

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: P885109

Luminaire Tested: **NAV-SB6B-727-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885109  
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-SB6B-727-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

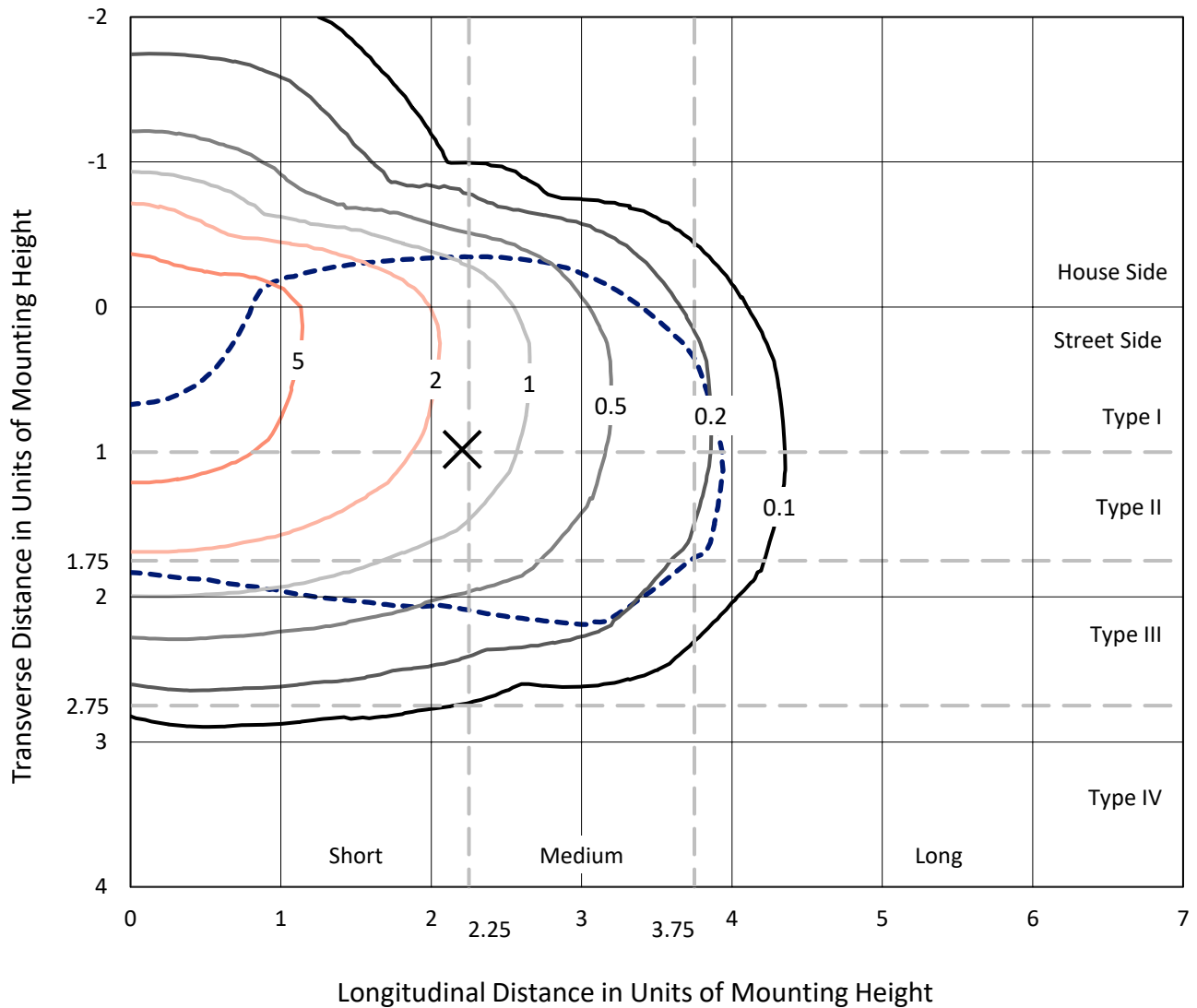
Lumens per Lamp: N/A  
Luminaire Lumens: 30995 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 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

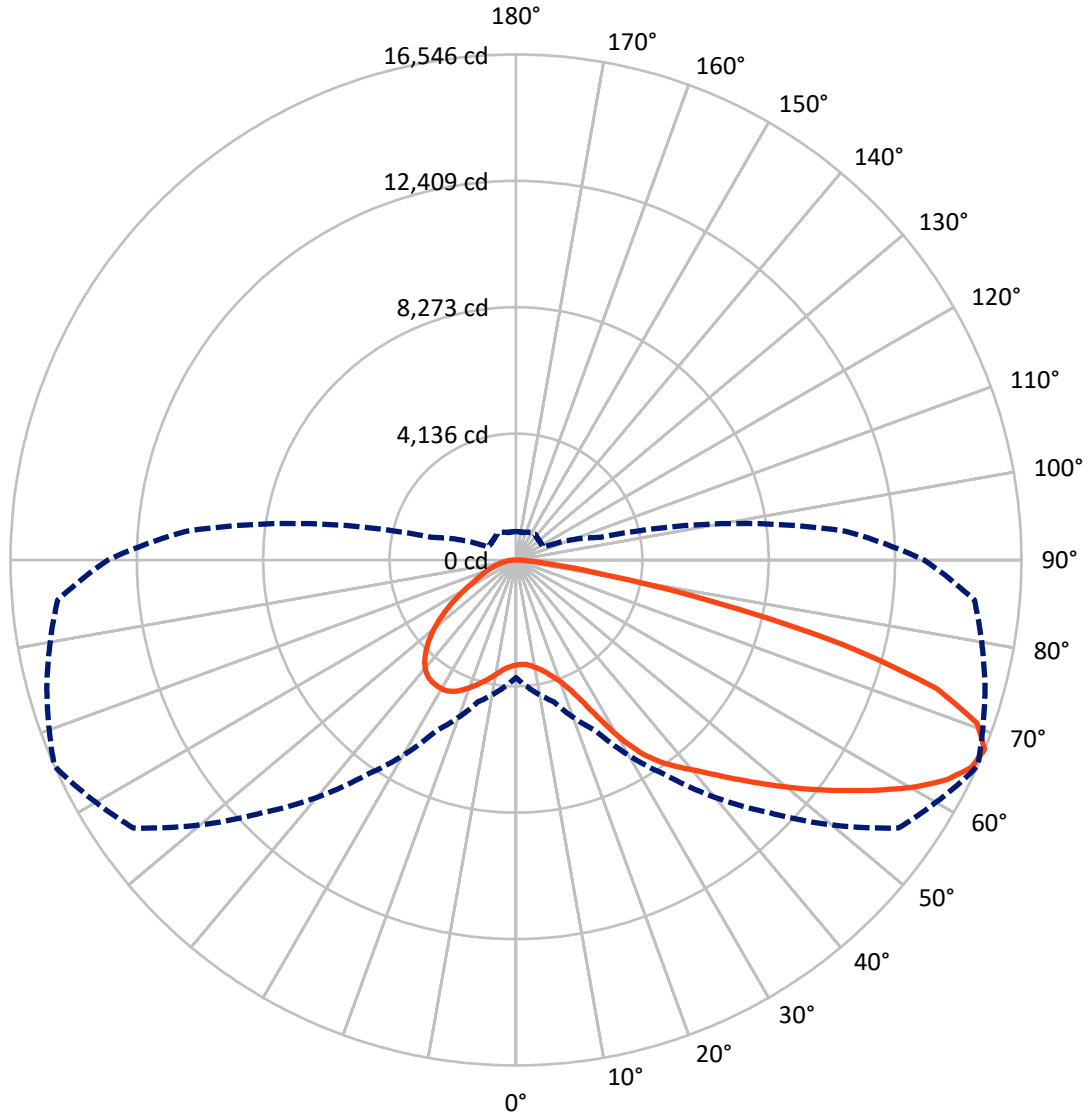
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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
<b>House Side</b>	Lumens	7706.8	0.0	7706.8
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	23288.2	0.0	23288.2
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	30995.0	0.0	30995.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.8	1.1
10°-20°	1126.1	3.6
20°-30°	2170.5	7.0
30°-40°	3805.6	12.3
40°-50°	5657.7	18.3
50°-60°	7171.7	23.1
60°-70°	7017.4	22.6
70°-80°	3347.4	10.8
80°-90°	357.7	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°	30995.0	100.0
0°-180°	30995.0	100.0

**Coefficient of Utilization**



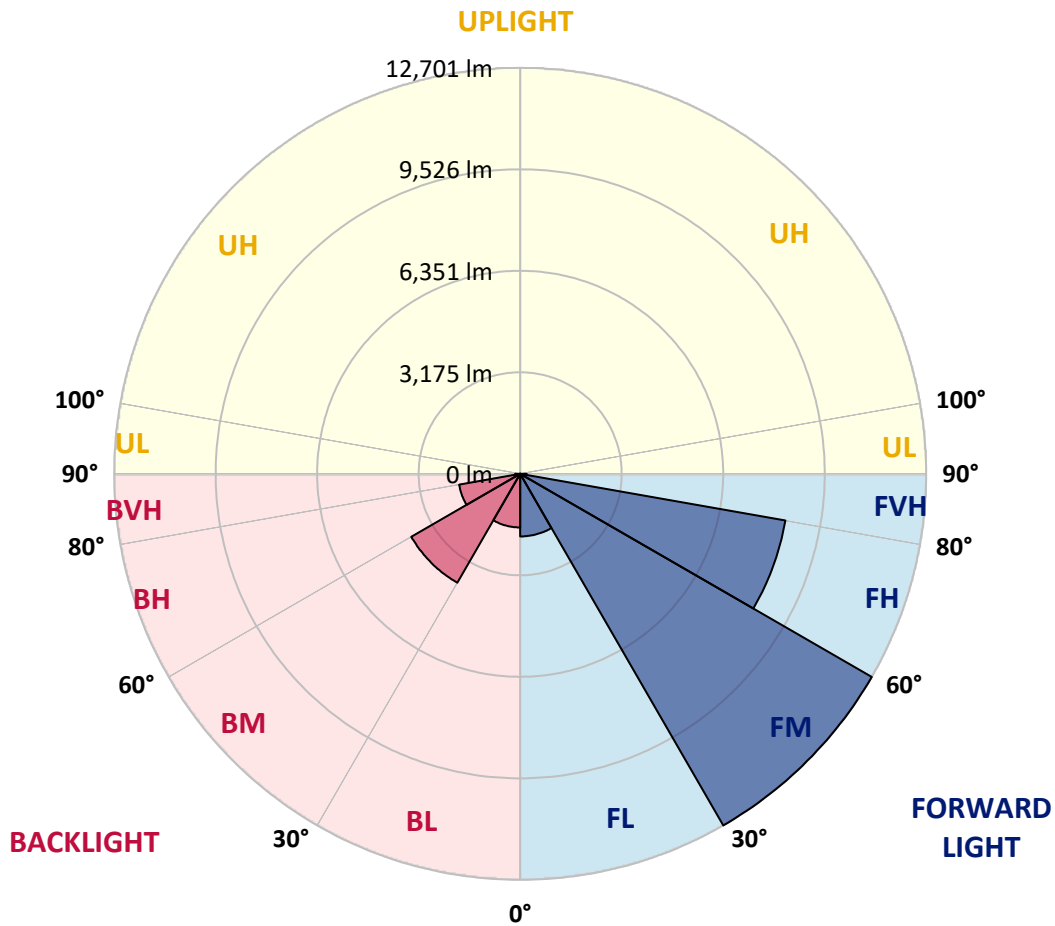
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1958.6	6.3			
FM (30°-60°)	12701.5	41.0			
FH (60°-80°)	8425.3	27.2			G4/12000
FVH (80°-90°)	202.8	0.7			G2/225
BL (0°-30°)	1678.8	5.4	B3/2500		
BM (30°-60°)	3933.6	12.7	B3/5000		
