

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: P885287

Luminaire Tested: **NAV-SB6C-730-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885287
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-SB6C-730-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44336 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

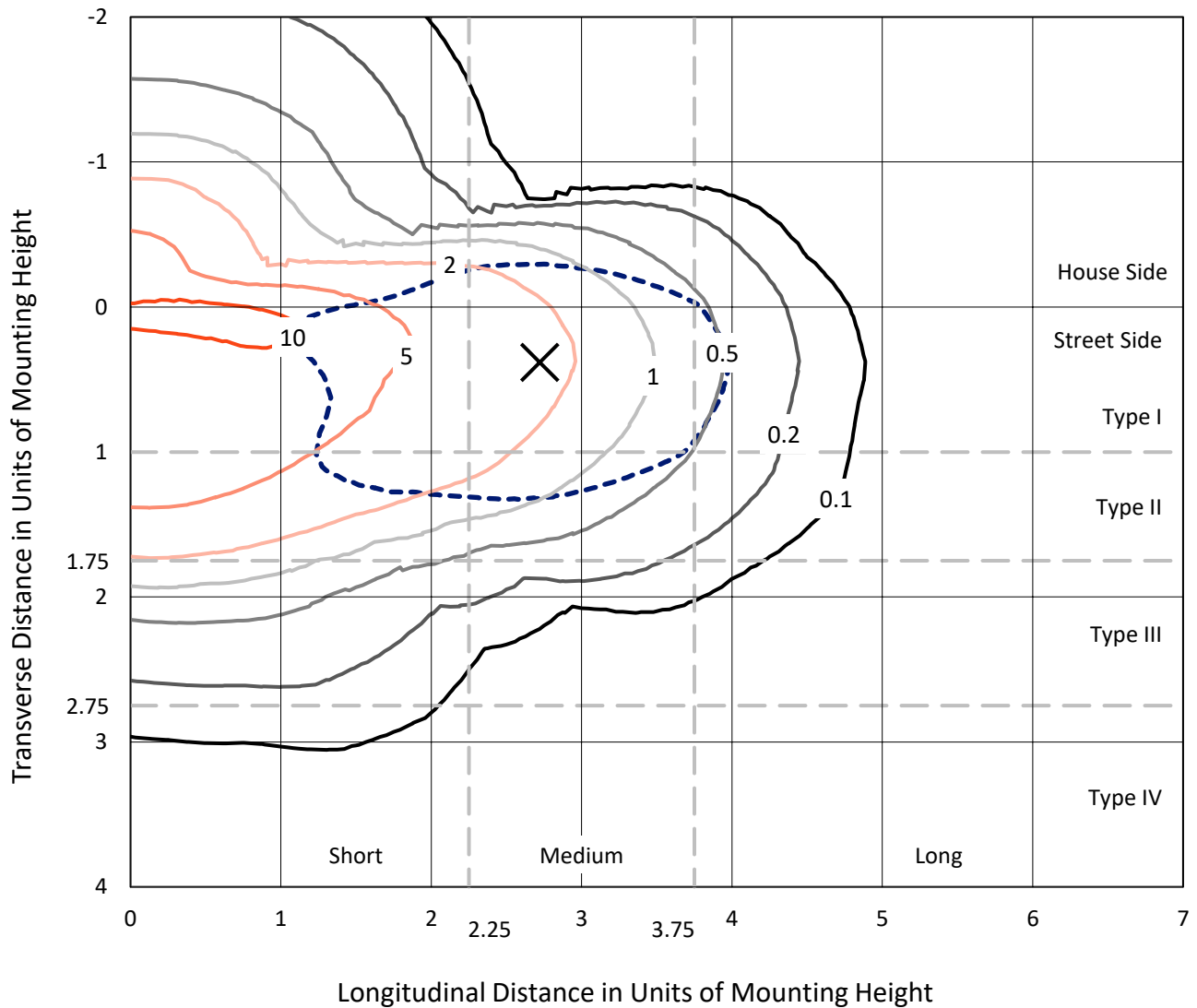
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

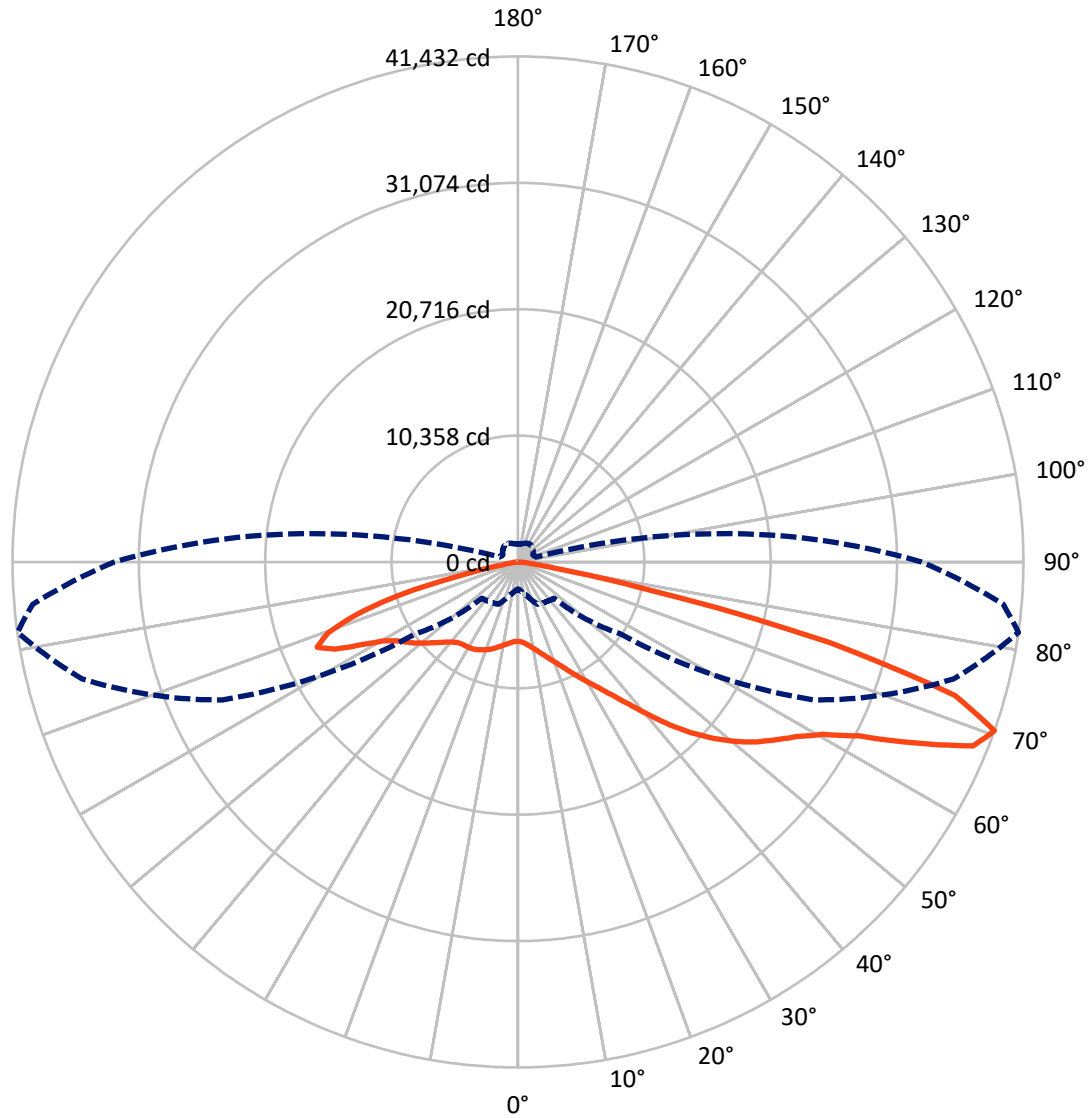
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	10929.9	0.0	10929.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	33406.1	0.0	33406.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	44336.0	0.0	44336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.7	1.4
10°-20°	1763.3	4.0
20°-30°	2949.8	6.7
30°-40°	4608.4	10.4
40°-50°	7339.4	16.6
50°-60°	10213.6	23.0
60°-70°	10683.9	24.1
70°-80°	5584.0	12.6
80°-90°	579.8	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°	44336.0	100.0
0°-180°	44336.0	100.0

Coefficient of Utilization

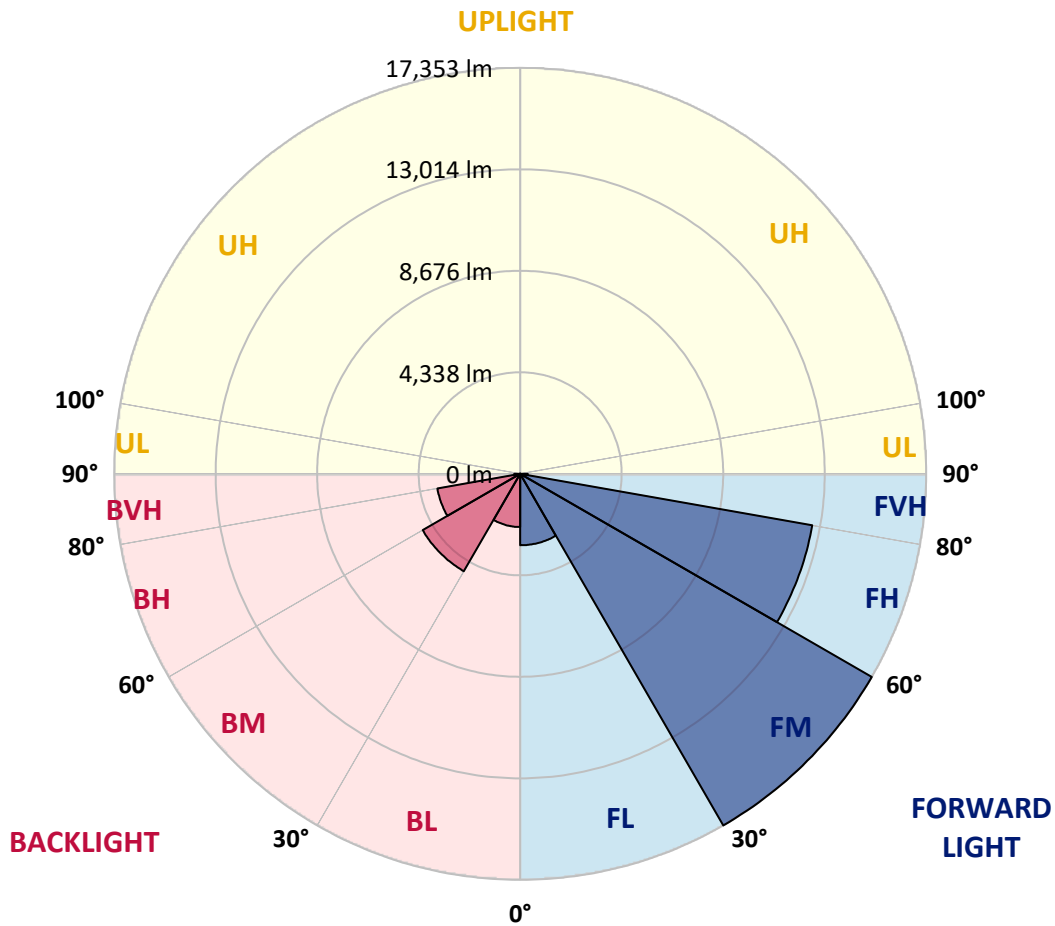


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3053.0	6.9			
FM (30°-60°)	17352.7	39.1			
FH (60°-80°)	12675.8	28.6			G5
FVH (80°-90°)	324.6	0.7			G3/500
BL (0°-30°)	2273.8	5.1	B3/2500		
BM (30°-60°)	4808.7	10.8	B3/5000		
BH (60°-80°)	3592.1	8.1	B4/5000		G4/5000
BVH (80°-90°)	255.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6500.2	6500.2	6500.2	6500.2	6500.2	6500.2	6500.2	6500.2	6500.2	6500.2	6500.2
