

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: P884927

Luminaire Tested: **NAV-SB6A-722-U-T2**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884927  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6A-722-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

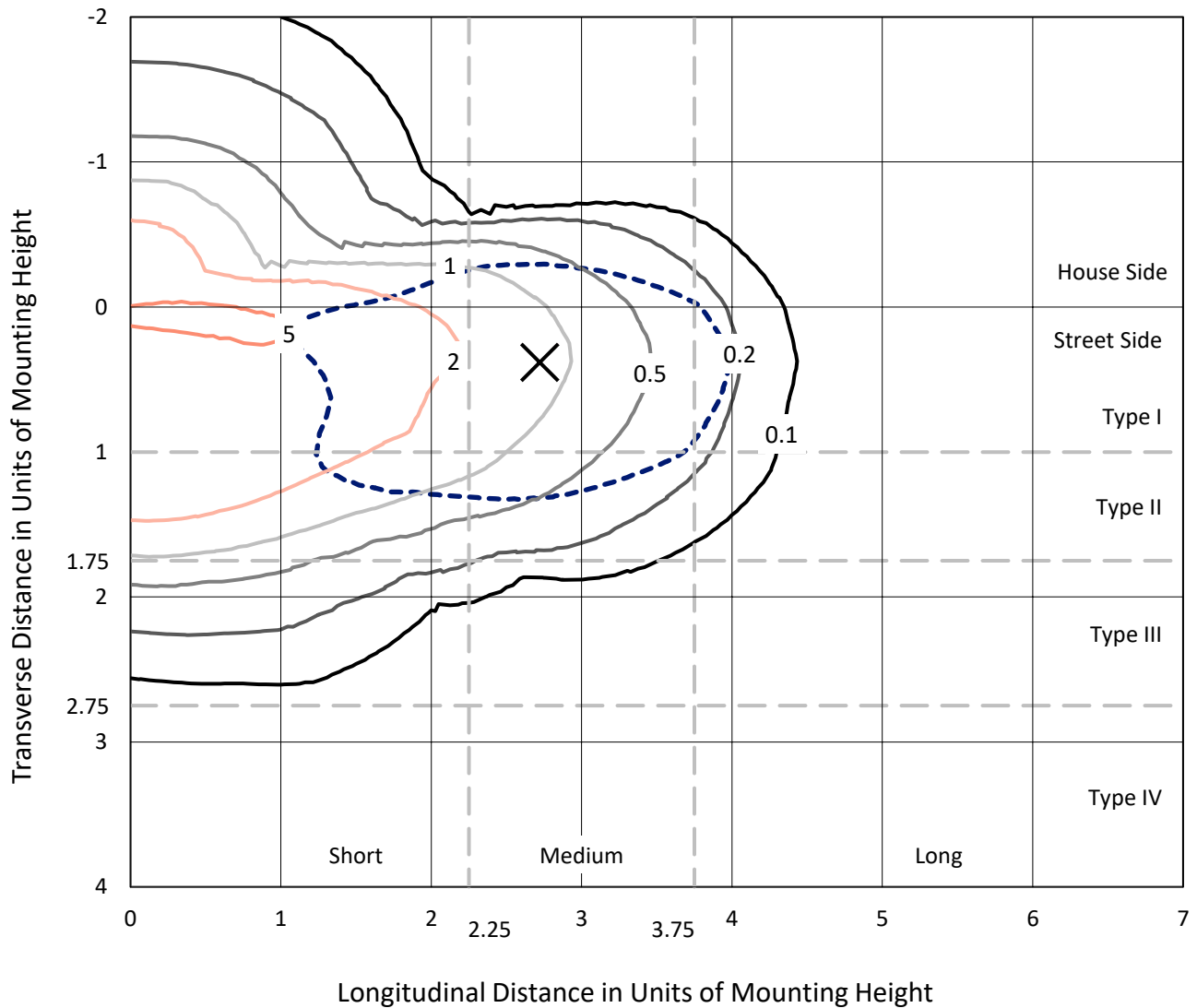
Lumens per Lamp: N/A  
Luminaire Lumens: 21498 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

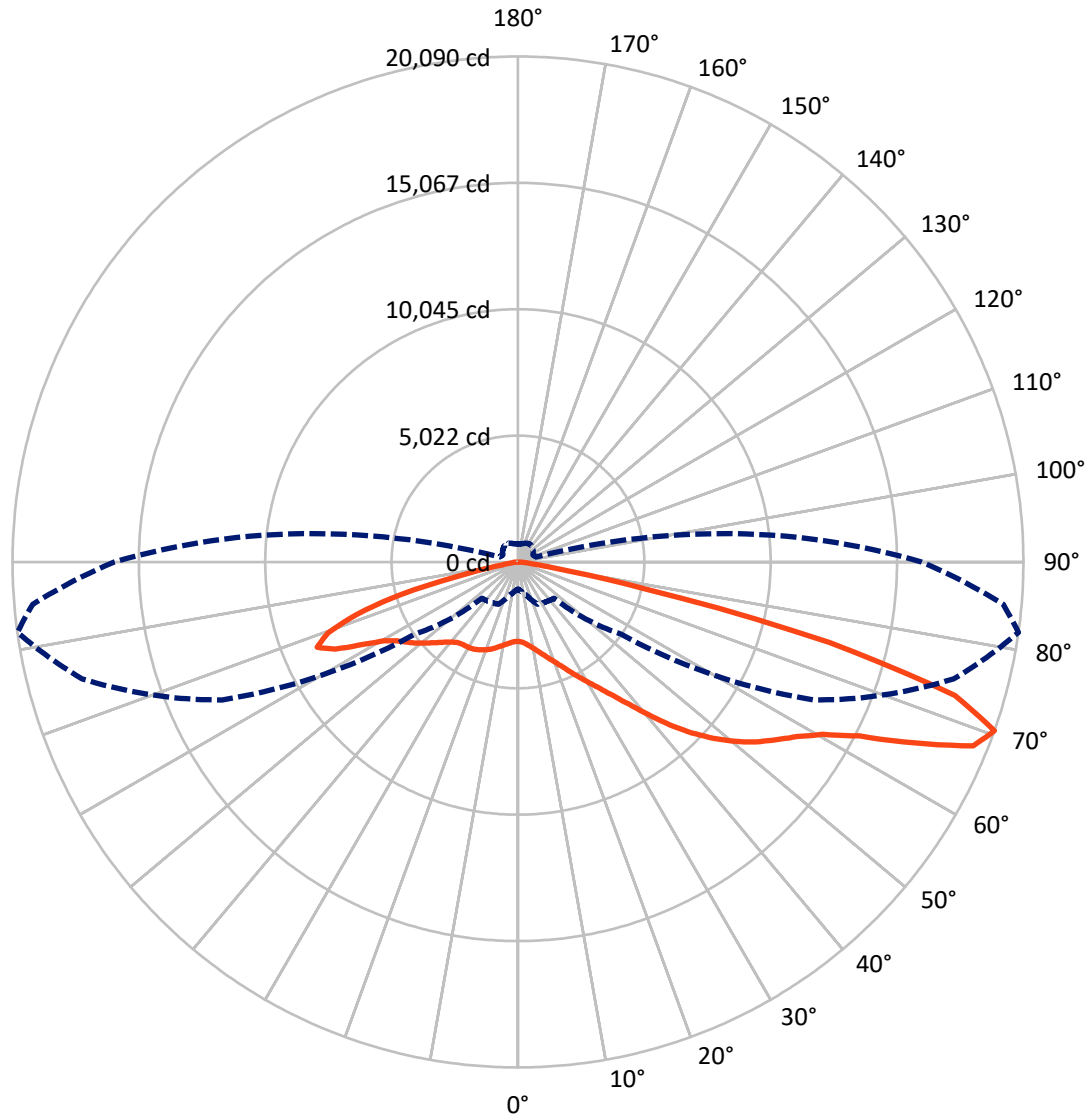
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	5299.8	0.0	5299.8
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	16198.2	0.0	16198.2
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	21498.0	0.0	21498.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.6	1.4
10°-20°	855.0	4.0
20°-30°	1430.3	6.7
30°-40°	2234.5	10.4
40°-50°	3558.8	16.6
50°-60°	4952.5	23.0
60°-70°	5180.5	24.1
70°-80°	2707.6	12.6
80°-90°	281.2	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°	21498.0	100.0
0°-180°	21498.0	100.0

**Coefficient of Utilization**



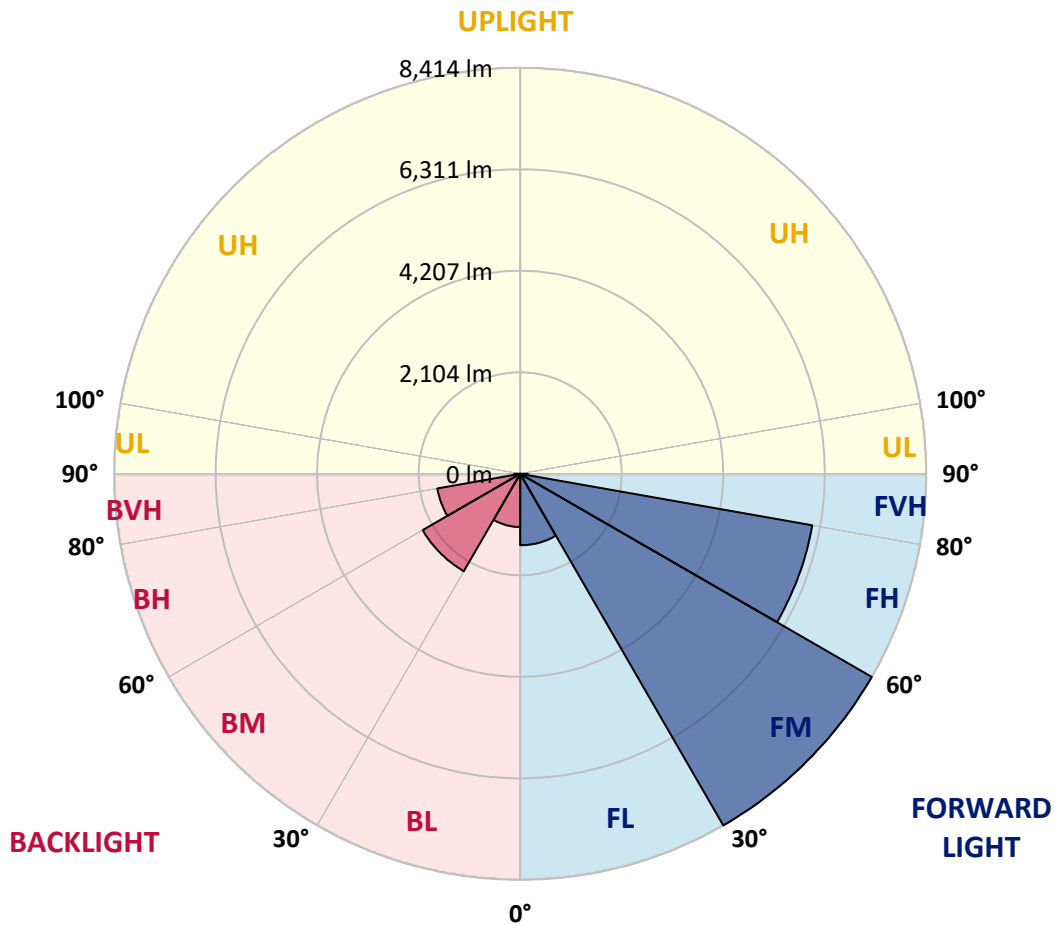
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1480.4	6.9			
FM (30°-60°)	8414.1	39.1			
FH (60°-80°)	6146.3	28.6			G3/7500
FVH (80°-90°)	157.4	0.7			G2/225
BL (0°-30°)	1102.5	5.1	B3/2500		
BM (30°-60°)	2331.7	10.8	B2/2500		
BH (60°-80°)	1741.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	123.8	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°	3151.9	3151.9	3151.9	3151.9	3151.9	3151.9	3151.9	3151.9	3151.9	3151.9	3151.9
