

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: P884939

Luminaire Tested: **NAV-SB6A-727-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884939
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-727-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24691 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

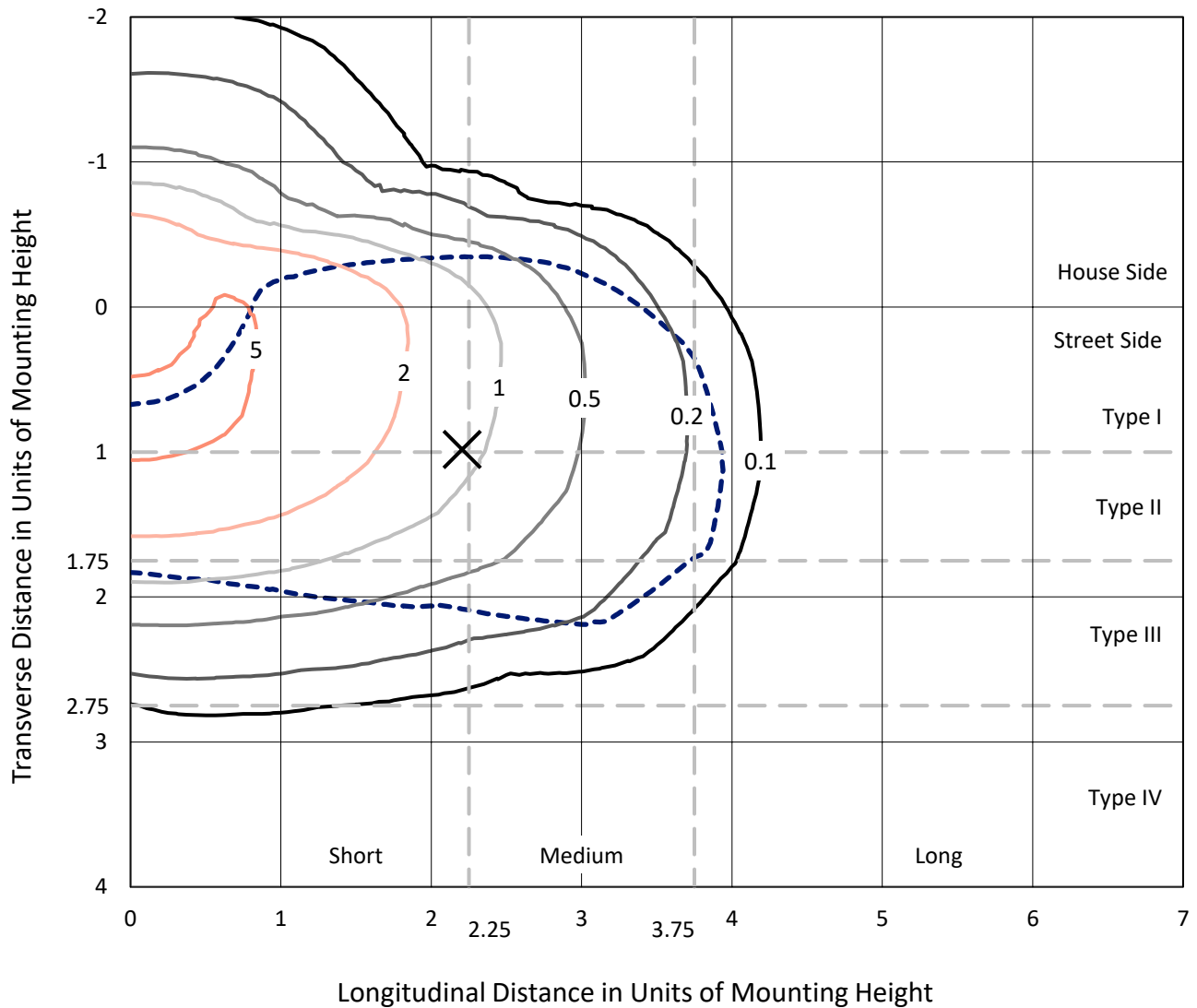
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

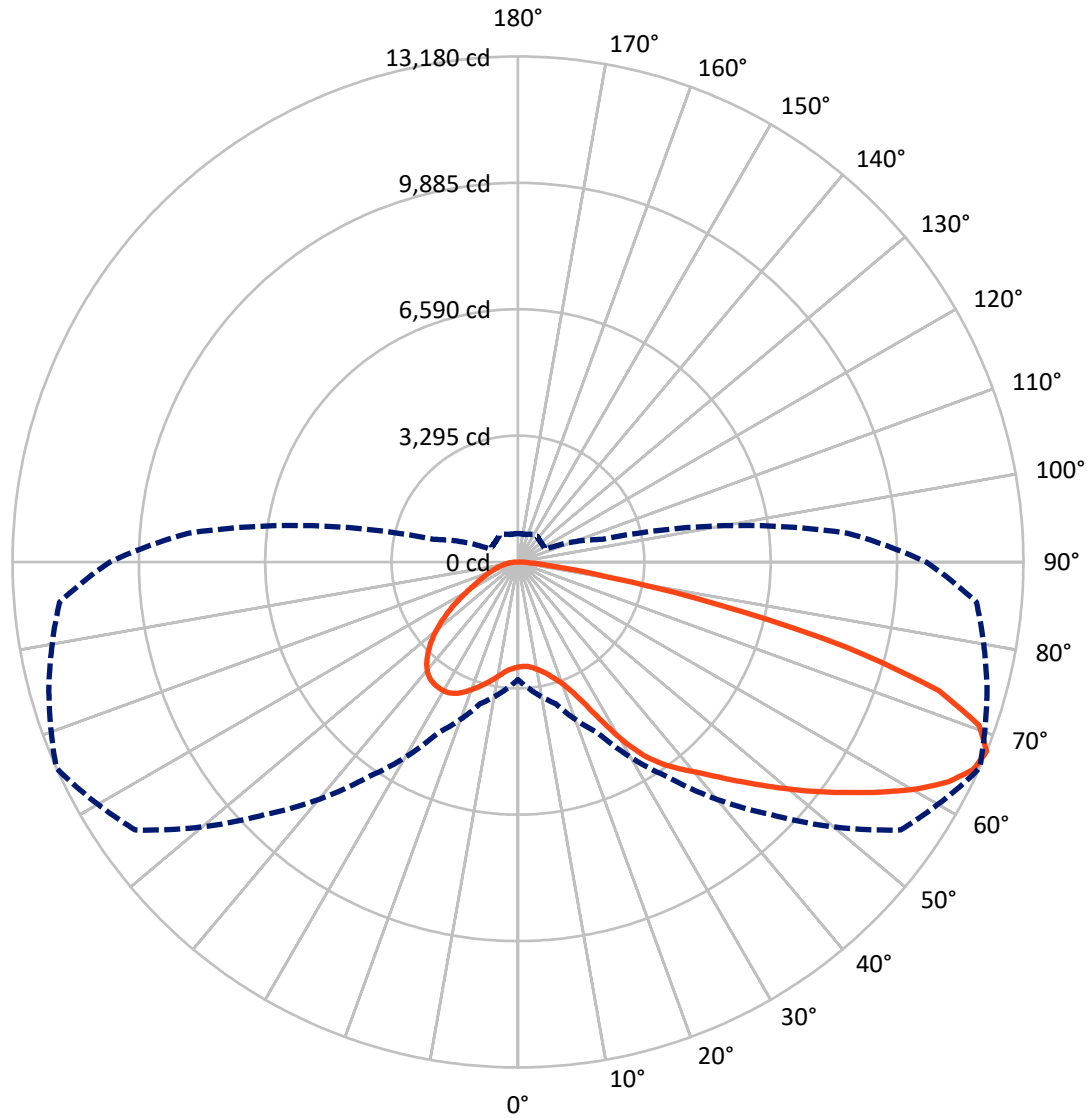
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	6139.3	0.0	6139.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	18551.6	0.0	18551.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	24691.0	0.0	24691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	1.1
10°-20°	897.1	3.6
20°-30°	1729.0	7.0
30°-40°	3031.6	12.3
40°-50°	4507.0	18.3
50°-60°	5713.1	23.1
60°-70°	5590.1	22.6
70°-80°	2666.5	10.8
80°-90°	285.0	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°	24691.0	100.0
0°-180°	24691.0	100.0

Coefficient of Utilization



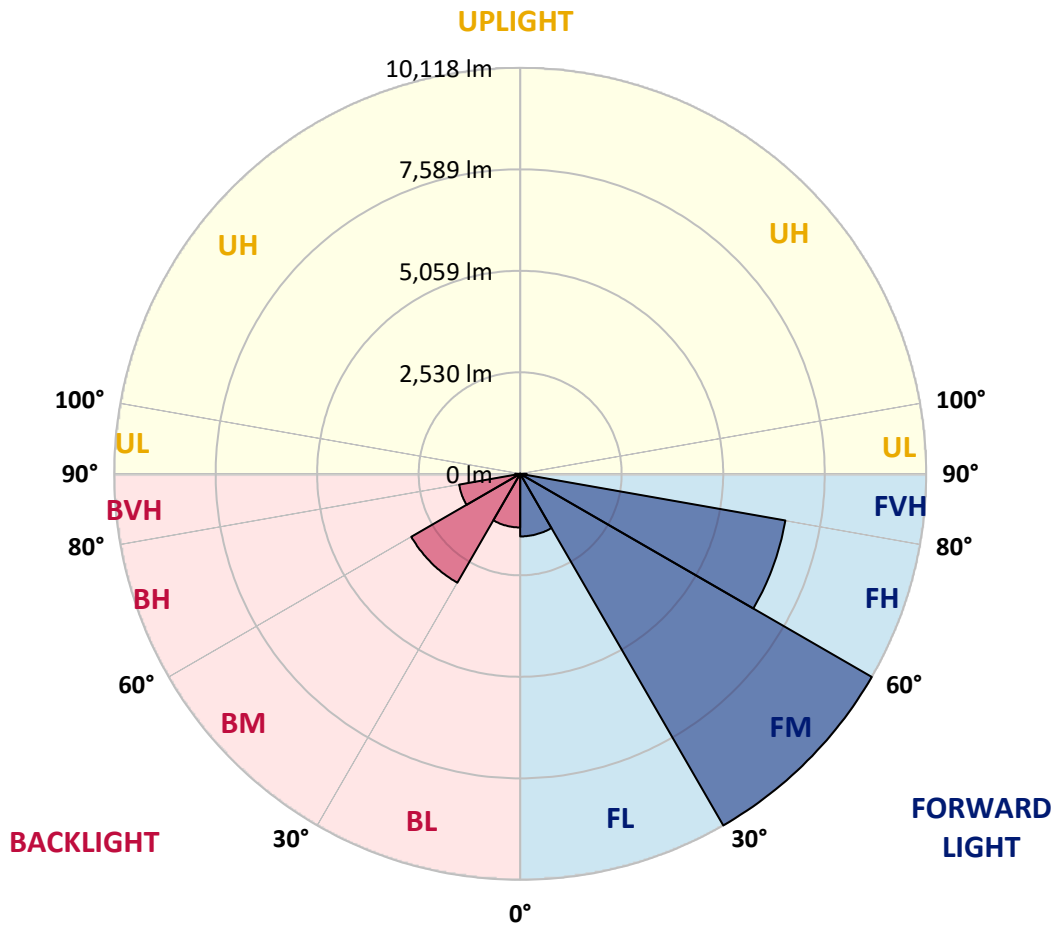
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1560.2	6.3			
FM (30°-60°)	10118.2	41.0			
FH (60°-80°)	6711.7	27.2			G3/7500
FVH (80°-90°)	161.6	0.7			G2/225
BL (0°-30°)	1337.4	5.4	B3/2500		
BM (30°-60°)	3133.6	12.7	B3/5000		
BH (60°-80°)	1545.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	123.4	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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 CATALOG NUMBER: NAV-SB6A-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6