2.5°	6655.5	6693.1	6681.4	6669.6	6669.6	6653.1	6650.8	6627.3	6608.4	6577.8	6570.8
5°	6740.2	6780.2	6775.5	6784.9	6815.5	6822.5	6829.6	6815.5	6777.8	6740.2	6723.7
7.5°	6664.9	6709.6	6723.7	6780.2	6874.3	6959.0	7022.5	7048.4	7013.1	6959.0	6933.1
10°	6410.8	6460.2	6509.6	6643.7	6810.8	7010.7	7180.1	7281.3	7274.2	7222.5	7177.8
12.5°	5895.6	5947.4	6053.2	6314.4	6620.2	6973.1	7288.3	7500.1	7573.0	7535.4	7457.7
15°	5483.9	5528.6	5608.6	5876.8	6274.4	6810.8	7328.3	7740.0	7925.9	7904.7	7810.6
17.5°	5472.1	5490.9	5540.4	5667.4	5973.2	6556.7	7286.0	7975.3	8330.5	8328.2	8210.5
20°	5679.2	5686.2	5714.4	5740.3	5914.4	6363.8	7177.8	8170.6	8784.6	8784.6	8657.5
22.5°	5966.2	5961.5	5989.7	5966.2	6050.9	6347.3	7109.5	8342.3	9290.4	9328.0	9168.1
25°	6396.7	6373.2	6366.1	6312.0	6328.5	6500.2	7184.8	8537.6	9890.3	9967.9	9768.0
27.5°	6970.7	6933.1	6907.2	6782.5	6740.2	6815.5	7415.4	8772.8	10558.4	10692.5	10438.5
30°	7718.9	7650.6	7613.0	7396.5	7243.6	7255.4	7763.6	9085.7	11257.2	11473.6	11151.3
32.5°	8739.9	8634.0	8532.9	8177.6	7897.7	7805.9	8212.9	9518.6	12014.7	12360.5	11946.5
35°	9883.2	9798.5	9690.3	9142.2	8711.6	8499.9	8819.9	10123.2	12901.6	13449.8	12911.0
37.5°	10984.3	10911.3	10963.1	10224.4	9669.2	9361.0	9615.0	10934.8	13995.6	14804.9	14120.3
40°	12122.9	12066.4	12073.5	11367.7	10720.8	10374.9	10579.6	11953.5	15249.5	16416.4	15574.2
42.5°	13360.4	13318.0	13176.9	12551.1	11824.1	11501.8	11690.0	13129.8	16595.2	18251.4	17169.2
45°	14746.0	14720.2	14588.4	13870.9	13038.1	12675.8	12929.8	14428.4	17947.9	19978.2	18771.3