2.5°	3227.2	3245.4	3239.7	3234.0	3234.0	3226.0	3224.9	3213.5	3204.3	3189.5	3186.1
5°	3268.2	3287.6	3285.3	3289.9	3304.7	3308.2	3311.6	3304.7	3286.5	3268.2	3260.2
7.5°	3231.7	3253.4	3260.2	3287.6	3333.3	3374.3	3405.1	3417.7	3400.6	3374.3	3361.8
10°	3108.5	3132.5	3156.4	3221.5	3302.5	3399.4	3481.6	3530.6	3527.2	3502.1	3480.4
12.5°	2858.7	2883.8	2935.1	3061.8	3210.1	3381.2	3534.0	3636.7	3672.1	3653.8	3616.2
15°	2659.1	2680.7	2719.5	2849.6	3042.4	3302.5	3553.4	3753.0	3843.2	3832.9	3787.3
17.5°	2653.4	2662.5	2686.5	2748.1	2896.3	3179.3	3532.9	3867.1	4039.4	4038.2	3981.2
20°	2753.8	2757.2	2770.9	2783.4	2867.8	3085.7	3480.4	3961.8	4259.5	4259.5	4197.9
22.5°	2892.9	2890.6	2904.3	2892.9	2934.0	3077.7	3447.3	4045.1	4504.8	4523.0	4445.5
25°	3101.7	3090.3	3086.9	3060.6	3068.6	3151.9	3483.8	4139.8	4795.7	4833.3	4736.4
27.5°	3380.0	3361.8	3349.2	3288.8	3268.2	3304.7	3595.6	4253.8	5119.7	5184.7	5061.5
30°	3742.8	3709.7	3691.4	3586.5	3512.4	3518.1	3764.5	4405.6	5458.5	5563.4	5407.1
32.5°	4237.9	4186.5	4137.5	3965.2	3829.5	3785.0	3982.3	4615.5	5825.8	5993.5	5792.7
35°	4792.3	4751.2	4698.7	4432.9	4224.2	4121.5	4276.6	4908.6	6255.8	6521.6	6260.4
37.5°	5326.1	5290.8	5315.9	4957.7	4688.5	4539.0	4662.2	5302.2	6786.3	7178.7	6846.7
40°	5878.3	5850.9	5854.3	5512.1	5198.4	5030.7	5129.9	5796.1	7394.3	7960.1	7551.7
42.5°	6478.3	6457.8	6389.3	6085.9	5733.4	5577.1	5668.4	6366.5	8046.8	8849.9	8325.1