BH (60°-80°)	1939.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	154.9	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-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8
2.5°	3401.9	3421.5	3416.6	3408.4	3406.8	3410.1	3415.0	3419.8	3418.2	3426.4	3439.4
5°	3392.2	3411.7	3410.1	3410.1	3416.6	3429.6	3437.8	3445.9	3437.8	3447.5	3465.4
7.5°	3398.7	3413.3	3419.8	3426.4	3442.6	3467.1	3486.6	3504.5	3494.8	3506.2	3529.0
10°	3481.7	3493.1	3499.6	3499.6	3511.0	3538.7	3558.3	3590.8	3582.7	3600.6	3629.9
12.5°	3633.2	3644.6	3644.6	3638.1	3646.2	3664.1	3670.6	3706.5	3691.8	3721.1	3750.4
15°	3818.8	3841.6	3823.7	3812.3	3815.6	3833.5	3831.9	3859.5	3844.9	3869.3	3895.4
17.5°	4024.0	4053.3	4024.0	4022.4	4015.9	4035.4	4037.0	4061.5	4035.4	4053.3	4071.2
20°	4266.7	4307.4	4282.9	4291.1	4276.4	4284.6	4292.7	4328.5	4287.8	4300.9	4296.0
22.5°	4608.6	4657.5	4631.4	4662.4	4652.6	4646.1	4644.5	4708.0	4644.5	4649.4	4602.1
25°	5107.0	5165.6	5120.0	5162.3	5162.3	5183.5	5207.9	5289.4	5183.5	5152.6	5030.4
27.5°	5843.0	5901.7	5812.1	5838.2	5830.0	5882.1	5856.1	6058.0	5944.0	5893.5	5647.6
30°	6728.9	6833.2	6663.8	6657.3	6649.1	6732.2	6769.7	6903.2	6787.6	6737.1	6440.7
32.5°	7686.5	7795.6	7593.7	7535.1	7504.1	7554.6	7523.7	7631.1	7551.3	7473.2	7106.8
35°	8699.4	8806.9	8614.7	8500.7	8377.0	8271.1	8160.4	8188.1	8113.2	7994.3	7614.8
37.5°	9657.0	9854.0	9650.5	9528.3	9300.3	9093.5	8784.1	8655.5	8585.4	8476.3	8093.6
40°	10632.5	10744.8	10590.1	10485.9	10238.4	9914.3	9419.2	9147.3	9052.8	8947.0	8622.9
42.5°	11350.6	11458.1	11375.0	11303.4	11109.6	10733.4	10093.4	9753.1	9616.3	9497.4	9222.2
