

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: P885120

Luminaire Tested: **NAV-SB6B-730-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25474 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

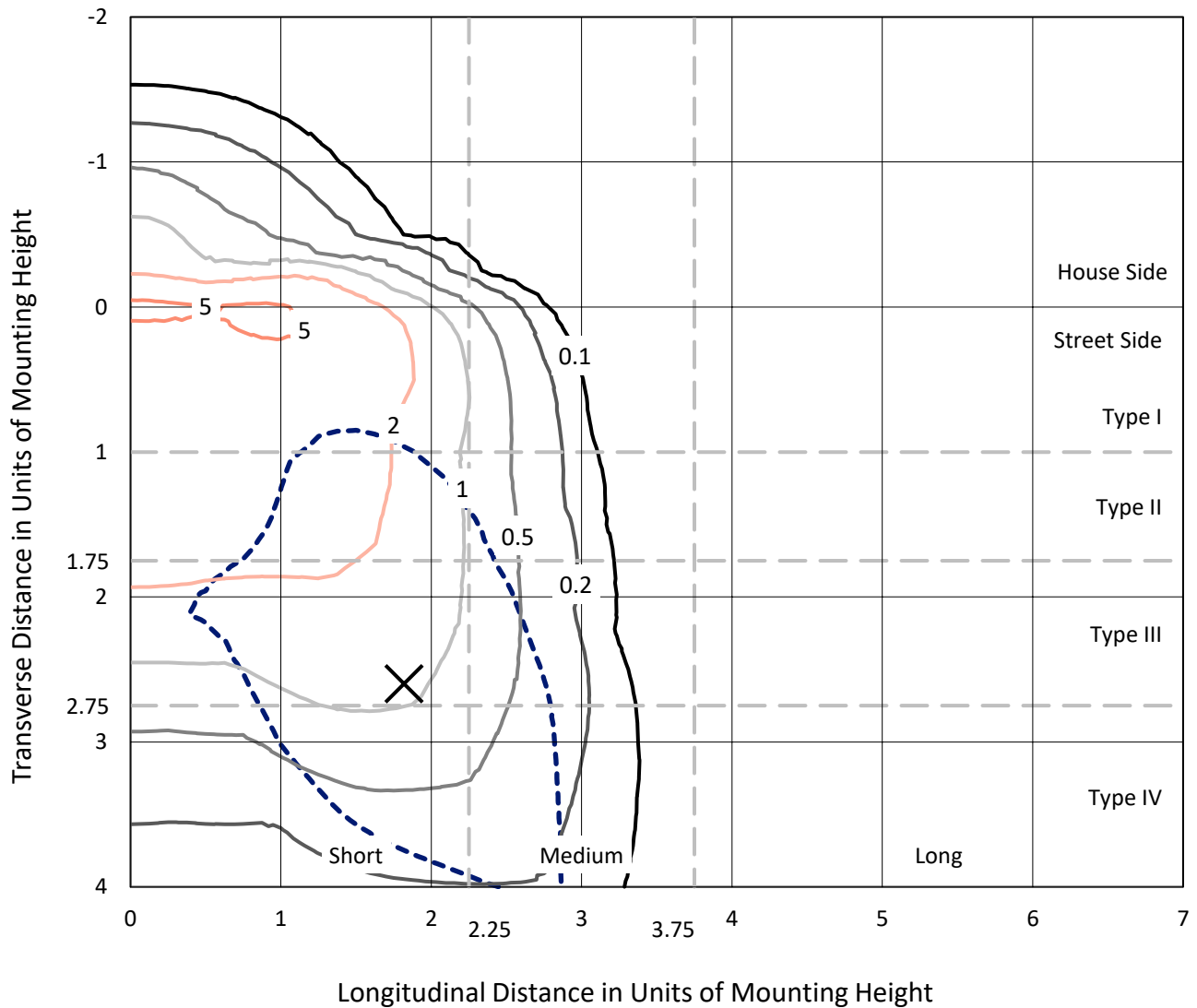
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

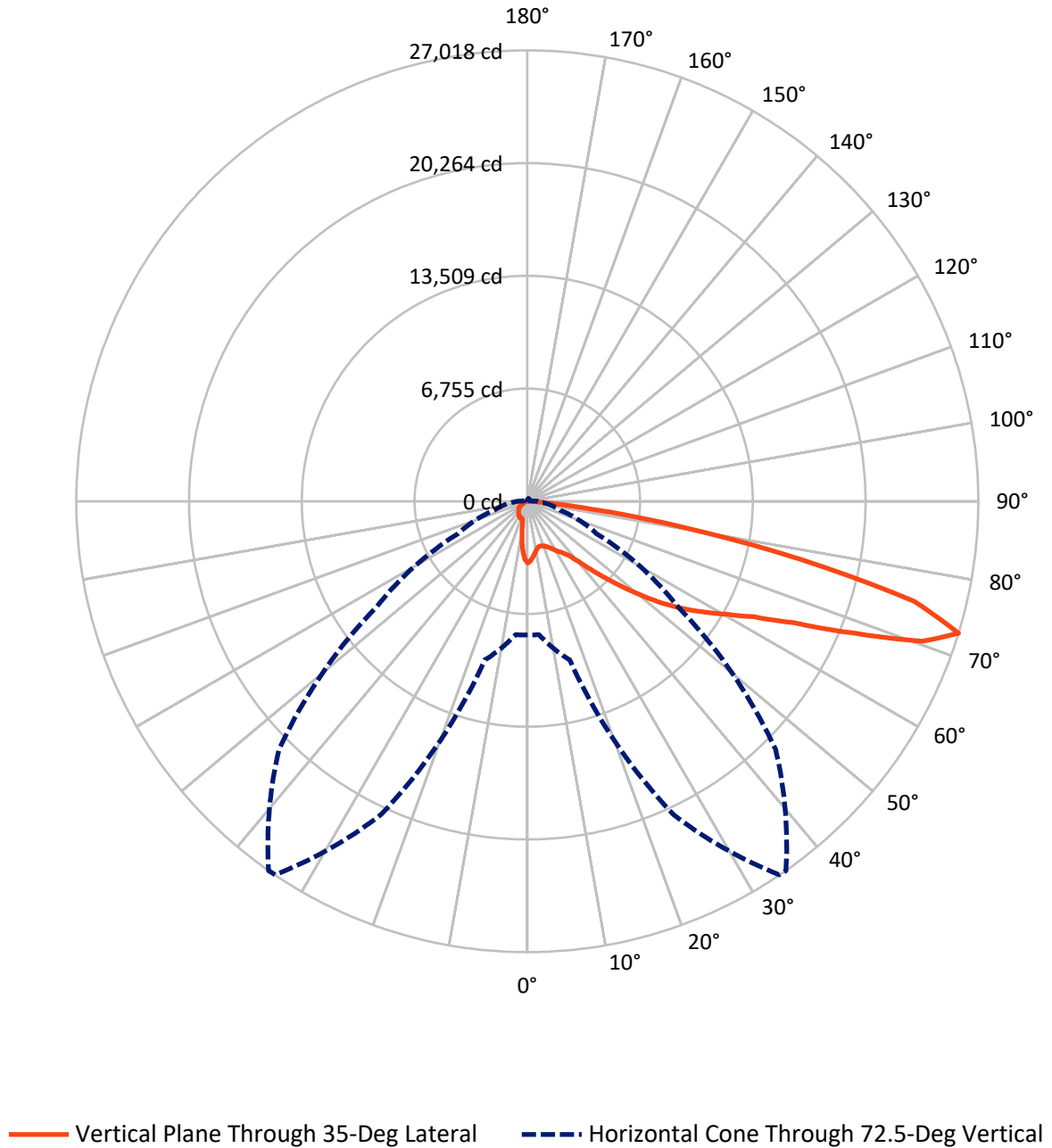
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2867.0	0.0	2867.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	22607.0	0.0	22607.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	25474.0	0.0	25474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.4	1.2
10°-20°	709.7	2.8
20°-30°	1152.9	4.5
30°-40°	1923.7	7.6
40°-50°	3639.7	14.3
50°-60°	5783.4	22.7
60°-70°	7154.5	28.1
70°-80°	4447.3	17.5
80°-90°	359.4	1.4
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°	25474.0	100.0
0°-180°	25474.0	100.0

Coefficient of Utilization

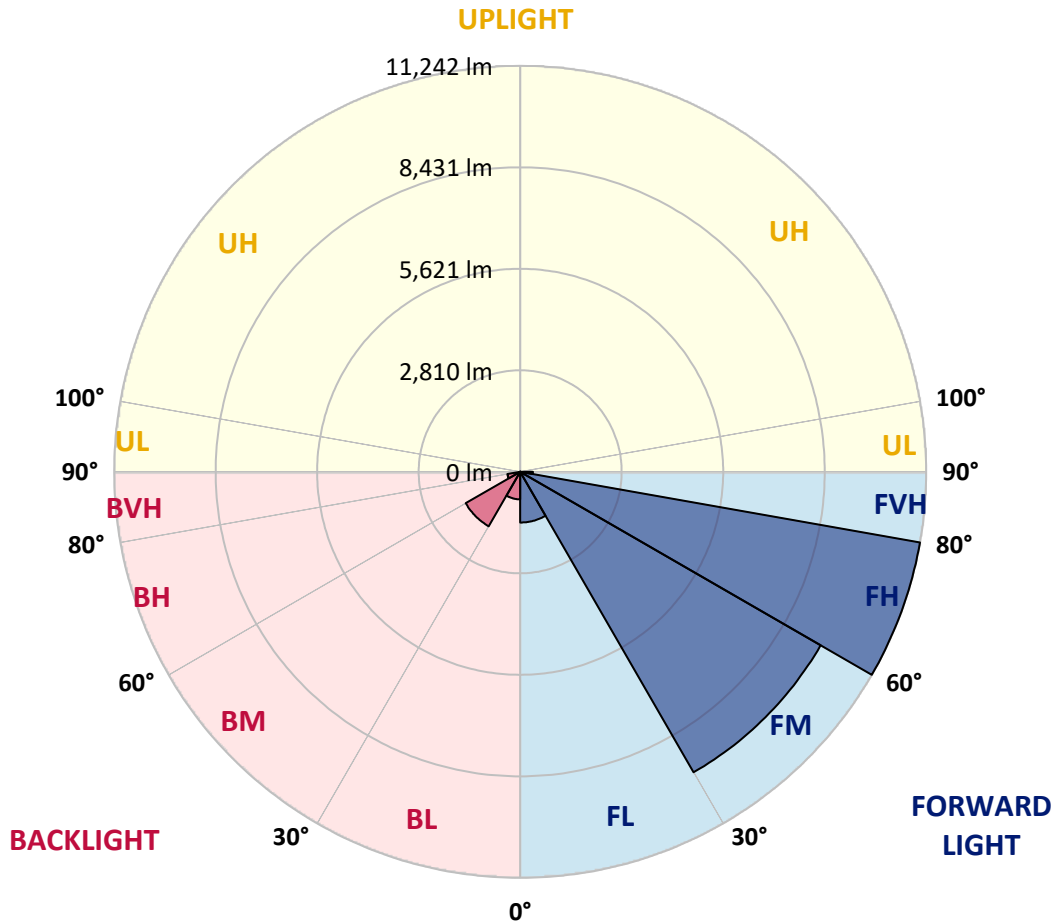


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1404.3	5.5			
FM (30°-60°)	9606.2	37.7			
FH (60°-80°)	11242.0	44.1			G4/12000
FVH (80°-90°)	354.5	1.4			G3/500
BL (0°-30°)	761.8	3.0	B2/1000		
BM (30°-60°)	1740.5	6.8	B2/2500		
BH (60°-80°)	359.8	1.4	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0
2.5°	3527.8	3557.6	3563.2	3572.6	3572.6	3583.8	3602.4	3628.6	3671.5	3693.9	3708.8
5°	3251.5	3273.9	3301.9	3324.3	3367.3	3372.9	3445.7	3516.6	3615.5	3690.2	3742.4
