

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: P970274

Luminaire Tested: **NAV-SB6B-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-722-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22096.9 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

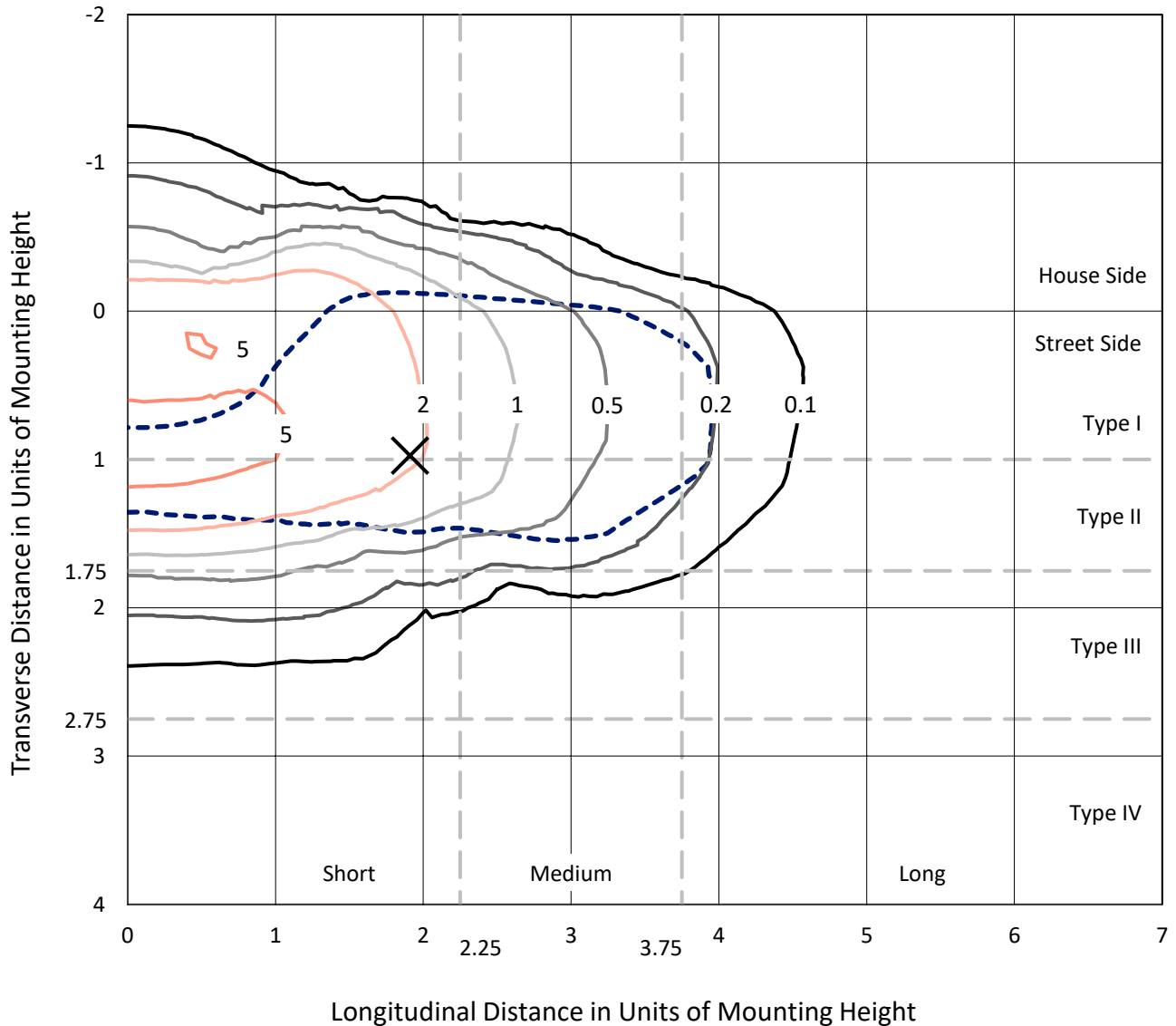
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

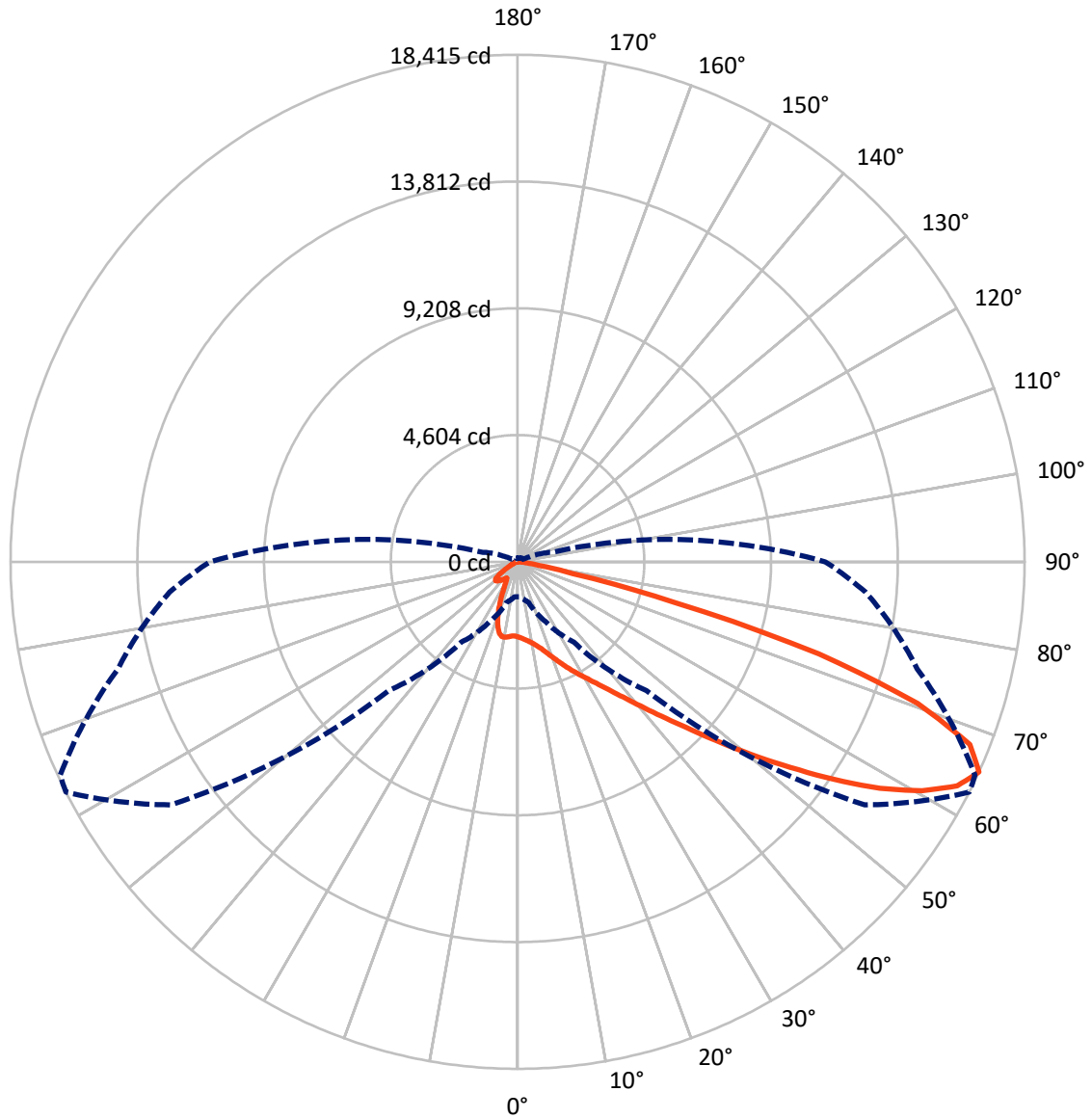
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3248.1	0.0	3248.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18848.9	0.0	18848.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	22096.9	0.0	22096.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.0	1.2
10°-20°	712.9	3.2
20°-30°	1241.4	5.6
30°-40°	2237.5	10.1
40°-50°	4437.7	20.1
50°-60°	6044.9	27.4
60°-70°	4825.0	21.8
70°-80°	2183.4	9.9
80°-90°	156.9	0.7
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°	22096.9	100.0
0°-180°	22096.9	100.0

Coefficient of Utilization



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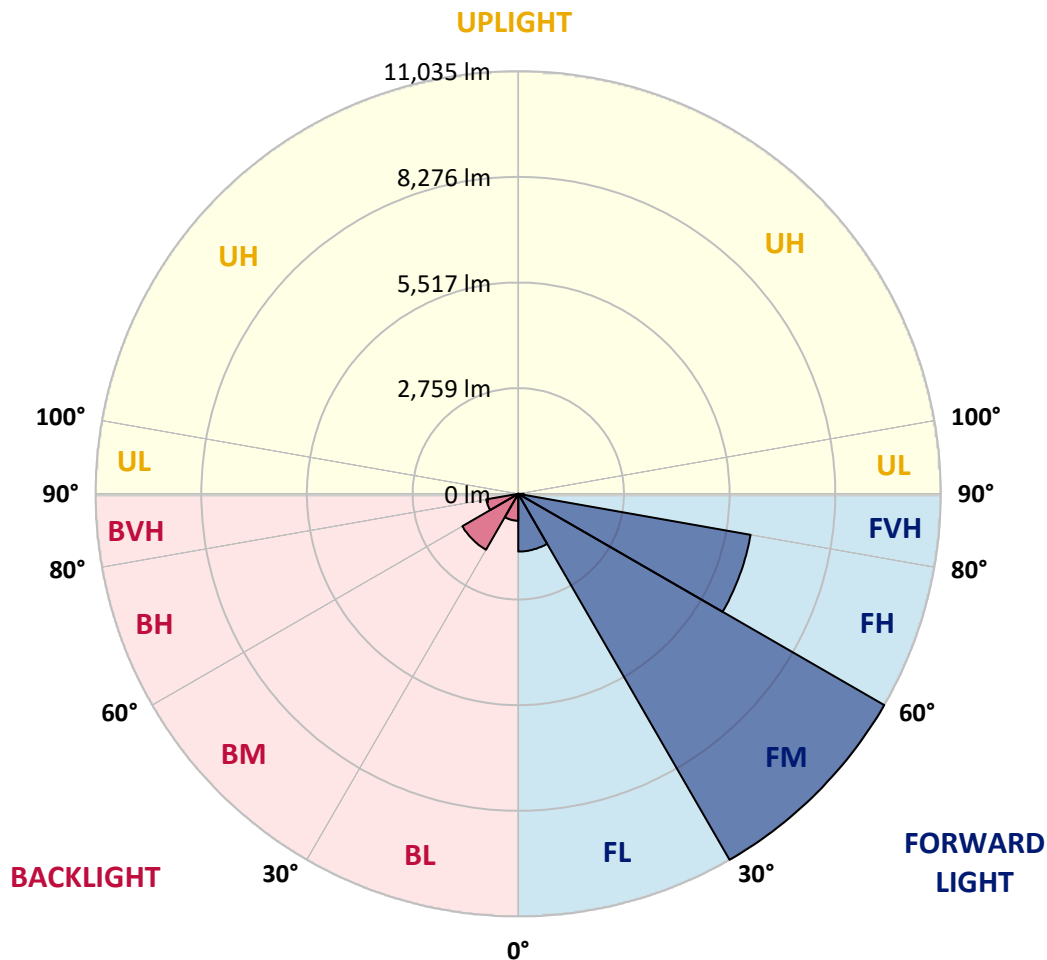
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1508.4	6.8			
FM (30°-60°)	11034.7	49.9			
FH (60°-80°)	6160.5	27.9			G3/7500
FVH (80°-90°)	145.3	0.7			G2/225
BL (0°-30°)	702.9	3.2	B2/1000		
BM (30°-60°)	1685.6	7.6	B2/2500		
BH (60°-80°)	847.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2
