

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: P883267

Luminaire Tested: **NAV-SB3C-740-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883267
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-SB3C-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23997 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

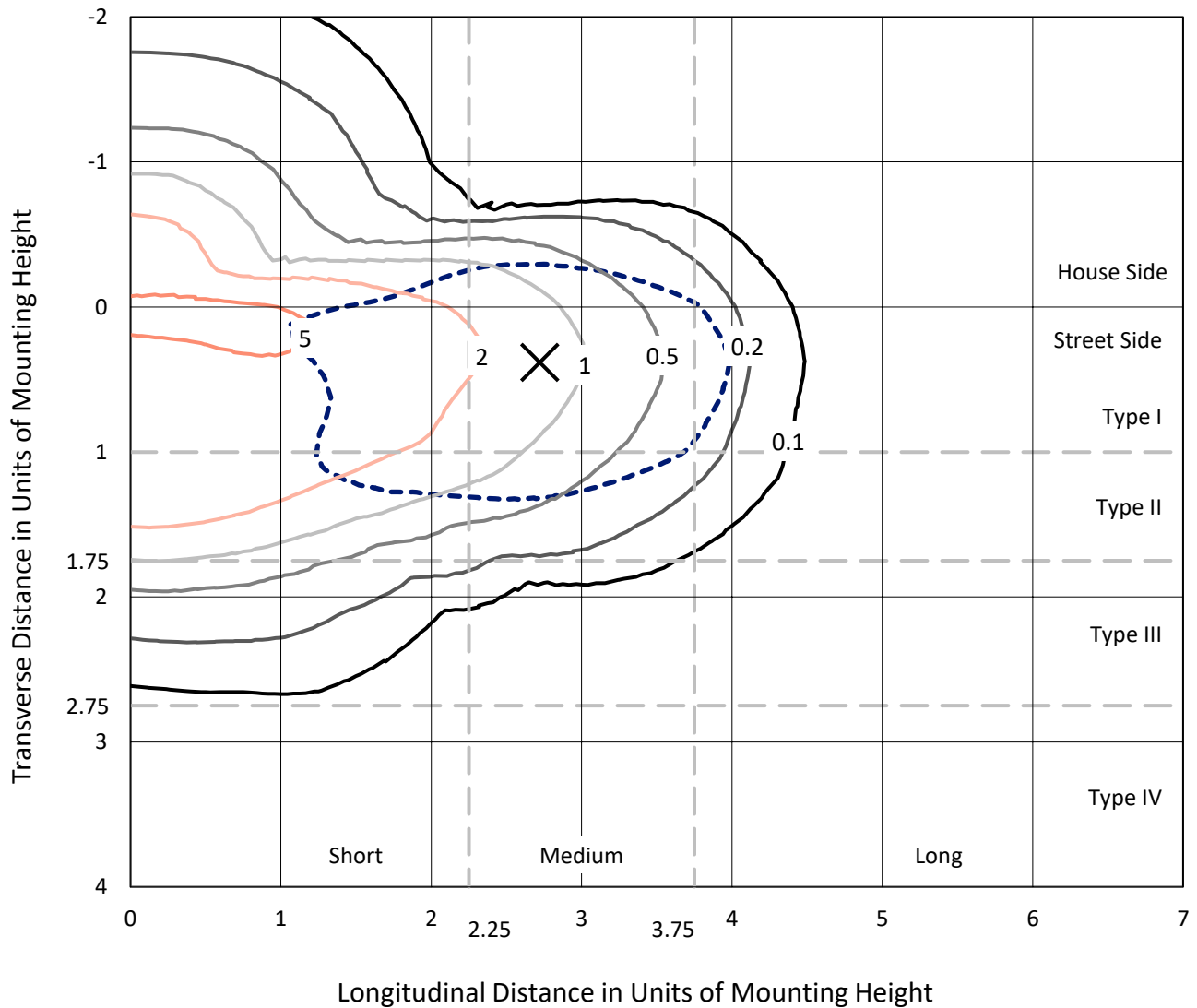
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

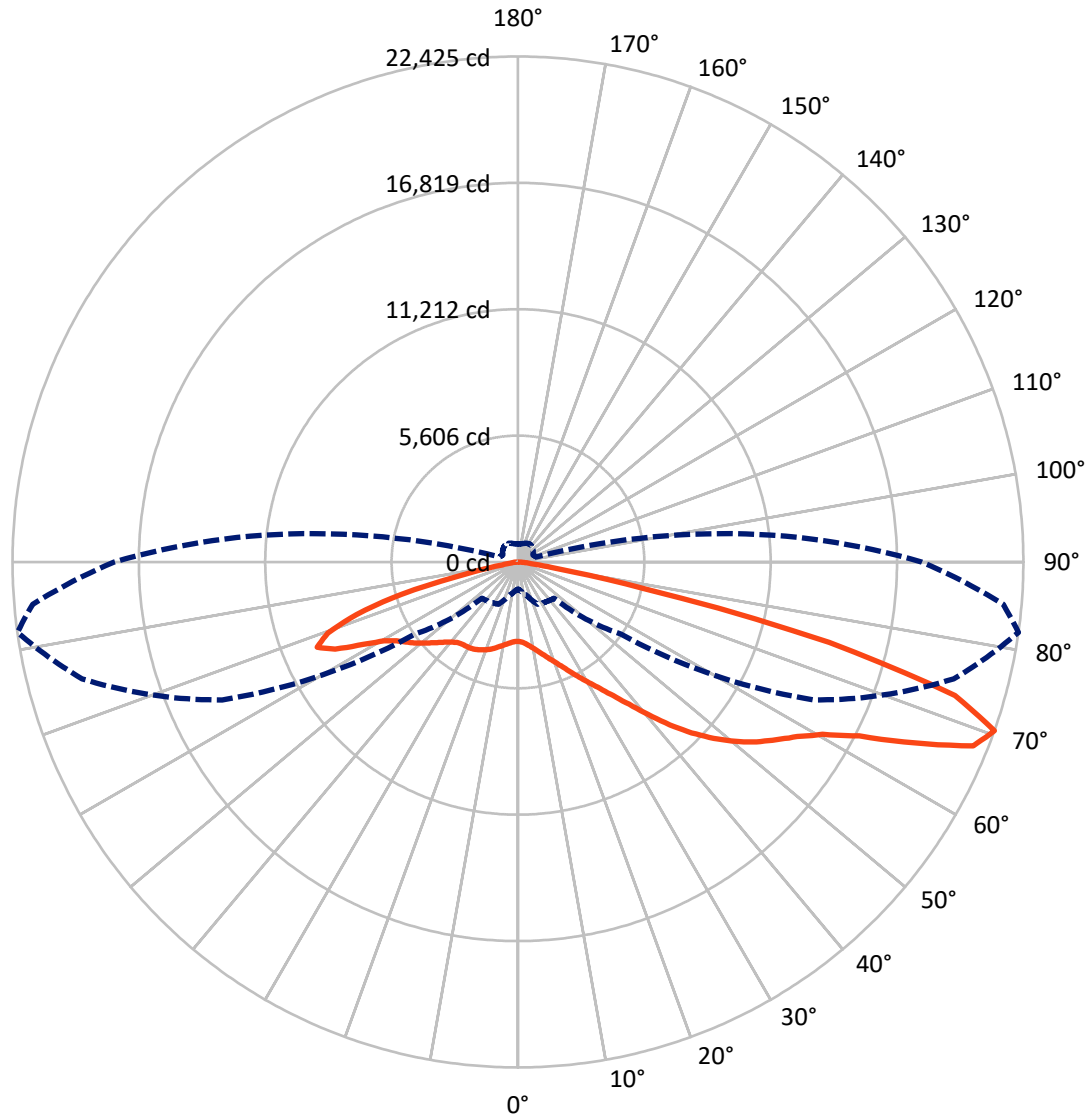
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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
House Side	Lumens	5915.8	0.0	5915.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	18081.2	0.0	18081.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	23997.0	0.0	23997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.2	1.4
10°-20°	954.4	4.0
20°-30°	1596.6	6.7
30°-40°	2494.3	10.4
40°-50°	3972.5	16.6
50°-60°	5528.2	23.0
60°-70°	5782.7	24.1
70°-80°	3022.4	12.6
80°-90°	313.8	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°	23997.0	100.0
0°-180°	23997.0	100.0

Coefficient of Utilization



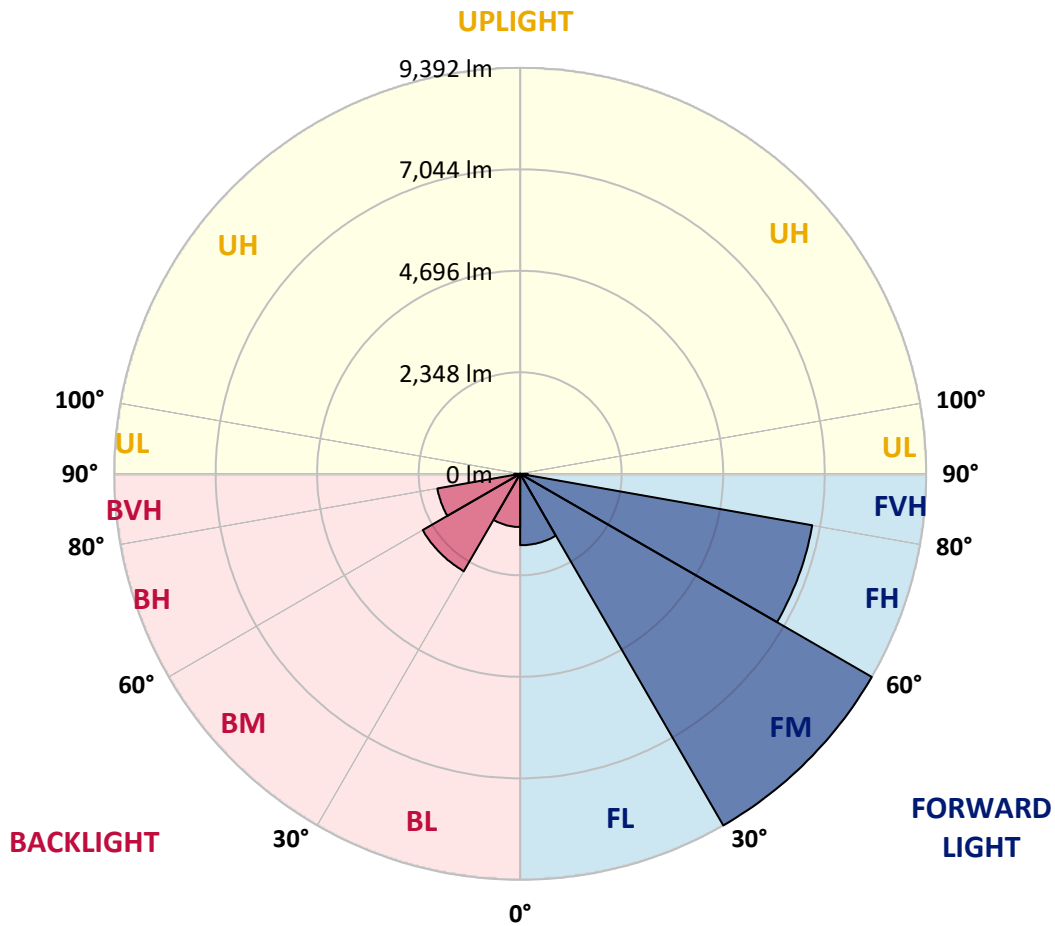
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.5	6.9			
FM (30°-60°)	9392.2	39.1			
FH (60°-80°)	6860.8	28.6			G3/7500
FVH (80°-90°)	175.7	0.7			G2/225
BL (0°-30°)	1230.7	5.1	B3/2500		
BM (30°-60°)	2602.7	10.8	B3/5000		
BH (60°-80°)	1944.2	8.1	B3/2500		G3/2500
BVH (80°-90°)	138.1	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°	3518.3	3518.3	3518.3	3518.3	3518.3	3518.3	3518.3	3518.3	3518.3	3518.3	3518.3