7.5°	2973.4	2999.5	3036.9	3091.0	3147.0	3163.8	3273.9	3393.4	3550.2	3690.2	3777.9
10°	2777.4	2779.3	2812.9	2867.0	2956.6	2977.1	3111.5	3281.4	3477.4	3667.8	3811.5
12.5°	2667.3	2680.4	2695.3	2736.4	2822.2	2835.3	2979.0	3178.7	3404.6	3654.7	3850.7
15°	2667.3	2676.6	2686.0	2706.5	2775.6	2786.8	2913.7	3113.4	3367.3	3660.3	3914.2
17.5°	2695.3	2710.2	2702.8	2727.0	2799.8	2807.3	2919.3	3094.7	3365.4	3695.8	4011.2
20°	2762.5	2773.7	2758.8	2773.7	2846.5	2861.4	2977.1	3130.2	3397.1	3757.4	4132.5
22.5°	2868.9	2874.5	2839.0	2850.2	2924.9	2943.5	3077.9	3231.0	3473.7	3856.3	4294.9
25°	3003.3	3014.5	2960.3	2973.4	3044.3	3066.7	3221.7	3382.2	3595.0	3992.6	4502.1
27.5°	3158.2	3163.8	3117.1	3115.3	3206.7	3238.5	3395.3	3568.8	3757.4	4164.3	4763.4
30°	3335.5	3352.3	3307.5	3300.1	3415.8	3441.9	3596.8	3798.4	3996.3	4421.9	5134.9
32.5°	3475.5	3488.6	3462.5	3481.1	3598.7	3619.2	3841.4	4123.2	4371.5	4787.7	5640.7
35°	3677.1	3684.6	3624.8	3658.4	3792.8	3845.1	4175.5	4578.6	4843.7	5246.9	6301.5
37.5°	4406.9	4406.9	4153.1	3987.0	4115.7	4162.4	4632.8	5151.7	5426.1	5862.8	7134.0
40°	5416.7	5399.9	5028.5	4688.8	4672.0	4763.4	5284.2	5874.0	6178.3	6602.0	8071.0
42.5°	6493.7	6467.6	5961.8	5625.8	5569.8	5601.5	6036.4	6764.4	7074.2	7503.5	9078.9
45°	7449.4	7441.9	6979.0	6527.3	6426.5	6527.3	6975.3	7805.9	8028.0	8479.7	10085.0
