

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: P884949

Luminaire Tested: **NAV-SB6A-730-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-730-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26820 lumens
Efficiency: N/A
Efficacy: 156.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

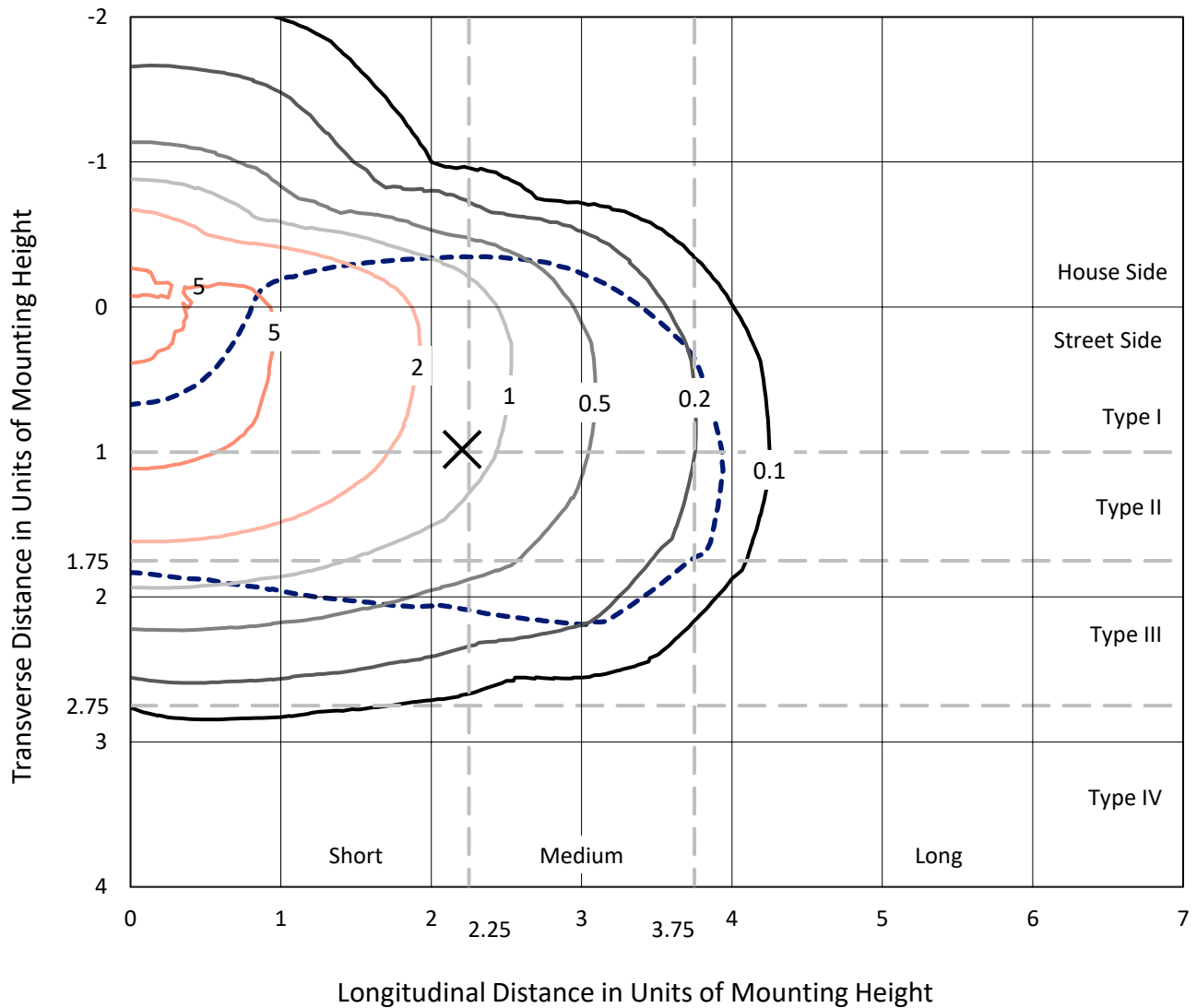
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

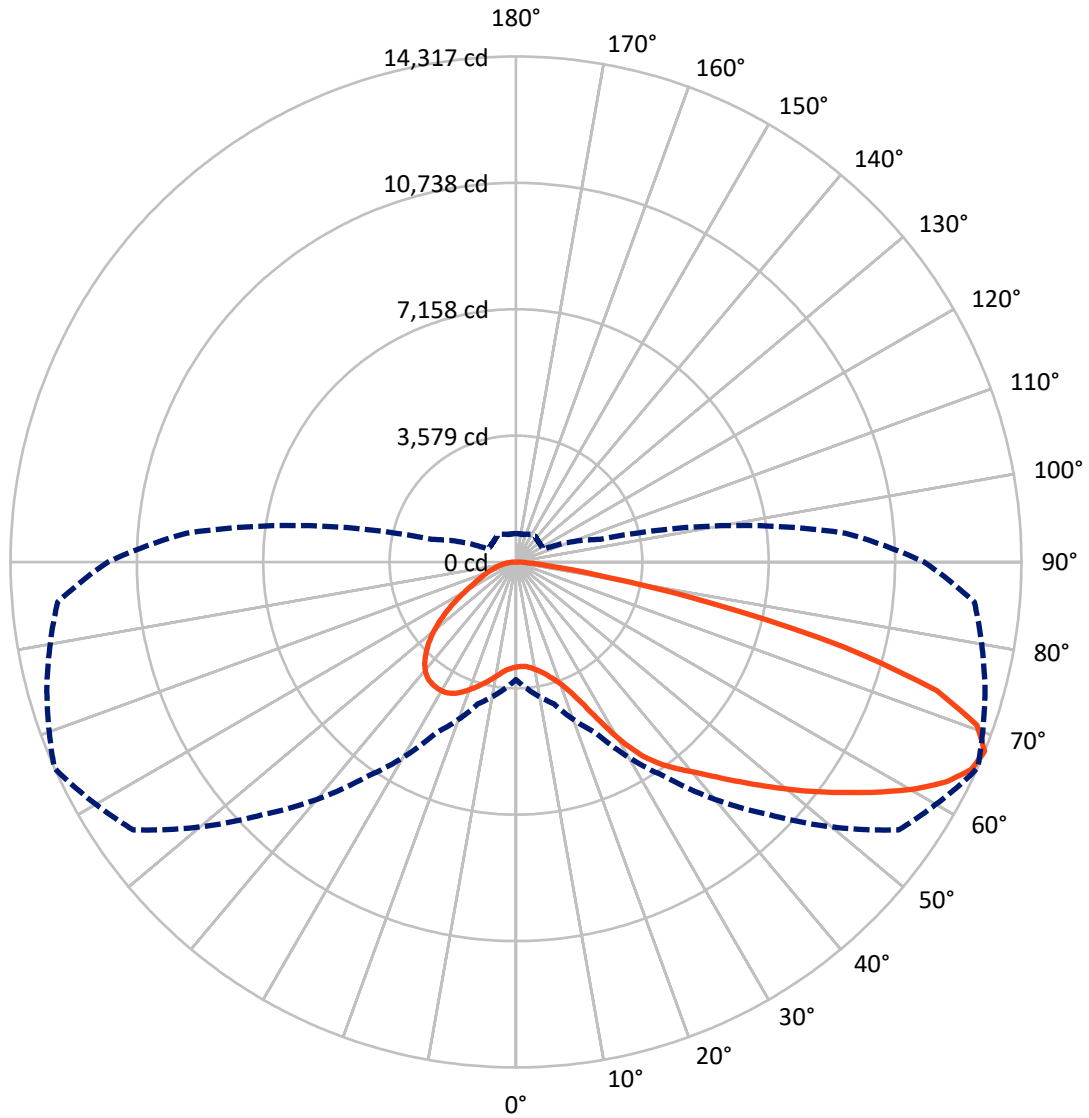
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6668.7	0.0	6668.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	20151.3	0.0	20151.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	26820.0	0.0	26820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	1.1
10°-20°	974.4	3.6
20°-30°	1878.1	7.0
30°-40°	3293.0	12.3
40°-50°	4895.6	18.3
50°-60°	6205.7	23.1
60°-70°	6072.1	22.6
70°-80°	2896.5	10.8
80°-90°	309.6	1.2
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°	26820.0	100.0
0°-180°	26820.0	100.0

Coefficient of Utilization



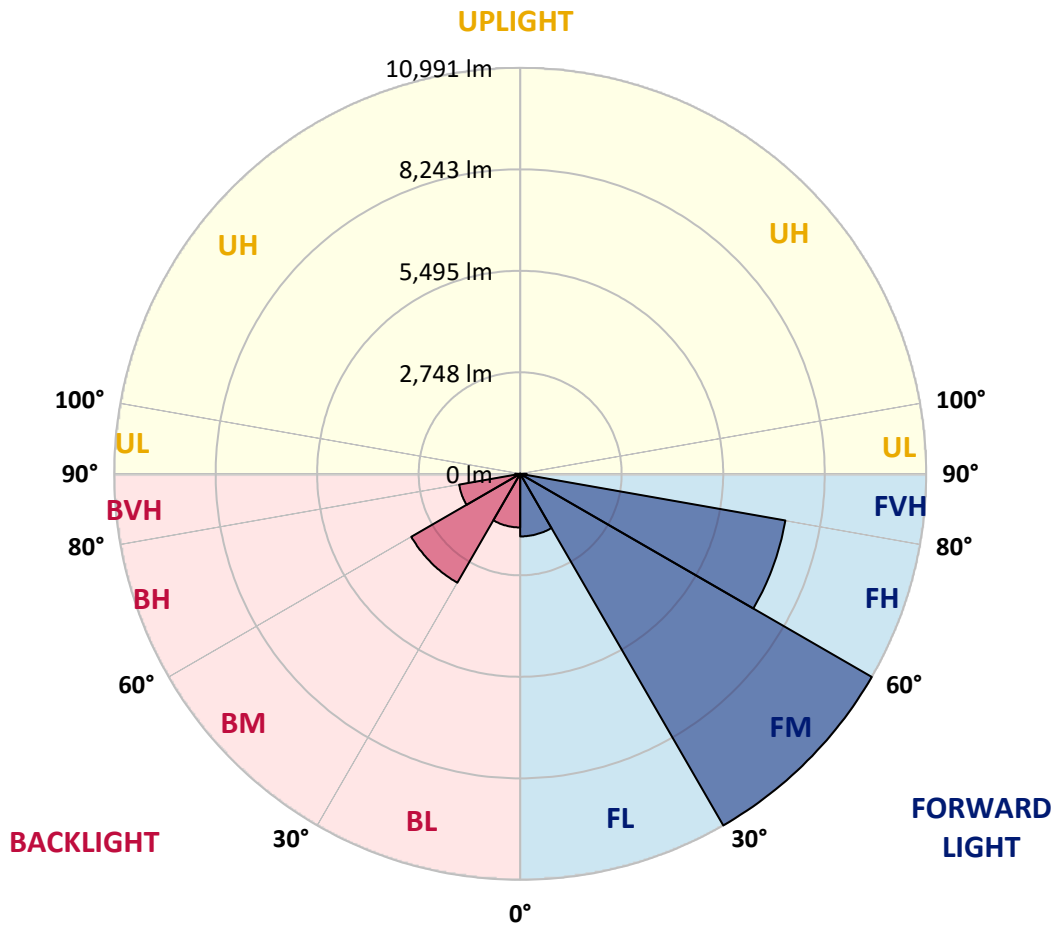
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1694.8	6.3			
FM (30°-60°)	10990.6	41.0			
FH (60°-80°)	7290.4	27.2			G3/7500
FVH (80°-90°)	175.5	0.7			G2/225
BL (0°-30°)	1452.7	5.4	B3/2500		
BM (30°-60°)	3403.8	12.7	B3/5000		
BH (60°-80°)	1678.2	6.3	B3/2500		G3/2500
BVH (80°-90°)	134.0	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7
2.5°	2943.7	2960.6	2956.4	2949.3	2947.9	2950.7	2955.0	2959.2	2957.8	2964.8	2976.1