2.5°	2710.0	2725.6	2721.7	2715.2	2713.9	2716.5	2720.4	2724.3	2723.0	2729.5	2739.9
5°	2702.2	2717.8	2716.5	2716.5	2721.7	2732.1	2738.6	2745.0	2738.6	2746.3	2760.6
7.5°	2707.4	2719.1	2724.3	2729.5	2742.5	2761.9	2777.5	2791.7	2784.0	2793.0	2811.2
10°	2773.6	2782.7	2787.9	2787.9	2796.9	2819.0	2834.6	2860.5	2854.0	2868.3	2891.6
12.5°	2894.2	2903.3	2903.3	2898.1	2904.6	2918.9	2924.1	2952.6	2940.9	2964.3	2987.6
15°	3042.1	3060.3	3046.0	3036.9	3039.5	3053.8	3052.5	3074.6	3062.9	3082.3	3103.1
17.5°	3205.6	3228.9	3205.6	3204.3	3199.1	3214.7	3216.0	3235.4	3214.7	3228.9	3243.2
20°	3398.9	3431.3	3411.8	3418.3	3406.7	3413.1	3419.6	3448.2	3415.7	3426.1	3422.2
22.5°	3671.3	3710.2	3689.5	3714.1	3706.3	3701.1	3699.8	3750.4	3699.8	3703.7	3666.1
25°	4068.3	4115.0	4078.6	4112.4	4112.4	4129.2	4148.7	4213.6	4129.2	4104.6	4007.3
27.5°	4654.6	4701.3	4630.0	4650.7	4644.3	4685.8	4665.0	4825.9	4735.1	4694.9	4499.0
30°	5360.4	5443.4	5308.5	5303.3	5296.8	5363.0	5392.8	5499.2	5407.1	5366.8	5130.7
32.5°	6123.2	6210.1	6049.2	6002.5	5977.9	6018.1	5993.4	6079.1	6015.5	5953.2	5661.3
35°	6930.1	7015.7	6862.6	6771.8	6673.2	6588.9	6500.7	6522.7	6463.0	6368.3	6066.1
37.5°	7692.9	7849.8	7687.7	7590.4	7408.8	7244.0	6997.5	6895.0	6839.3	6752.3	6447.5
40°	8469.9	8559.5	8436.2	8353.2	8156.0	7897.8	7503.5	7286.8	7211.6	7127.3	6869.1
42.5°	9042.0	9127.7	9061.5	9004.4	8850.0	8550.4	8040.5	7769.4	7660.4	7565.7	7346.5