47.5°	15943.5	15964.7	15948.2	15343.6	14480.2	13948.5	14252.0	15783.5	19206.6	21601.5	20307.6
50°	16519.9	16630.5	16792.8	16604.6	16068.2	15527.1	15585.9	17091.6	20406.4	23123.6	21780.3
52.5°	16218.8	16428.2	16870.4	17171.6	17378.6	17265.7	17108.0	18390.2	21535.6	24497.5	23173.0
55°	15096.6	15390.7	16124.7	16851.6	17907.9	18729.0	18936.0	19830.0	22636.6	25706.8	24490.5
57.5°	13052.2	13529.8	14188.5	15658.9	17437.4	19437.1	21067.5	21827.3	23803.5	26998.3	25869.1
60°	9546.8	10186.7	11005.4	13193.3	15790.6	19058.3	22881.3	24895.1	25462.1	28671.0	27664.1
62.5°	6109.7	6504.9	7257.7	9318.6	12304.1	17117.5	23436.5	28729.9	28273.5	31414.2	30355.5
65°	4182.9	4437.0	5126.3	6283.8	7954.1	12741.6	21949.7	31604.7	32738.7	35761.8	34957.2
67.5°	3039.5	3232.5	3820.6	4834.6	5182.8	7540.1	17032.8	31473.0	37079.2	40241.1	38989.5
70°	2216.1	2352.6	2846.6	3820.6	3987.6	4194.7	10318.5	26753.7	36985.1	41431.5	39932.9
72.5°	1642.1	1736.2	2067.9	2964.3	3227.8	2832.5	5107.5	19444.2	31781.2	37474.4	36272.3
75°	1188.1	1258.6	1503.3	2267.9	2583.1	2157.3	2547.9	11363.0	22168.5	26360.8	26572.5
77.5°	908.1	962.2	1122.2	1660.9	2067.9	1618.6	1580.9	5227.5	10511.4	10563.1	11156.0
80°	729.3	764.6	851.6	1169.2	1585.6	1211.6	1030.4	2110.3	3321.9	2811.3	2950.2
82.5°	536.4	595.2	719.9	821.1	1133.9	835.2	628.1	1065.7	1263.3	1086.9	1096.3
85°	305.8	345.8	435.2	588.1	724.6	510.5	359.9	472.9	588.1	482.3	430.5
87.5°	108.2	141.2	152.9	230.6	315.2	211.7	138.8	136.5	192.9	143.5	120.0