47.5°	8250.2	8250.2	7912.3	7617.4	7565.1	7624.9	8246.4	8961.3	8940.8	9519.4	11064.9
50°	9172.2	9164.8	8843.7	8716.8	8770.9	8854.9	9709.8	10178.3	9885.3	10540.4	11940.3
52.5°	9818.1	9862.9	9752.7	9732.2	10008.4	10154.0	11195.6	11369.2	10730.8	11509.1	12595.5
55°	10329.5	10381.8	10508.7	10652.4	11184.4	11374.8	12634.7	12498.4	11438.2	12349.1	12972.5
57.5°	11053.7	10979.0	11175.0	11458.8	12319.2	12548.8	14029.0	13564.2	12007.5	13030.4	13013.6
60°	11932.9	11944.1	11977.7	12336.0	13452.2	13747.1	15402.8	14572.2	12373.4	13448.5	12558.2
62.5°	12989.3	13006.1	13075.2	13625.8	14973.5	15251.6	16866.1	15397.2	12541.4	13330.9	11382.2
65°	12916.5	12987.5	13758.3	15641.7	17286.1	17560.5	18574.0	15975.8	12287.5	12255.8	9267.4
67.5°	11766.7	11882.5	13172.2	18049.5	20772.8	21079.0	20638.4	16089.7	11191.8	9530.6	6045.8
70°	10258.6	10299.6	11850.7	20214.7	24810.2	25120.0	22486.3	14837.2	8492.8	5315.9	2708.4
72.5°	8011.2	8020.6	9840.5	20716.8	27001.5	27018.3	21036.0	11014.5	4567.4	2042.0	940.7
75°	5722.8	5666.8	6590.8	16800.8	23755.6	23946.0	15770.5	5166.6	1745.2	965.0	468.5
77.5°	3068.6	3130.2	3729.4	9963.6	16410.7	16735.5	8604.8	1489.5	888.5	657.0	309.8
80°	948.2	1000.5	1528.7	4561.8	9295.4	9491.4	3189.9	662.6	619.7	468.5	203.5
82.5°	298.6	309.8	713.0	1916.9	3858.2	3947.8	923.9	375.2	423.7	309.8	119.5
85°	85.9	87.7	317.3	714.9	953.8	972.5	259.5	145.6	242.7	192.3	61.6
87.5°	9.3	29.9	119.5	119.5	84.0	82.1	28.0	31.7	69.1	24.3	11.2