2.5°	2791.1	2783.4	2794.0	2789.5	2786.5	2780.4	2777.3	2774.3	2768.2	2763.7	2745.5
5°	2798.7	2794.0	2804.7	2813.8	2823.0	2832.1	2836.6	2842.7	2836.6	2824.5	2806.2
7.5°	2734.8	2731.7	2754.6	2782.0	2823.0	2857.9	2895.9	2917.3	2918.7	2914.2	2894.4
10°	2730.2	2722.6	2745.5	2778.9	2832.1	2894.4	2961.3	3006.9	3013.0	3032.8	3011.4
12.5°	2801.6	2794.0	2826.0	2862.5	2917.3	2982.5	3064.6	3128.5	3137.6	3165.0	3149.8
15°	2921.8	2911.1	2947.6	2994.7	3064.6	3139.2	3225.8	3283.6	3291.2	3324.6	3297.2
17.5°	3061.6	3051.0	3093.6	3143.7	3219.7	3321.6	3421.9	3485.7	3494.8	3516.2	3465.9
20°	3240.9	3227.3	3260.7	3306.3	3386.9	3508.6	3628.6	3719.8	3718.3	3718.3	3636.3
22.5°	3449.2	3428.0	3456.8	3493.3	3569.4	3716.9	3876.4	3984.4	3984.4	3941.8	3806.5
25°	3672.7	3651.5	3683.3	3716.9	3783.7	3951.0	4137.9	4271.7	4277.7	4204.8	3988.9
27.5°	3952.4	3925.0	3949.4	3988.9	4028.5	4198.7	4420.6	4575.7	4578.8	4466.2	4162.2
30°	4490.5	4413.0	4337.1	4294.4	4312.7	4481.5	4718.6	4890.4	4905.5	4750.6	4350.7
32.5°	5475.7	5460.5	5192.9	4843.2	4660.9	4785.5	5051.5	5258.2	5267.4	5068.2	4595.5
35°	7006.5	6988.2	6558.1	5892.2	5297.8	5192.9	5455.9	5700.6	5694.6	5469.6	4913.1
37.5°	8833.7	8816.9	8249.9	7359.1	6396.8	5808.6	5977.3	6234.3	6272.2	5977.3	5323.6
40°	10394.9	10332.6	9973.9	9114.9	7856.2	6830.1	6719.2	6889.4	6928.9	6579.3	5845.1
42.5°	11577.6	11524.4	11341.9	10805.3	9622.7	8341.1	7593.2	7658.6	7702.7	7283.1	6444.0