45°	9496.1	9559.7	9518.1	9538.9	9472.7	9182.1	8597.1	8287.0	8174.2	8058.7	7886.2
47.5°	9679.0	9746.5	9812.6	9935.9	10048.7	9834.7	9195.1	8847.4	8728.1	8610.0	8440.1
50°	9658.3	9727.0	9919.0	10181.1	10531.3	10460.0	9825.6	9444.2	9333.9	9199.0	9042.0
52.5°	9492.2	9570.0	9816.5	10252.4	10810.2	10928.3	10467.8	10060.4	9956.6	9795.8	9638.8
55°	9056.3	9103.0	9472.7	10090.2	10876.4	11255.2	11096.9	10716.8	10613.0	10388.6	10217.4
57.5°	8248.1	8315.6	8853.9	9653.1	10710.3	11477.0	11649.6	11407.0	11307.1	10984.1	10805.0
60°	7193.4	7301.1	7917.3	8918.8	10287.4	11475.7	12151.6	12085.5	12002.4	11570.4	11383.6
62.5°	5999.9	6124.5	6717.3	7881.0	9548.0	11150.1	12465.6	12653.7	12610.9	12111.4	11872.7
65°	4607.9	4693.6	5283.8	6538.3	8397.3	10450.9	12501.9	13041.6	13049.3	12522.6	12128.3
67.5°	3068.1	3314.6	3827.0	4906.3	6856.1	9308.0	12182.8	13105.1	13180.4	12664.0	11999.8
70°	1497.1	1821.4	2323.4	3188.7	4906.3	7555.4	11348.6	12583.6	12751.0	12251.5	11234.4
72.5°	621.4	726.5	1000.2	1573.6	2816.4	5098.3	9672.5	11169.6	11479.6	10855.6	9445.5
75°	419.0	454.0	572.1	806.9	1283.0	2514.1	6975.5	8328.5	8828.0	8198.8	6701.7
77.5°	323.0	345.1	416.4	564.3	762.8	950.9	3733.6	5019.2	5277.3	4885.6	3487.1
80°	254.3	271.1	311.3	411.2	541.0	508.5	1272.6	2274.1	2423.3	2032.8	1120.8
82.5°	220.5	227.0	223.1	278.9	359.3	297.1	417.7	839.3	926.3	672.0	365.8
85°	159.6	177.7	185.5	172.5	190.7	150.5	171.2	297.1	326.9	291.9	206.3
87.5°	64.9	96.0	118.1	111.6	70.1	42.8	53.2	86.9	99.9	109.0	67.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P884939