2.5°	3602.3	3622.7	3616.3	3609.9	3609.9	3601.0	3599.8	3587.0	3576.8	3560.3	3556.5
5°	3648.1	3669.8	3667.2	3672.3	3688.9	3692.7	3696.5	3688.9	3668.5	3648.1	3639.2
7.5°	3607.4	3631.6	3639.2	3669.8	3720.7	3766.6	3800.9	3815.0	3795.9	3766.6	3752.6
10°	3469.9	3496.6	3523.4	3595.9	3686.3	3794.6	3886.3	3941.0	3937.2	3909.2	3885.0
12.5°	3191.0	3219.0	3276.3	3417.7	3583.2	3774.2	3944.8	4059.4	4098.9	4078.5	4036.5
15°	2968.2	2992.4	3035.7	3180.8	3396.0	3686.3	3966.5	4189.3	4289.9	4278.4	4227.5
17.5°	2961.8	2972.0	2998.7	3067.5	3233.0	3548.8	3943.6	4316.6	4508.9	4507.7	4444.0
20°	3073.9	3077.7	3093.0	3107.0	3201.2	3444.4	3885.0	4422.3	4754.7	4754.7	4685.9
22.5°	3229.2	3226.7	3241.9	3229.2	3275.1	3435.5	3848.1	4515.3	5028.5	5048.8	4962.2
25°	3462.2	3449.5	3445.7	3416.4	3425.3	3518.3	3888.8	4621.0	5353.2	5395.2	5286.9
27.5°	3772.9	3752.6	3738.5	3671.1	3648.1	3688.9	4013.6	4748.3	5714.8	5787.4	5649.8
30°	4177.9	4140.9	4120.6	4003.4	3920.6	3927.0	4202.0	4917.7	6093.0	6210.1	6035.7
32.5°	4730.5	4673.2	4618.4	4426.2	4274.6	4225.0	4445.3	5152.0	6503.0	6690.2	6466.1
35°	5349.3	5303.5	5244.9	4948.2	4715.2	4600.6	4773.8	5479.2	6983.0	7279.7	6988.1
37.5°	5945.3	5905.8	5933.8	5534.0	5233.5	5066.7	5204.2	5918.5	7575.1	8013.2	7642.6
40°	6561.6	6531.0	6534.8	6152.8	5802.6	5615.5	5726.2	6469.9	8253.8	8885.4	8429.6
42.5°	7231.3	7208.4	7132.0	6793.3	6399.8	6225.4	6327.3	7106.6	8982.2	9878.6	9292.9