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°	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0	3692.0
2.5°	3699.5	3701.4	3677.1	3636.0	3591.2	3553.9	3507.2	3469.9	3443.8	3436.3	3449.4
5°	3725.6	3712.6	3643.5	3518.4	3369.1	3240.3	3096.6	2982.7	2908.1	2876.4	2887.6
7.5°	3764.8	3727.5	3576.3	3329.9	3044.3	2790.5	2532.9	2333.2	2206.3	2142.8	2152.1
10°	3798.4	3723.8	3464.3	3057.4	2620.6	2236.1	1888.9	1648.2	1513.8	1450.3	1452.2
12.5°	3830.2	3721.9	3318.7	2734.5	2142.8	1672.4	1349.5	1230.1	1192.7	1179.7	1175.9
15°	3889.9	3727.5	3135.8	2364.9	1666.8	1263.7	1146.1	1144.2	1151.7	1147.9	1146.1
17.5°	3972.0	3733.1	2928.6	1972.9	1286.1	1114.3	1108.7	1125.5	1136.7	1131.1	1129.3
20°	4078.4	3755.5	2708.4	1584.7	1105.0	1077.0	1090.1	1105.0	1114.3	1105.0	1103.1
22.5°	4227.7	3794.7	2467.6	1273.0	1047.1	1054.6	1065.8	1082.6	1091.9	1078.9	1077.0
25°	4410.7	3856.3	2230.5	1106.9	1019.1	1028.5	1045.3	1063.9	1075.1	1062.1	1060.2
27.5°	4647.7	3955.2	2012.1	1069.5	991.1	996.7	1021.0	1049.0	1063.9	1047.1	1047.1
30°	4991.2	4117.6	1823.6	1086.3	974.3	961.3	994.9	1034.1	1050.9	1035.9	1034.1
32.5°	5446.6	4347.2	1707.9	1112.5	966.9	920.2	951.9	1002.3	1030.3	1021.0	1021.0
35°	6043.9	4696.2	1663.1	1142.3	961.3	877.3	899.7	953.8	1002.3	1011.7	1011.7
37.5°	6768.1	5181.5	1676.2	1155.4	944.5	841.8	853.0	899.7	963.1	993.0	1000.5