5°	2935.2	2952.1	2950.7	2950.7	2956.4	2967.6	2974.7	2981.7	2974.7	2983.1	2998.6
7.5°	2940.9	2953.6	2959.2	2964.8	2978.9	3000.1	3017.0	3032.5	3024.0	3033.9	3053.6
10°	3012.7	3022.6	3028.2	3028.2	3038.1	3062.1	3079.0	3107.2	3100.1	3115.6	3141.0
12.5°	3143.8	3153.7	3153.7	3148.0	3155.1	3170.6	3176.2	3207.2	3194.5	3219.9	3245.2
15°	3304.4	3324.2	3308.7	3298.8	3301.6	3317.1	3315.7	3339.7	3327.0	3348.1	3370.7
17.5°	3482.0	3507.3	3482.0	3480.6	3474.9	3491.8	3493.3	3514.4	3491.8	3507.3	3522.8
20°	3691.9	3727.2	3706.0	3713.1	3700.4	3707.4	3714.5	3745.5	3710.3	3721.5	3717.3
22.5°	3987.9	4030.1	4007.6	4034.4	4025.9	4020.3	4018.9	4073.8	4018.9	4023.1	3982.2
25°	4419.1	4469.8	4430.3	4467.0	4467.0	4485.3	4506.4	4576.9	4485.3	4458.5	4352.8
27.5°	5056.0	5106.7	5029.2	5051.8	5044.7	5089.8	5067.3	5242.0	5143.4	5099.7	4886.9
30°	5822.6	5912.7	5766.2	5760.6	5753.5	5825.4	5857.8	5973.3	5873.3	5829.6	5573.1
32.5°	6651.1	6745.5	6570.8	6520.1	6493.3	6537.0	6510.2	6603.2	6534.2	6466.5	6149.5
35°	7527.6	7620.6	7454.3	7355.7	7248.6	7157.0	7061.2	7085.2	7020.3	6917.5	6589.1
37.5°	8356.2	8526.7	8350.6	8244.9	8047.6	7868.6	7600.9	7489.6	7429.0	7334.6	7003.4
40°	9200.3	9297.5	9163.6	9073.4	8859.3	8578.8	8150.5	7915.1	7833.4	7741.8	7461.4
42.5°	9821.7	9914.7	9842.8	9780.8	9613.1	9287.6	8733.8	8439.3	8321.0	8218.1	7980.0
45°	10314.9	10383.9	10338.9	10361.4	10289.5	9973.9	9338.4	9001.6	8879.0	8753.6	8566.2