45°	12190.2	12178.0	12251.0	12200.9	11422.5	10195.8	8842.8	8570.7	8587.4	8063.0	7123.5
47.5°	12276.8	12270.8	12603.7	13075.0	12970.0	12287.5	10446.6	9707.8	9648.5	8943.1	7862.3
50°	11766.1	11754.0	12392.5	13275.6	14003.8	14044.9	12267.7	10989.3	10858.5	9853.7	8633.1
52.5°	10135.0	10131.9	11180.8	12650.9	14367.1	15583.3	14067.6	12397.0	12178.0	10817.5	9447.8
55°	7798.5	7854.7	9057.2	10794.7	13704.4	16323.5	15683.5	13959.7	13623.8	11787.4	10198.9
57.5°	5524.3	5606.3	6795.1	8342.7	11649.0	15885.8	16776.6	15525.5	15163.6	12754.2	10960.4
60°	2967.4	3040.4	4230.6	6077.6	8666.5	14253.1	17352.7	16884.5	16542.5	13672.4	11647.5
62.5°	1767.9	1792.3	2284.8	3923.6	5861.8	10889.0	17108.0	17919.8	17638.5	14443.1	12245.0
65°	1269.4	1273.9	1521.7	2395.8	3558.7	6615.8	15391.7	18415.4	18328.6	15023.8	12687.3
67.5°	1068.7	1065.6	1169.0	1591.6	2424.6	3313.9	11796.5	17714.6	18082.4	15391.7	12938.2
70°	916.7	921.3	1042.8	1165.9	1822.7	1875.9	5864.8	15423.6	16208.0	15489.0	12923.0
72.5°	682.5	697.7	810.3	1062.6	1375.8	1290.6	2024.9	11436.2	12854.5	14593.6	12252.5
75°	481.9	489.5	570.1	893.9	1026.1	939.4	1033.7	5911.9	7730.0	11188.4	10028.5
77.5°	370.9	384.6	431.7	624.8	1011.0	659.8	632.4	2046.1	3143.7	6758.6	6875.7
80°	200.7	225.0	311.6	451.5	709.9	466.7	313.1	814.8	1065.6	3160.4	2651.2
82.5°	103.4	115.5	217.4	325.3	404.4	407.4	155.1	339.0	439.3	975.9	363.4