40°	7591.3	5747.1	1750.8	1142.3	925.8	811.9	813.8	849.3	905.3	950.1	965.0
42.5°	8440.5	6407.9	1888.9	1093.8	909.0	785.8	780.2	804.5	841.8	873.5	886.6
45°	9248.8	7087.3	2025.2	1026.6	888.5	759.7	746.6	756.0	763.4	776.5	784.0
47.5°	9954.3	7565.1	1986.0	965.0	860.5	729.8	707.4	703.7	681.3	679.4	677.6
50°	10441.5	7669.7	1763.9	903.4	819.4	696.2	660.8	638.4	599.2	580.5	582.4
52.5°	10596.4	7257.1	1441.0	841.8	752.2	651.4	601.0	565.6	517.0	500.2	498.4
55°	10391.1	6448.9	1151.7	767.2	658.9	591.7	535.7	489.0	449.8	429.3	429.3
57.5°	9889.0	5420.5	910.9	679.4	560.0	524.5	468.5	421.8	388.2	367.7	364.0
60°	9056.5	4304.3	720.5	574.9	477.8	451.7	393.8	364.0	334.1	309.8	304.2
62.5°	7792.8	3072.3	565.6	455.4	399.4	369.6	336.0	313.6	278.1	244.5	238.9
65°	6081.2	1879.6	436.8	334.1	321.0	306.1	285.6	265.1	222.1	188.5	182.9
67.5°	3835.8	890.3	311.7	252.0	253.9	246.4	237.1	220.3	188.5	158.7	154.9
70°	1689.2	431.2	205.3	192.3	188.5	188.5	196.0	190.4	160.5	132.5	126.9
72.5°	574.9	231.5	153.1	145.6	136.3	134.4	164.3	158.7	128.8	102.7	97.1
75°	300.5	154.9	112.0	104.5	82.1	98.9	130.7	123.2	91.5	67.2	61.6
77.5°	196.0	110.1	76.5	67.2	46.7	65.3	97.1	85.9	54.1	33.6	29.9
80°	123.2	72.8	44.8	31.7	22.4	35.5	52.3	37.3	20.5	7.5	5.6
82.5°	65.3	37.3	16.8	11.2	9.3	11.2	13.1	9.3	3.7	0.0	0.0
85°	26.1	13.1	5.6	3.7	1.9	0.0	3.7	1.9	0.0	0.0	0.0
87.5°	9.3	1.9	0.0	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)