47.5°	10513.6	10586.9	10658.7	10792.6	10915.2	10682.7	9988.0	9610.3	9480.7	9352.5	9167.9
50°	10491.0	10565.7	10774.3	11058.9	11439.4	11361.9	10672.8	10258.5	10138.8	9992.2	9821.7
52.5°	10310.7	10395.2	10663.0	11136.4	11742.4	11870.6	11370.3	10927.9	10815.1	10640.4	10469.9
55°	9837.2	9887.9	10289.5	10960.3	11814.2	12225.7	12053.8	11640.9	11528.2	11284.4	11098.4
57.5°	8959.3	9032.6	9617.4	10485.4	11633.9	12466.7	12654.1	12390.6	12282.1	11931.2	11736.7
60°	7813.7	7930.6	8600.0	9687.8	11174.5	12465.2	13199.4	13127.5	13037.4	12568.1	12365.2
62.5°	6517.3	6652.5	7296.5	8560.5	10371.3	12111.5	13540.4	13744.7	13698.2	13155.7	12896.4
65°	5005.3	5098.3	5739.4	7102.1	9121.4	11352.0	13579.9	14166.1	14174.5	13602.4	13174.0
67.5°	3332.6	3600.4	4157.0	5329.4	7447.3	10110.6	13233.2	14235.1	14316.9	13756.0	13034.5
70°	1626.1	1978.4	2523.8	3463.7	5329.4	8206.8	12327.1	13668.6	13850.4	13307.9	12203.1
72.5°	675.0	789.1	1086.4	1709.3	3059.2	5537.9	10506.5	12132.7	12469.5	11791.7	10259.9
75°	455.2	493.2	621.4	876.5	1393.6	2730.9	7576.9	9046.7	9589.2	8905.8	7279.6
77.5°	350.9	374.8	452.3	613.0	828.6	1032.9	4055.5	5452.0	5732.4	5306.8	3787.8
80°	276.2	294.5	338.2	446.7	587.6	552.4	1382.4	2470.2	2632.3	2208.1	1217.5
82.5°	239.6	246.6	242.4	303.0	390.3	322.7	453.7	911.7	1006.1	729.9	397.4
85°	173.3	193.1	201.5	187.4	207.1	163.5	186.0	322.7	355.1	317.1	224.1
87.5°	70.5	104.3	128.2	121.2	76.1	46.5	57.8	94.4	108.5	118.4	73.3
