

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: P885169

Luminaire Tested: **NAV-SB6B-827-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885169
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-827-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 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: 27789 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

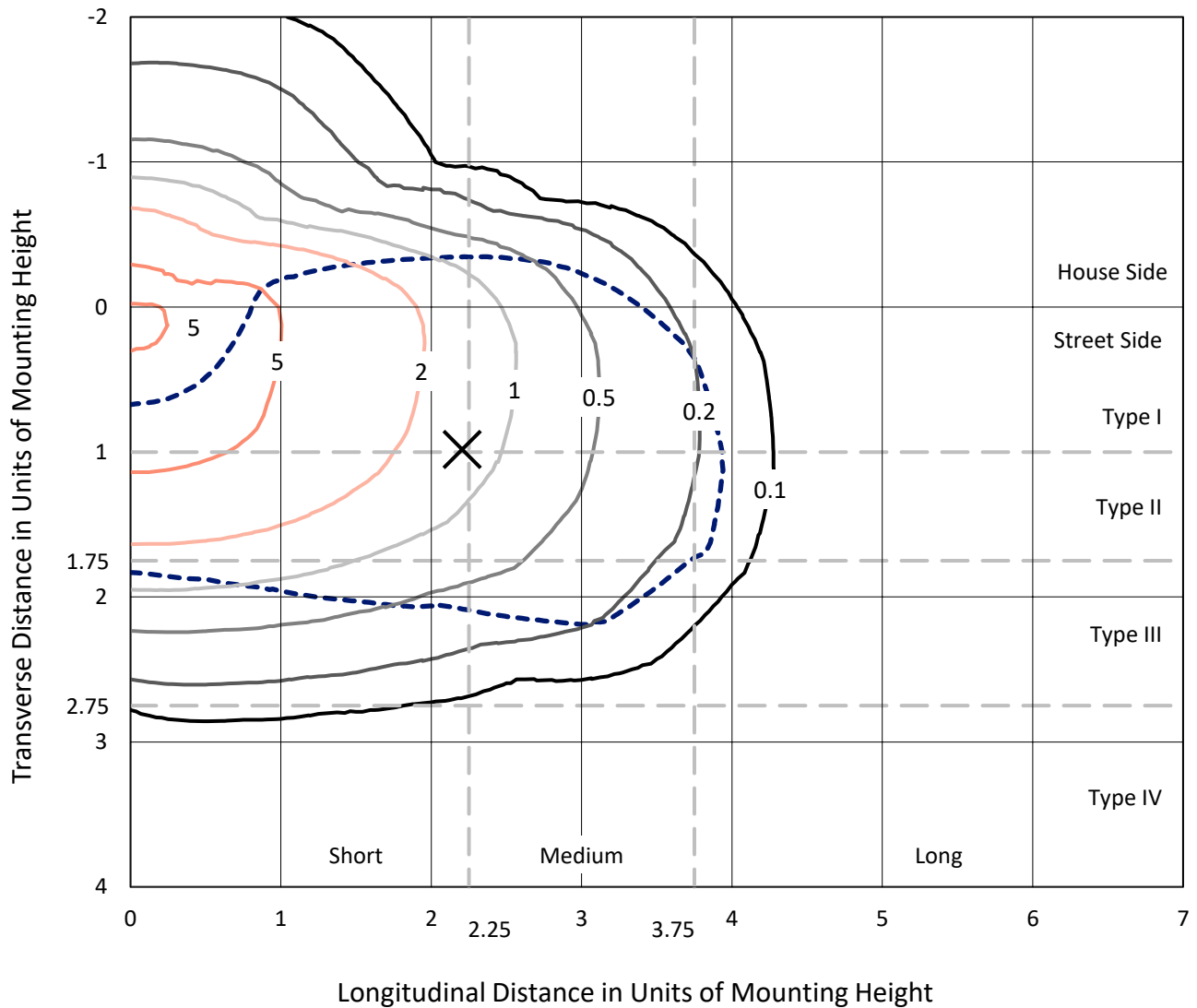
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