45°	11920.6	12000.4	11948.3	11974.3	11891.3	11526.5	10792.0	10402.8	10261.2	10116.2	9899.6
47.5°	12150.2	12234.9	12317.9	12472.7	12614.3	12345.6	11542.8	11106.3	10956.5	10808.3	10595.0
50°	12124.2	12210.5	12451.5	12780.4	13220.1	13130.6	12334.2	11855.5	11717.0	11547.7	11350.6
52.5°	11915.7	12013.4	12322.8	12870.0	13570.3	13718.5	13140.3	12629.0	12498.7	12296.8	12099.7
55°	11368.5	11427.2	11891.3	12666.4	13653.3	14128.8	13930.2	13453.0	13322.7	13041.0	12826.0
57.5°	10354.0	10438.7	11114.5	12117.6	13444.9	14407.3	14623.9	14319.4	14194.0	13788.5	13563.7
60°	9030.0	9165.2	9938.7	11195.9	12914.0	14405.7	15254.1	15171.1	15066.8	14524.6	14290.1
62.5°	7531.8	7688.1	8432.4	9893.1	11985.7	13996.9	15648.2	15884.4	15830.6	15203.6	14904.0
65°	5784.4	5891.9	6632.9	8207.6	10541.3	13119.2	15693.8	16371.3	16381.0	15719.9	15224.8
67.5°	3851.4	4160.8	4804.1	6159.0	8606.6	11684.5	15293.2	16451.1	16545.5	15897.4	15063.6
70°	1879.3	2286.4	2916.6	4002.8	6159.0	9484.4	14246.1	15796.4	16006.5	15379.5	14102.8
72.5°	780.0	912.0	1255.6	1975.4	3535.5	6400.0	12142.1	14021.4	14410.6	13627.3	11857.1
75°	526.0	570.0	718.2	1012.9	1610.6	3156.0	8756.4	10454.9	11081.9	10292.1	8412.8
77.5°	405.5	433.2	522.7	708.4	957.6	1193.7	4686.8	6300.7	6624.7	6132.9	4377.4
80°	319.2	340.4	390.8	516.2	679.1	638.4	1597.6	2854.8	3042.0	2551.9	1407.0
82.5°	276.8	285.0	280.1	350.1	451.1	372.9	524.4	1053.6	1162.7	843.6	459.2
85°	200.3	223.1	232.9	216.6	239.4	188.9	215.0	372.9	410.4	366.4	258.9