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°	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7
2.5°	2977.5	2987.4	2994.4	3002.9	3008.5	3017.0	3033.9	3043.7	3045.1	3052.2	3050.8
5°	3004.3	3018.4	3033.9	3056.4	3081.8	3102.9	3135.3	3157.9	3166.3	3173.4	3172.0
7.5°	3062.1	3081.8	3110.0	3149.4	3186.1	3214.2	3253.7	3280.5	3307.2	3317.1	3318.5
10°	3148.0	3176.2	3217.1	3270.6	3310.1	3346.7	3387.6	3410.1	3436.9	3448.2	3453.8
12.5°	3255.1	3284.7	3338.3	3412.9	3449.6	3474.9	3489.0	3483.4	3489.0	3498.9	3501.7
15°	3377.7	3410.1	3470.7	3551.0	3576.4	3553.8	3522.8	3494.7	3490.4	3493.3	3503.1
17.5°	3522.8	3546.8	3617.3	3684.9	3666.6	3573.6	3505.9	3460.8	3438.3	3431.3	3441.1
20°	3725.8	3725.8	3783.5	3825.8	3703.2	3545.4	3439.7	3366.4	3319.9	3300.2	3296.0
22.5°	3972.4	3949.8	3986.5	3956.9	3696.2	3466.5	3319.9	3193.1	3122.7	3094.5	3090.2
25°	4285.2	4258.4	4248.6	4065.4	3645.4	3341.1	3102.9	2949.3	2887.3	2871.8	2874.6
27.5°	4757.3	4689.6	4561.4	4124.5	3552.4	3143.8	2849.3	2707.0	2671.7	2673.1	2677.4
30°	5385.7	5250.5	4936.2	4134.4	3400.3	2864.8	2590.0	2488.5	2471.6	2478.7	2502.6
32.5°	5967.7	5839.5	5319.5	4089.3	3166.3	2591.4	2357.5	2289.9	2264.5	2272.9	2284.2
35°	6424.3	6389.0	5674.6	4025.9	2878.9	2334.9	2148.9	2091.2	2041.8	2030.6	2039.0
37.5°	6855.5	6841.4	5940.9	3937.1	2594.2	2153.2	1981.2	1905.2	1833.3	1793.8	1795.2
40°	7328.9	7314.8	6115.7	3800.4	2342.0	1995.3	1830.5	1730.4	1641.6	1569.8	1576.8
42.5°	7861.6	7778.4	6198.8	3604.6	2127.8	1861.5	1707.9	1572.6	1455.6	1389.4	1393.6