45°	7981.3	7967.3	7896.0	7507.7	7056.9	6860.8	6998.3	7809.4	9714.4	10813.3	10160.0
47.5°	8629.5	8640.9	8632.0	8304.8	7837.5	7549.7	7713.9	8542.9	10395.6	11691.9	10991.5
50°	8941.4	9001.3	9089.2	8987.3	8697.0	8404.1	8435.9	9250.9	11045.0	12515.7	11788.7
52.5°	8778.5	8891.8	9131.2	9294.2	9406.2	9345.1	9259.8	9953.8	11656.2	13259.4	12542.5
55°	8171.1	8330.2	8727.5	9121.0	9692.7	10137.1	10249.2	10733.0	12252.2	13913.9	13255.6
57.5°	7064.5	7323.0	7679.6	8475.4	9438.1	10520.4	11402.8	11814.1	12883.7	14612.9	14001.7
60°	5167.2	5513.6	5956.7	7140.9	8546.7	10315.4	12384.6	13474.6	13781.4	15518.3	14973.3
62.5°	3306.9	3520.8	3928.3	5043.7	6659.6	9264.9	12685.1	15550.1	15303.1	17003.0	16430.0
65°	2264.0	2401.5	2774.6	3401.1	4305.2	6896.5	11880.3	17106.2	17719.9	19356.2	18920.7
67.5°	1645.2	1749.6	2067.9	2616.7	2805.2	4081.1	9219.0	17034.8	20069.2	21780.6	21103.2
70°	1199.5	1273.3	1540.8	2067.9	2158.3	2270.4	5584.9	14480.5	20018.3	22424.9	21613.8
72.5°	888.8	939.7	1119.3	1604.4	1747.0	1533.1	2764.4	10524.2	17201.7	20283.2	19632.5
75°	643.0	681.2	813.7	1227.5	1398.1	1167.7	1379.0	6150.3	11998.8	14267.9	14382.5
77.5°	491.5	520.8	607.4	899.0	1119.3	876.1	855.7	2829.4	5689.3	5717.3	6038.2
80°	394.7	413.8	461.0	632.9	858.2	655.8	557.7	1142.2	1798.0	1521.7	1596.8
82.5°	290.3	322.2	389.6	444.4	613.8	452.0	340.0	576.8	683.8	588.3	593.4
85°	165.5	187.2	235.6	318.3	392.2	276.3	194.8	255.9	318.3	261.0	233.0
87.5°	58.6	76.4	82.8	124.8	170.6	114.6	75.1	73.9	104.4	77.7	64.9