87.5°	81.4	120.5	148.2	140.1	87.9	53.7	66.8	109.1	125.4	136.8	84.7
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°	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8	3437.8
2.5°	3441.0	3452.4	3460.6	3470.3	3476.8	3486.6	3506.2	3517.6	3519.2	3527.3	3525.7
5°	3472.0	3488.2	3506.2	3532.2	3561.5	3585.9	3623.4	3649.5	3659.2	3667.4	3665.7
7.5°	3538.7	3561.5	3594.1	3639.7	3682.0	3714.6	3760.2	3791.1	3822.1	3833.5	3835.1
10°	3638.1	3670.6	3717.9	3779.7	3825.3	3867.7	3914.9	3941.0	3971.9	3984.9	3991.4
12.5°	3761.8	3796.0	3857.9	3944.2	3986.6	4015.9	4032.2	4025.6	4032.2	4043.6	4046.8
15°	3903.5	3941.0	4011.0	4103.8	4133.1	4107.1	4071.2	4038.7	4033.8	4037.0	4048.4
17.5°	4071.2	4098.9	4180.3	4258.5	4237.3	4129.9	4051.7	3999.6	3973.5	3965.4	3976.8
20°	4305.7	4305.7	4372.5	4421.4	4279.7	4097.3	3975.2	3890.5	3836.7	3813.9	3809.1
22.5°	4590.7	4564.7	4607.0	4572.8	4271.5	4006.1	3836.7	3690.2	3608.7	3576.2	3571.3
25°	4952.3	4921.3	4909.9	4698.2	4212.9	3861.2	3585.9	3408.4	3336.8	3318.9	3322.1
27.5°	5497.8	5419.6	5271.4	4766.6	4105.4	3633.2	3292.8	3128.3	3087.6	3089.3	3094.1
30°	6224.1	6067.8	5704.6	4778.0	3929.6	3310.7	2993.2	2875.9	2856.4	2864.5	2892.2
32.5°	6896.7	6748.5	6147.6	4725.9	3659.2	2994.8	2724.5	2646.3	2617.0	2626.8	2639.8
35°	7424.3	7383.6	6558.0	4652.6	3327.0	2698.4	2483.5	2416.7	2359.7	2346.7	2356.4
37.5°	7922.6	7906.3	6865.7	4550.0	2998.1	2488.3	2289.7	2201.7	2118.7	2073.1	2074.7
40°	8469.8	8453.5	7067.7	4392.1	2706.6	2306.0	2115.4	1999.8	1897.2	1814.1	1822.3
