	2690.9	2763.9	3055.0	3630.2	4205.4	4238.4	4153.4
27.5°	2964.0	2948.0	2936.9	2883.9	2865.9	2898.0	3153.0	3730.2	4489.5	4546.5	4438.5
30°	3282.0	3253.0	3237.1	3145.0	3080.0	3085.0	3301.1	3863.2	4786.5	4878.6	4741.5
32.5°	3716.2	3671.2	3628.2	3477.1	3358.1	3319.1	3492.2	4047.3	5108.7	5255.7	5079.7
35°	4202.4	4166.4	4120.4	3887.3	3704.2	3614.2	3750.3	4304.4	5485.8	5718.9	5489.8
37.5°	4670.5	4639.6	4661.5	4347.4	4111.4	3980.3	4088.3	4649.5	5950.9	6295.0	6003.9
40°	5154.7	5130.6	5133.7	4833.6	4558.5	4411.5	4498.5	5082.7	6484.2	6980.2	6622.2
42.5°	5680.9	5662.8	5602.9	5336.8	5027.6	4890.6	4970.6	5582.9	7056.3	7760.6	7300.4
45°	6270.0	6259.1	6203.0	5898.0	5543.8	5389.8	5497.8	6135.0	7631.5	8494.8	7981.7
47.5°	6779.2	6788.3	6781.2	6524.1	6157.1	5931.0	6060.0	6711.2	8166.7	9185.0	8634.8
50°	7024.3	7071.4	7140.4	7060.3	6832.2	6602.1	6627.1	7267.4	8676.8	9832.2	9261.1
52.5°	6896.3	6985.3	7173.4	7301.4	7389.4	7341.5	7274.4	7819.6	9157.0	10416.5	9853.2
55°	6419.1	6544.1	6856.2	7165.4	7614.5	7963.6	8051.7	8431.8	9625.2	10930.6	10413.4
57.5°	5549.9	5752.9	6032.9	6658.2	7414.4	8264.7	8958.0	9281.1	10121.4	11479.8	10999.6
60°	4059.3	4331.4	4679.5	5609.8	6714.2	8103.6	9729.2	10585.5	10826.6	12191.0	11762.9
62.5°	2597.9	2765.9	3086.0	3962.3	5231.7	7278.4	9965.3	12216.1	12021.9	13357.4	12907.2
65°	1778.6	1886.6	2179.8	2671.9	3382.1	5417.7	9333.0	13438.5	13920.6	15206.0	14863.9
67.5°	1292.4	1374.4	1624.5	2055.6	2203.8	3206.1	7242.3	13382.4	15766.1	17110.6	16578.5
70°	942.3	1000.3	1210.4	1624.5	1695.6	1783.6	4387.4	11375.8	15726.2	17616.8	16979.6
72.5°	698.2	738.2	879.2	1260.4	1372.5	1204.4	2171.7	8267.8	13513.5	15934.2	15423.1
75°	505.1	535.2	639.2	964.3	1098.4	917.3	1083.3	4831.5	9426.1	11208.7	11298.7
77.5°	386.1	409.2	477.1	706.2	879.2	688.2	672.2	2222.7	4469.5	4491.4	4743.6
80°	310.1	325.1	362.1	497.1	674.2	515.2	438.2	897.3	1412.4	1195.4	1254.4
82.5°	228.1	253.1	306.1	349.1	482.2	355.2	267.1	453.2	537.2	462.2	466.2
85°	130.1	147.1	185.0	250.1	308.1	217.1	153.0	201.1	250.1	205.1	183.1
87.5°	46.0	60.1	65.0	98.0	134.1	90.0	59.0	58.0	82.0	61.0	51.0
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°	2763.9	2763.9	2763.9	2763.9	2763.9	2763.9	2763.9	2763.9	2763.9	2763.9	2763.9
2.5°	2783.9	2778.9	2758.9	2731.9	2703.8	2676.9	2667.9	2648.9	2635.9	2628.8	2636.9
5°	2840.0	2824.0	2776.9	2716.9	2653.8	2585.9	2537.8	2493.8	2461.8	2431.8	2443.8
7.5°	2919.9	2891.9	2811.0	2705.9	2593.9	2480.8	2396.8	2332.8	2289.7	2261.8	2267.7
10°	3013.0	2969.9	2845.9	2688.9	2515.9	2353.8	2254.7	2199.8	2172.7	2157.7	2161.7