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°	3518.3	3518.3	3518.3	3518.3	3518.3	3518.3	3518.3	3518.3	3518.3	3518.3	3518.3
2.5°	3543.7	3537.4	3511.9	3477.5	3441.9	3407.5	3396.0	3371.8	3355.3	3346.4	3356.5
5°	3615.0	3594.7	3534.8	3458.4	3378.2	3291.6	3230.5	3174.5	3133.7	3095.5	3110.8
7.5°	3716.9	3681.2	3578.1	3444.4	3301.8	3157.9	3050.9	2969.4	2914.7	2879.0	2886.7
10°	3835.3	3780.6	3622.7	3422.8	3202.5	2996.2	2870.1	2800.1	2765.7	2746.6	2751.7
12.5°	3971.6	3893.9	3668.5	3373.1	3050.9	2815.4	2728.8	2708.4	2709.7	2711.0	2713.5
15°	4139.7	4031.4	3705.4	3264.9	2853.6	2676.6	2661.3	2694.4	2728.8	2745.3	2744.1
17.5°	4329.4	4176.6	3711.8	3086.6	2660.0	2587.4	2635.8	2707.1	2759.3	2782.3	2787.4
20°	4533.1	4324.3	3666.0	2834.5	2500.9	2514.9	2601.4	2693.1	2750.4	2779.7	2787.4
22.5°	4766.1	4482.2	3556.5	2569.6	2371.0	2435.9	2537.8	2626.9	2686.8	2716.1	2723.7
25°	5032.3	4659.2	3384.6	2346.8	2258.9	2346.8	2448.6	2522.5	2570.9	2597.6	2605.3
27.5°	5327.7	4843.8	3155.4	2169.8	2160.9	2255.1	2339.1	2396.4	2421.9	2442.3	2449.9
30°	5624.4	5011.9	2877.8	2036.1	2075.6	2164.7	2224.5	2250.0	2257.6	2261.5	2270.4
32.5°	5945.3	5157.1	2586.2	1925.3	1994.1	2076.8	2112.5	2123.9	2088.3	2064.1	2071.7
35°	6333.6	5312.4	2300.9	1837.4	1913.8	1985.1	1996.6	1986.4	1944.4	1894.7	1897.3
37.5°	6813.7	5506.0	2073.0	1775.0	1838.7	1885.8	1871.8	1869.3	1873.1	1814.5	1818.3
40°	7402.0	5758.1	1906.2	1726.7	1777.6	1787.8	1748.3	1770.0	1789.1	1699.9	1702.5
42.5°	8055.2	6062.4	1800.5	1693.6	1726.7	1702.5	1641.3	1665.5	1663.0	1545.8	1544.6