45°	8443.6	8256.1	6197.4	3355.2	1947.4	1738.9	1576.8	1385.2	1276.7	1214.7	1211.9
47.5°	9060.8	8712.7	6121.3	3079.0	1772.7	1603.6	1373.9	1227.4	1155.5	1117.4	1109.0
50°	9697.7	9139.7	5991.7	2761.9	1593.7	1450.0	1247.1	1147.0	1092.1	1056.9	1044.2
52.5°	10296.6	9527.2	5835.2	2402.6	1412.0	1300.6	1190.7	1113.2	1055.4	1016.0	999.1
55°	10853.2	9861.2	5614.0	2034.8	1264.0	1200.6	1163.9	1099.1	1032.9	986.4	968.1
57.5°	11347.8	10078.2	5232.1	1689.6	1158.3	1131.5	1135.8	1075.2	999.1	959.6	934.3
60°	11759.3	10237.4	4667.1	1369.7	1072.4	1063.9	1092.1	1030.1	941.3	896.2	876.5
62.5°	12005.9	10234.6	3973.8	1121.7	999.1	1001.9	1034.3	973.7	883.5	841.3	828.6
65°	11984.7	9983.7	3212.8	959.6	928.6	931.4	973.7	911.7	835.6	810.3	808.8
67.5°	11560.6	9372.2	2464.6	853.9	851.1	863.8	913.1	869.4	806.0	803.2	807.4
70°	10412.1	8102.5	1775.5	769.4	770.8	789.1	853.9	842.7	790.5	796.2	794.8
72.5°	8349.1	6177.7	1192.1	680.6	682.0	711.6	797.6	821.5	775.0	849.7	861.0
75°	5560.5	3852.6	766.6	586.2	587.6	625.7	748.3	780.7	732.8	846.9	853.9
77.5°	2671.7	1731.8	555.2	493.2	493.2	528.4	646.8	698.9	624.2	658.1	603.1
80°	923.0	651.0	436.8	397.4	388.9	412.9	545.3	605.9	538.3	496.0	465.0
82.5°	363.6	338.2	350.9	308.6	280.4	295.9	424.2	500.2	396.0	357.9	356.5
85°	208.6	219.8	248.0	204.3	162.1	181.8	311.4	359.3	298.7	263.5	269.1
87.5°	56.4	77.5	114.1	105.7	73.3	77.5	148.0	198.7	171.9	132.5	136.7
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)