85°	41.0	50.1	146.0	179.4	208.3	200.7	69.9	136.8	158.1	270.6	111.0
87.5°	9.1	15.2	53.2	41.0	39.6	42.5	16.7	31.9	30.4	31.9	19.8
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°	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2
2.5°	2743.9	2737.8	2721.1	2702.8	2681.6	2669.4	2661.8	2660.3	2649.6	2642.0	2649.6
5°	2789.5	2783.4	2751.5	2713.5	2672.5	2640.5	2610.2	2582.8	2543.2	2535.6	2532.6
7.5°	2880.8	2864.0	2812.3	2760.6	2683.1	2590.4	2477.8	2348.7	2233.2	2198.1	2181.4
10°	2993.2	2970.4	2905.1	2813.8	2642.0	2389.7	2117.5	1865.3	1664.6	1608.3	1587.0
12.5°	3120.9	3101.1	3014.5	2845.7	2470.2	2012.7	1596.1	1283.0	1088.4	1039.8	1026.1
15°	3272.9	3244.0	3124.0	2797.1	2163.2	1529.3	1096.0	910.6	840.6	831.6	822.5
17.5°	3434.1	3386.9	3221.3	2622.3	1749.7	1086.9	846.8	793.6	763.1	754.0	749.5
20°	3581.6	3520.7	3279.0	2357.8	1307.4	846.8	758.6	723.6	696.3	685.6	679.5
22.5°	3729.0	3642.3	3279.0	1997.5	980.5	750.9	696.3	664.3	632.4	618.7	611.1
25°	3882.5	3767.0	3221.3	1596.1	788.9	688.6	636.9	602.0	574.6	557.9	551.9
27.5°	4031.5	3871.8	3088.9	1216.2	702.3	633.9	582.2	548.8	523.0	510.8	510.8
30°	4172.9	3975.3	2903.5	922.7	646.1	580.7	532.1	503.2	477.3	465.1	466.7
32.5°	4364.4	4105.9	2705.9	757.1	597.5	530.5	486.5	459.1	436.2	427.1	427.1
35°	4630.4	4299.1	2535.6	743.3	556.4	489.5	445.4	419.5	396.8	389.2	389.2
37.5°	5007.4	4610.7	2446.0	834.6	523.0	453.0	411.9	384.6	363.4	357.2	355.7