45°	7150.2	7137.6	7073.8	6725.8	6322.0	6146.3	6269.5	6996.2	8702.7	9687.2	9102.0
47.5°	7730.8	7741.1	7733.1	7439.9	7021.3	6763.5	6910.6	7653.3	9313.0	10474.3	9846.9
50°	8010.3	8063.9	8142.6	8051.4	7791.3	7528.9	7557.4	8287.5	9894.8	11212.4	10561.0
52.5°	7864.3	7965.8	8180.3	8326.3	8426.7	8371.9	8295.5	8917.2	10442.4	11878.6	11236.3
55°	7320.2	7462.7	7818.7	8171.1	8683.3	9081.5	9181.8	9615.3	10976.2	12464.9	11875.1
57.5°	6328.8	6560.4	6879.8	7592.8	8455.2	9424.8	10215.4	10583.8	11542.0	13091.2	12543.6
60°	4629.1	4939.4	5336.4	6397.3	7656.7	9241.2	11094.9	12071.4	12346.3	13902.2	13414.0
62.5°	2962.5	3154.2	3519.2	4518.5	5966.1	8300.1	11364.1	13930.8	13709.5	15232.4	14719.0
65°	2028.2	2151.4	2485.7	3046.9	3856.9	6178.3	10643.1	15324.8	15874.6	17340.4	16950.3
67.5°	1473.8	1567.4	1852.6	2344.2	2513.1	3656.1	8259.0	15260.9	17979.3	19512.4	18905.6
70°	1074.6	1140.7	1380.3	1852.6	1933.6	2033.9	5003.3	12972.5	17933.6	20089.6	19363.0
72.5°	796.2	841.9	1002.7	1437.3	1565.1	1373.5	2476.6	9428.2	15410.3	18170.9	17588.0
75°	576.1	610.3	728.9	1099.7	1252.5	1046.1	1235.4	5509.8	10749.2	12782.0	12884.7
77.5°	440.3	466.6	544.1	805.4	1002.7	784.8	766.6	2534.7	5096.8	5121.9	5409.4
80°	353.6	370.7	412.9	566.9	768.9	587.5	499.6	1023.2	1610.7	1363.2	1430.5
82.5°	260.1	288.6	349.1	398.1	549.8	405.0	304.6	516.8	612.6	527.0	531.6
85°	148.3	167.7	211.0	285.2	351.3	247.5	174.5	229.3	285.2	233.9	208.8
87.5°	52.5	68.4	74.1	111.8	152.9	102.7	67.3	66.2	93.5	69.6	58.2