42.5°	9085.4	8989.3	7163.8	4165.7	2459.0	2151.2	1973.7	1817.4	1682.2	1605.7	1610.6
45°	9757.9	9541.4	7162.1	3877.4	2250.6	2009.6	1822.3	1600.8	1475.4	1403.8	1400.5
47.5°	10471.2	10069.0	7074.2	3558.3	2048.6	1853.2	1587.8	1418.4	1335.4	1291.4	1281.6
50°	11207.3	10562.4	6924.4	3191.9	1841.8	1675.7	1441.2	1325.6	1262.1	1221.4	1206.7
52.5°	11899.4	11010.3	6743.6	2776.6	1631.8	1503.1	1376.1	1286.5	1219.7	1174.1	1154.6
55°	12542.7	11396.2	6487.9	2351.5	1460.8	1387.5	1345.1	1270.2	1193.7	1139.9	1118.8
57.5°	13114.3	11647.0	6046.6	1952.6	1338.6	1307.7	1312.6	1242.5	1154.6	1109.0	1079.7
60°	13589.8	11831.0	5393.6	1582.9	1239.3	1229.5	1262.1	1190.4	1087.8	1035.7	1012.9
62.5°	13874.8	11827.8	4592.4	1296.3	1154.6	1157.9	1195.3	1125.3	1021.1	972.2	957.6
65°	13850.4	11537.9	3713.0	1109.0	1073.2	1076.4	1125.3	1053.6	965.7	936.4	934.8
67.5°	13360.2	10831.1	2848.2	986.9	983.6	998.3	1055.3	1004.8	931.5	928.2	933.1
70°	12033.0	9363.9	2051.9	889.2	890.8	912.0	986.9	973.8	913.6	920.1	918.5
72.5°	9648.8	7139.3	1377.7	786.6	788.2	822.4	921.7	949.4	895.7	982.0	995.0
75°	6426.0	4452.3	885.9	677.5	679.1	723.1	864.7	902.2	846.8	978.7	986.9
77.5°	3087.6	2001.4	641.6	570.0	570.0	610.7	747.5	807.7	721.4	760.5	697.0
80°	1066.7	752.4	504.8	459.2	449.5	477.1	630.2	700.3	622.1	573.2	537.4
82.5°	420.2	390.8	405.5	356.6	324.1	342.0	490.2	578.1	457.6	413.6	412.0
85°	241.0	254.0	286.6	236.1	187.3	210.1	359.9	415.3	345.2	304.5	311.0
87.5°	65.1	89.6	131.9	122.1	84.7	89.6	171.0	229.6	198.7	153.1	158.0
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)