45°	8721.2	6393.5	1763.6	1669.4	1679.5	1631.2	1563.7	1570.0	1516.6	1410.9	1414.7
47.5°	9383.3	6748.7	1786.5	1649.0	1621.0	1566.2	1514.0	1486.0	1407.0	1328.1	1328.1
50°	10032.7	7121.8	1870.5	1608.2	1540.8	1508.9	1470.7	1421.1	1337.0	1269.5	1264.4
52.5°	10635.0	7497.5	1964.8	1540.8	1440.2	1459.3	1435.1	1377.8	1295.0	1226.2	1227.5
55°	11205.5	7873.1	2001.7	1447.8	1345.9	1416.0	1402.0	1296.3	1196.9	1140.9	1135.8
57.5°	11826.9	8325.1	1961.0	1329.4	1269.5	1366.3	1312.8	1195.7	1138.4	1096.4	1092.5
60°	12687.6	9034.4	1873.1	1182.9	1196.9	1292.4	1200.8	1152.4	1090.0	1042.9	1040.3
62.5°	14117.6	10357.4	1731.8	1037.8	1111.6	1182.9	1147.3	1098.9	1035.2	989.4	989.4
65°	16231.4	12196.1	1465.6	924.5	1016.1	1076.0	1090.0	1041.6	975.4	927.0	929.5
67.5°	18014.1	13349.8	1109.1	830.2	918.1	989.4	1028.9	981.8	911.7	864.6	865.9
70°	17916.0	12511.9	846.8	737.3	831.5	904.1	955.0	918.1	843.0	798.4	802.2
72.5°	15913.0	10466.9	685.1	643.0	743.6	814.9	876.1	848.0	771.6	728.4	728.4
75°	11690.6	7430.0	547.5	547.5	634.1	722.0	789.5	771.6	701.6	671.1	662.1
77.5°	4927.9	3117.2	429.1	454.6	527.2	620.1	704.2	710.5	649.4	687.6	623.9
80°	1310.3	859.5	327.3	357.8	413.8	511.9	612.5	609.9	543.7	508.1	472.4
82.5°	499.2	338.7	233.0	252.1	299.2	392.2	485.1	500.4	434.2	375.6	375.6
85°	192.3	145.2	143.9	151.5	174.4	259.8	366.7	379.5	327.3	277.6	286.5
87.5°	49.7	43.3	53.5	50.9	80.2	138.8	210.1	217.7	199.9	115.9	165.5
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)