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°	6500.2	6500.2	6500.2	6500.2	6500.2	6500.2	6500.2	6500.2	6500.2	6500.2	6500.2
2.5°	6547.3	6535.5	6488.4	6424.9	6359.1	6295.5	6274.4	6229.7	6199.1	6182.6	6201.4
5°	6679.0	6641.4	6530.8	6389.6	6241.4	6081.5	5968.5	5865.0	5789.7	5719.2	5747.4
7.5°	6867.2	6801.3	6610.8	6363.8	6100.3	5834.4	5636.8	5486.2	5385.1	5319.2	5333.3
10°	7086.0	6984.8	6693.1	6323.8	5916.8	5535.6	5302.7	5173.4	5109.8	5074.5	5084.0
12.5°	7337.7	7194.2	6777.8	6232.0	5636.8	5201.6	5041.6	5004.0	5006.3	5008.7	5013.4
15°	7648.3	7448.3	6846.0	6032.0	5272.2	4945.1	4916.9	4978.1	5041.6	5072.2	5069.8
17.5°	7998.8	7716.5	6857.8	5702.7	4914.6	4780.5	4869.9	5001.6	5098.1	5140.4	5149.8
20°	8375.2	7989.4	6773.1	5236.9	4620.5	4646.4	4806.3	4975.7	5081.6	5135.7	5149.8
22.5°	8805.8	8281.1	6570.8	4747.5	4380.5	4500.5	4688.7	4853.4	4964.0	5018.1	5032.2
25°	9297.4	8608.1	6253.2	4335.8	4173.5	4335.8	4524.0	4660.5	4749.9	4799.3	4813.4
27.5°	9843.2	8949.3	5829.7	4008.8	3992.3	4166.4	4321.7	4427.6	4474.6	4512.3	4526.4
30°	10391.4	9259.8	5316.9	3761.8	3834.7	3999.4	4110.0	4157.0	4171.1	4178.2	4194.7
32.5°	10984.3	9528.0	4778.1	3557.1	3684.2	3837.1	3903.0	3924.1	3858.3	3813.6	3827.7
35°	11701.8	9815.0	4251.1	3394.8	3535.9	3667.7	3688.9	3670.0	3592.4	3500.7	3505.4
37.5°	12588.7	10172.6	3830.0	3279.5	3397.1	3484.2	3458.3	3453.6	3460.7	3352.4	3359.5
40°	13675.6	10638.4	3521.8	3190.1	3284.2	3303.0	3230.1	3270.1	3305.4	3140.7	3145.4
42.5°	14882.5	11200.7	3326.6	3128.9	3190.1	3145.4	3032.5	3077.2	3072.5	2856.0	2853.7