12.5°	3120.0	3059.0	2882.0	2649.8	2396.8	2211.7	2143.7	2127.7	2128.7	2129.7	2131.7
15°	3252.1	3167.0	2911.0	2564.9	2241.8	2102.7	2090.7	2116.7	2143.7	2156.7	2155.7
17.5°	3401.2	3281.1	2915.9	2424.8	2089.7	2032.7	2070.7	2126.7	2167.7	2185.7	2189.7
20°	3561.2	3397.2	2879.9	2226.7	1964.6	1975.7	2043.6	2115.7	2160.7	2183.8	2189.7
22.5°	3744.2	3521.2	2793.9	2018.6	1862.6	1913.7	1993.6	2063.6	2110.7	2133.7	2139.7
25°	3953.3	3660.2	2658.8	1843.6	1774.6	1843.6	1923.6	1981.6	2019.7	2040.7	2046.7
27.5°	4185.4	3805.2	2478.9	1704.6	1697.6	1771.6	1837.6	1882.6	1902.6	1918.6	1924.6
30°	4418.5	3937.3	2260.7	1599.5	1630.6	1700.6	1747.6	1767.6	1773.6	1776.6	1783.6
32.5°	4670.5	4051.3	2031.7	1512.5	1566.5	1631.5	1659.6	1668.6	1640.5	1621.6	1627.5
35°	4975.7	4173.4	1807.6	1443.5	1503.5	1559.5	1568.6	1560.6	1527.5	1488.5	1490.5
37.5°	5352.8	4325.4	1628.5	1394.4	1444.4	1481.5	1470.5	1468.5	1471.5	1425.5	1428.4
40°	5814.9	4523.5	1497.5	1356.5	1396.5	1404.5	1373.5	1390.4	1405.5	1335.5	1337.4
42.5°	6328.0	4762.6	1414.5	1330.4	1356.5	1337.4	1289.4	1308.4	1306.5	1214.4	1213.4
45°	6851.3	5022.6	1385.5	1311.4	1319.5	1281.5	1228.4	1233.4	1191.4	1108.3	1111.4
47.5°	7371.4	5301.7	1403.4	1295.4	1273.5	1230.4	1189.4	1167.4	1105.4	1043.3	1043.3
50°	7881.6	5594.9	1469.4	1263.4	1210.4	1185.4	1155.4	1116.3	1050.3	997.3	993.3
52.5°	8354.8	5890.0	1543.5	1210.4	1131.4	1146.4	1127.4	1082.4	1017.3	963.3	964.3
55°	8802.9	6185.1	1572.6	1137.3	1057.4	1112.3	1101.4	1018.3	940.3	896.3	892.3
57.5°	9291.0	6540.1	1540.5	1044.4	997.3	1073.4	1031.4	939.3	894.3	861.3	858.2
60°	9967.3	7097.3	1471.5	929.3	940.3	1015.4	943.3	905.3	856.3	819.3	817.2
62.5°	11090.6	8136.7	1360.5	815.3	873.3	929.3	901.3	863.3	813.2	777.3	777.3
65°	12751.2	9581.2	1151.4	726.2	798.3	845.3	856.3	818.3	766.3	728.3	730.2
67.5°	14151.7	10487.5	871.2	652.2	721.2	777.3	808.3	771.2	716.3	679.3	680.2
70°	14074.6	9829.2	665.2	579.2	653.2	710.2	750.2	721.2	662.3	627.2	630.2
72.5°	12501.1	8222.8	538.2	505.1	584.1	640.2	688.2	666.2	606.2	572.2	572.2
75°	9184.0	5837.0	430.2	430.2	498.2	567.2	620.2	606.2	551.1	527.2	520.2
77.5°	3871.3	2448.8	337.1	357.1	414.1	487.2	553.2	558.2	510.1	540.2	490.2
80°	1029.3	675.3	257.1	281.1	325.1	402.1	481.1	479.2	427.1	399.1	371.2
82.5°	392.2	266.1	183.1	198.0	235.0	308.1	381.1	393.1	341.1	295.1	295.1
85°	151.1	114.1	113.1	119.0	137.0	204.1	288.1	298.1	257.1	218.1	225.1
87.5°	39.1	34.0	42.0	40.0	63.0	109.1	165.0	171.1	157.0	91.0	130.1
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)