40°	5472.6	5033.3	2494.6	925.8	500.1	421.1	381.6	354.2	336.0	328.3	326.9
42.5°	6024.4	5554.7	2763.7	995.7	484.9	393.7	352.7	322.3	310.2	307.1	307.1
45°	6658.3	6127.8	3175.7	1070.2	460.6	367.9	323.8	301.0	291.9	290.4	288.8
47.5°	7378.9	6757.1	3653.0	1163.0	436.2	343.6	301.0	285.8	278.2	275.1	275.1
50°	8093.4	7391.1	4144.0	1214.6	416.6	320.7	282.8	270.6	264.6	263.0	263.0
52.5°	8841.3	8043.2	4540.8	1165.9	399.9	302.5	267.5	258.4	252.4	250.8	250.8
55°	9554.2	8570.7	4609.1	989.6	366.3	284.2	250.8	246.3	238.6	238.6	237.2
57.5°	10168.4	8835.2	4125.7	726.6	332.9	256.9	234.1	229.5	223.4	221.9	220.4
60°	10732.4	8759.2	3184.8	489.5	296.4	229.5	212.8	209.8	203.7	196.1	194.5
62.5°	11050.1	8424.8	2178.4	319.2	259.9	200.7	188.5	187.0	173.3	158.1	155.1
65°	11170.1	7737.6	1359.0	232.6	217.4	171.8	162.7	159.6	139.8	123.1	121.6
67.5°	11065.3	6606.6	685.6	184.0	171.8	142.9	133.8	133.8	120.1	104.9	103.4
70°	10645.8	4952.7	288.8	147.5	132.2	109.5	109.5	115.5	101.9	85.2	83.6
72.5°	9735.1	3332.2	153.5	112.4	98.8	77.5	89.7	94.3	80.6	63.9	63.9
75°	7739.2	2032.5	106.4	83.6	62.3	54.7	68.4	71.4	54.7	42.5	41.0
77.5°	5293.2	1167.5	71.4	53.2	39.6	31.9	47.2	44.1	28.9	19.8	21.3
80°	2324.3	486.5	41.0	24.3	15.2	12.2	16.7	12.2	9.1	6.0	6.0
82.5°	272.1	114.0	15.2	9.1	6.0	3.1	1.5	0.0	0.0	0.0	0.0
85°	56.3	13.6	7.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)