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°	3151.9	3151.9	3151.9	3151.9	3151.9	3151.9	3151.9	3151.9	3151.9	3151.9	3151.9
2.5°	3174.7	3169.0	3146.2	3115.4	3083.4	3052.6	3042.4	3020.7	3005.9	2997.9	3007.0
5°	3238.6	3220.3	3166.7	3098.3	3026.4	2948.8	2894.1	2843.9	2807.4	2773.1	2786.8
7.5°	3329.8	3297.9	3205.5	3085.7	2957.9	2829.0	2733.2	2660.2	2611.2	2579.2	2586.1
10°	3435.9	3386.9	3245.4	3066.3	2869.0	2684.2	2571.2	2508.5	2477.7	2460.6	2465.1
12.5°	3558.0	3488.4	3286.5	3021.8	2733.2	2522.2	2444.6	2426.4	2427.5	2428.6	2430.9
15°	3708.6	3611.6	3319.6	2924.9	2556.4	2397.8	2384.2	2413.8	2444.6	2459.4	2458.3
17.5°	3878.5	3741.6	3325.3	2765.2	2383.0	2318.0	2361.3	2425.2	2472.0	2492.5	2497.1
20°	4061.0	3874.0	3284.2	2539.3	2240.4	2253.0	2330.5	2412.7	2464.0	2490.2	2497.1
22.5°	4269.8	4015.4	3186.1	2302.0	2124.1	2182.2	2273.5	2353.4	2407.0	2433.2	2440.1
25°	4508.2	4174.0	3032.1	2102.4	2023.7	2102.4	2193.7	2259.8	2303.2	2327.1	2334.0
27.5°	4772.9	4339.4	2826.8	1943.8	1935.8	2020.3	2095.5	2146.9	2169.7	2187.9	2194.8
30°	5038.7	4490.0	2578.1	1824.0	1859.4	1939.3	1992.9	2015.7	2022.5	2026.0	2033.9
32.5°	5326.1	4620.0	2316.9	1724.8	1786.4	1860.6	1892.5	1902.8	1870.8	1849.1	1856.0
35°	5674.1	4759.2	2061.3	1646.1	1714.5	1778.4	1788.7	1779.6	1741.9	1697.4	1699.7
37.5°	6104.1	4932.6	1857.1	1590.2	1647.2	1689.4	1676.9	1674.6	1678.0	1625.6	1629.0
40°	6631.1	5158.4	1707.7	1546.8	1592.5	1601.6	1566.2	1585.6	1602.7	1522.9	1525.2
42.5°	7216.3	5431.1	1613.0	1517.2	1546.8	1525.2	1470.4	1492.1	1489.8	1384.9	1383.7