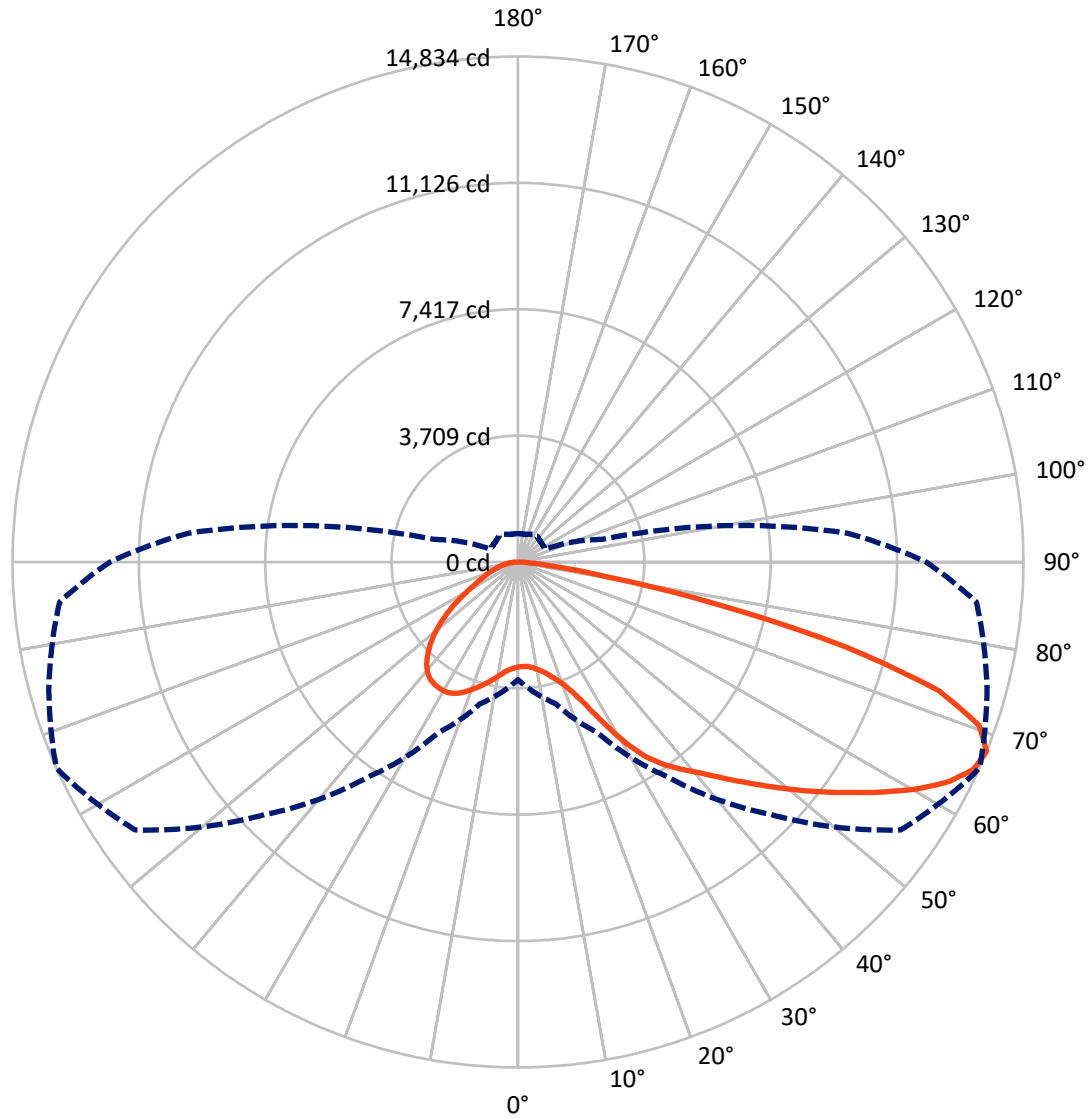
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	6909.7	0.0	6909.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	20879.3	0.0	20879.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	27789.0	0.0	27789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.6	1.1
10°-20°	1009.6	3.6
20°-30°	1946.0	7.0
30°-40°	3412.0	12.3
40°-50°	5072.5	18.3
50°-60°	6429.9	23.1
60°-70°	6291.5	22.6
70°-80°	3001.1	10.8
80°-90°	320.7	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°	27789.0	100.0
0°-180°	27789.0	100.0