 CATALOG NUMBER: NAV-SB6A-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6
2.5°	2741.2	2750.2	2756.7	2764.5	2769.7	2777.5	2793.0	2802.1	2803.4	2809.9	2808.6
5°	2765.8	2778.8	2793.0	2813.8	2837.2	2856.6	2886.4	2907.2	2915.0	2921.5	2920.2
7.5°	2819.0	2837.2	2863.1	2899.4	2933.2	2959.1	2995.4	3020.1	3044.7	3053.8	3055.1
10°	2898.1	2924.1	2961.7	3011.0	3047.3	3081.0	3118.7	3139.4	3164.1	3174.4	3179.6
12.5°	2996.7	3024.0	3073.3	3142.0	3175.7	3199.1	3212.1	3206.9	3212.1	3221.1	3223.7
15°	3109.6	3139.4	3195.2	3269.1	3292.5	3271.7	3243.2	3217.3	3213.4	3216.0	3225.0
17.5°	3243.2	3265.3	3330.1	3392.4	3375.5	3289.9	3227.6	3186.1	3165.4	3158.9	3168.0
20°	3430.0	3430.0	3483.2	3522.1	3409.3	3264.0	3166.7	3099.2	3056.4	3038.2	3034.3
22.5°	3657.0	3636.3	3670.0	3642.8	3402.8	3191.3	3056.4	2939.6	2874.8	2848.8	2844.9
25°	3945.0	3920.4	3911.3	3742.7	3356.1	3075.9	2856.6	2715.2	2658.1	2643.9	2646.5
27.5°	4379.6	4317.3	4199.3	3797.1	3270.4	2894.2	2623.1	2492.1	2459.6	2460.9	2464.8
30°	4958.2	4833.7	4544.4	3806.2	3130.3	2637.4	2384.4	2291.0	2275.4	2281.9	2304.0
32.5°	5494.0	5375.9	4897.2	3764.7	2915.0	2385.7	2170.3	2108.1	2084.7	2092.5	2102.9
35°	5914.3	5881.9	5224.1	3706.3	2650.3	2149.6	1978.4	1925.2	1879.8	1869.4	1877.2
37.5°	6311.3	6298.3	5469.3	3624.6	2388.3	1982.2	1824.0	1753.9	1687.8	1651.4	1652.7
40°	6747.2	6734.2	5630.2	3498.8	2156.1	1836.9	1685.2	1593.1	1511.3	1445.2	1451.7