45°	7813.0	5727.7	1579.9	1495.5	1504.6	1461.3	1400.8	1406.5	1358.6	1263.9	1267.4
47.5°	8406.1	6045.9	1600.5	1477.3	1452.2	1403.1	1356.3	1331.2	1260.5	1189.8	1189.8
50°	8987.9	6380.2	1675.8	1440.8	1380.3	1351.8	1317.6	1273.1	1197.8	1137.3	1132.8
52.5°	9527.5	6716.7	1760.2	1380.3	1290.2	1307.3	1285.6	1234.3	1160.1	1098.5	1099.7
55°	10038.5	7053.2	1793.2	1297.0	1205.8	1268.5	1256.0	1161.3	1072.3	1022.1	1017.5
57.5°	10595.2	7458.2	1756.7	1190.9	1137.3	1224.0	1176.1	1071.2	1019.8	982.2	978.8
60°	11366.4	8093.6	1678.0	1059.8	1072.3	1157.9	1075.7	1032.4	976.5	934.3	932.0
62.5°	12647.4	9278.8	1551.4	929.7	995.9	1059.8	1027.8	984.5	927.4	886.4	886.4
65°	14541.1	10926.0	1313.0	828.2	910.3	963.9	976.5	933.1	873.8	830.5	832.7
67.5°	16138.1	11959.6	993.6	743.8	822.5	886.4	921.7	879.5	816.8	774.6	775.7
70°	16050.3	11209.0	758.6	660.5	744.9	809.9	855.6	822.5	755.2	715.2	718.7
72.5°	14255.9	9376.9	613.7	576.1	666.2	730.1	784.8	759.7	691.3	652.5	652.5
75°	10473.2	6656.2	490.5	490.5	568.1	646.8	707.3	691.3	628.5	601.2	593.2
77.5°	4414.7	2792.5	384.4	407.2	472.3	555.5	630.8	636.5	581.8	616.0	559.0
80°	1173.8	770.0	293.2	320.5	370.7	458.6	548.7	546.4	487.1	455.2	423.2
82.5°	447.2	303.4	208.8	225.9	268.1	351.3	434.6	448.3	389.0	336.5	336.5
85°	172.3	130.0	128.9	135.7	156.3	232.7	328.5	339.9	293.2	248.7	256.7
87.5°	44.5	38.8	47.9	45.6	71.9	124.3	188.2	195.1	179.1	103.8	148.3
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)