45°	16112.9	11812.4	3258.3	3084.2	3103.1	3013.7	2889.0	2900.7	2801.9	2606.7	2613.7
47.5°	17336.3	12468.7	3300.7	3046.6	2994.8	2893.7	2797.2	2745.5	2599.6	2453.8	2453.8
50°	18536.1	13158.0	3456.0	2971.3	2846.6	2787.8	2717.2	2625.5	2470.2	2345.5	2336.1
52.5°	19648.8	13852.1	3630.0	2846.6	2660.8	2696.1	2651.4	2545.5	2392.6	2265.5	2267.9
55°	20702.8	14546.1	3698.3	2674.9	2486.7	2616.1	2590.2	2394.9	2211.4	2107.9	2098.5
57.5°	21850.9	15381.2	3623.0	2456.1	2345.5	2524.3	2425.5	2209.1	2103.2	2025.6	2018.5
60°	23441.2	16691.6	3460.7	2185.6	2211.4	2387.9	2218.5	2129.1	2013.8	1926.8	1922.1
62.5°	26083.2	19136.0	3199.5	1917.4	2053.8	2185.6	2119.7	2030.3	1912.7	1828.0	1828.0
65°	29988.5	22533.1	2707.8	1708.0	1877.4	1987.9	2013.8	1924.4	1802.1	1712.7	1717.4
67.5°	33282.1	24664.6	2049.1	1533.9	1696.2	1828.0	1900.9	1813.8	1684.5	1597.4	1599.8
70°	33101.0	23116.6	1564.5	1362.2	1536.2	1670.3	1764.4	1696.2	1557.4	1475.1	1482.1
72.5°	29400.3	19338.3	1265.7	1188.1	1373.9	1505.7	1618.6	1566.8	1425.7	1345.7	1345.7
75°	21599.1	13727.4	1011.6	1011.6	1171.6	1333.9	1458.6	1425.7	1296.3	1239.8	1223.3
77.5°	9104.5	5759.1	792.8	839.9	974.0	1145.7	1301.0	1312.7	1199.8	1270.4	1152.8
80°	2420.8	1588.0	604.6	661.1	764.6	945.7	1131.6	1126.9	1004.6	938.7	872.8
82.5°	922.2	625.8	430.5	465.8	552.9	724.6	896.3	924.6	802.2	694.0	694.0
85°	355.2	268.2	265.8	280.0	322.3	479.9	677.5	701.1	604.6	512.9	529.3
87.5°	91.8	80.0	98.8	94.1	148.2	256.4	388.2	402.3	369.4	214.1	305.8
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)