42.5°	7237.5	7161.0	5706.7	3318.4	1958.9	1713.7	1572.3	1447.8	1340.1	1279.1	1283.0
45°	7773.3	7600.8	5705.4	3088.8	1792.8	1600.8	1451.7	1275.2	1175.3	1118.3	1115.7
47.5°	8341.5	8021.1	5635.4	2834.6	1632.0	1476.3	1264.8	1129.9	1063.8	1028.7	1021.0
50°	8927.9	8414.2	5516.0	2542.7	1467.2	1334.9	1148.1	1056.0	1005.4	973.0	961.3
52.5°	9479.2	8770.9	5372.0	2211.9	1299.9	1197.4	1096.2	1024.9	971.7	935.3	919.8
55°	9991.7	9078.4	5168.4	1873.3	1163.7	1105.3	1071.6	1011.9	950.9	908.1	891.2
57.5°	10447.0	9278.1	4816.8	1555.4	1066.4	1041.7	1045.6	989.8	919.8	883.4	860.1
60°	10825.8	9424.7	4296.6	1261.0	987.2	979.4	1005.4	948.3	866.6	825.1	806.9
62.5°	11052.8	9422.1	3658.3	1032.6	919.8	922.4	952.2	896.4	813.4	774.5	762.8
65°	11033.4	9191.2	2957.8	883.4	854.9	857.5	896.4	839.3	769.3	745.9	744.6
67.5°	10642.9	8628.2	2268.9	786.2	783.6	795.2	840.6	800.4	742.0	739.4	743.3
70°	9585.6	7459.4	1634.6	708.3	709.6	726.5	786.2	775.8	727.8	733.0	731.7
72.5°	7686.4	5687.3	1097.5	626.6	627.9	655.1	734.3	756.3	713.5	782.3	792.6
75°	5119.1	3546.8	705.7	539.7	541.0	576.0	688.9	718.7	674.6	779.7	786.2
77.5°	2459.6	1594.4	511.1	454.0	454.0	486.5	595.5	643.5	574.7	605.8	555.2
80°	849.7	599.3	402.2	365.8	358.0	380.1	502.0	557.8	495.6	456.6	428.1
82.5°	334.7	311.3	323.0	284.1	258.2	272.4	390.5	460.5	364.5	329.5	328.2
85°	192.0	202.4	228.3	188.1	149.2	167.3	286.7	330.8	275.0	242.6	247.8
87.5°	51.9	71.4	105.1	97.3	67.5	71.4	136.2	182.9	158.3	121.9	125.8
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)