Coefficient of Utilization



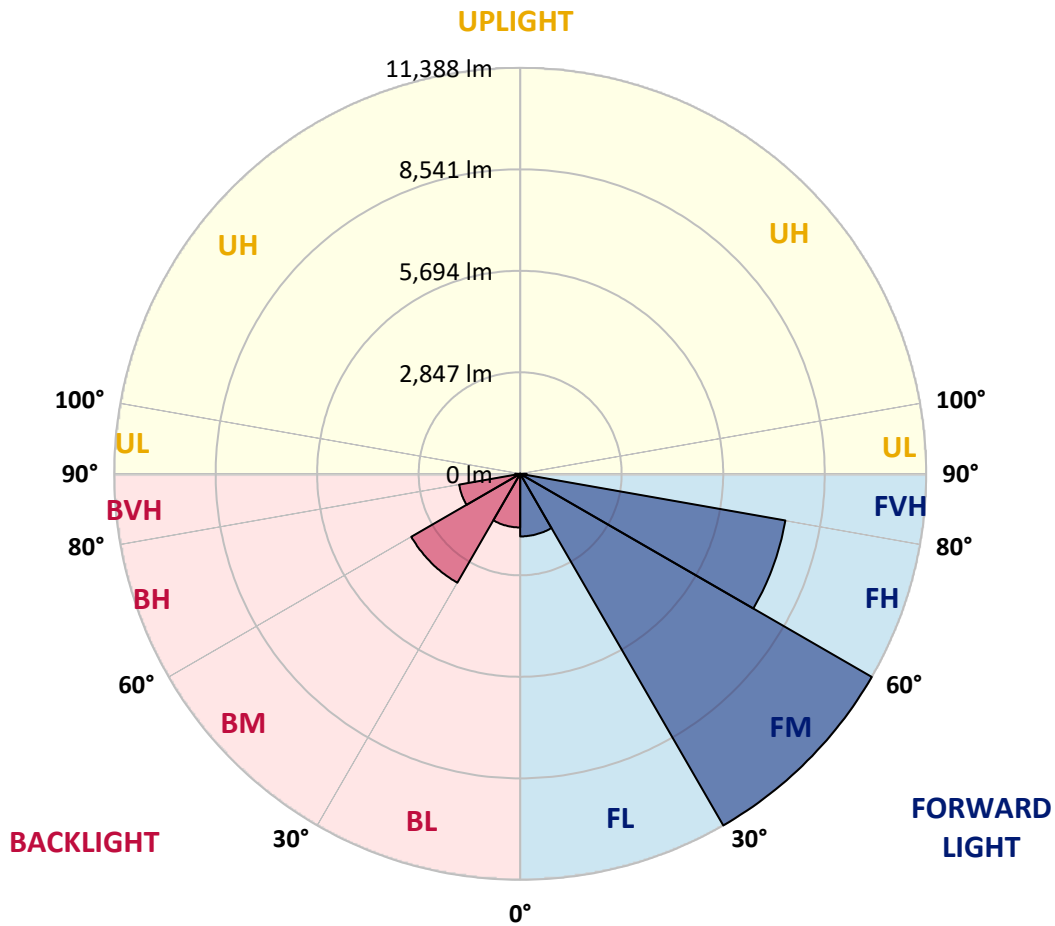
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1756.0	6.3			
FM (30°-60°)	11387.7	41.0			
FH (60°-80°)	7553.8	27.2			G4/12000
FVH (80°-90°)	181.8	0.7			G2/225
BL (0°-30°)	1505.2	5.4	B3/2500		
BM (30°-60°)	3526.8	12.7	B3/5000		
BH (60°-80°)	1738.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	138.9	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°	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2
2.5°	3050.0	3067.6	3063.2	3055.9	3054.4	3057.3	3061.7	3066.1	3064.6	3071.9	3083.6
5°	3041.3	3058.8	3057.3	3057.3	3063.2	3074.9	3082.2	3089.5	3082.2	3090.9	3107.0
7.5°	3047.1	3060.3	3066.1	3071.9	3086.5	3108.4	3126.0	3142.0	3133.3	3143.5	3163.9
10°	3121.6	3131.8	3137.6	3137.6	3147.9	3172.7	3190.2	3219.4	3212.1	3228.2	3254.5
12.5°	3257.4	3267.6	3267.6	3261.8	3269.1	3285.1	3291.0	3323.1	3309.9	3336.2	3362.5
15°	3423.8	3444.3	3428.2	3418.0	3420.9	3437.0	3435.5	3460.3	3447.2	3469.1	3492.4
17.5°	3607.8	3634.1	3607.8	3606.3	3600.5	3618.0	3619.5	3641.4	3618.0	3634.1	3650.1
20°	3825.3	3861.8	3839.9	3847.2	3834.1	3841.4	3848.7	3880.8	3844.3	3856.0	3851.6
22.5°	4131.9	4175.7	4152.4	4180.1	4171.4	4165.5	4164.1	4221.0	4164.1	4168.4	4126.1
25°	4578.7	4631.3	4590.4	4628.4	4628.4	4647.3	4669.2	4742.2	4647.3	4619.6	4510.1
27.5°	5238.7	5291.2	5210.9	5234.3	5227.0	5273.7	5250.3	5431.4	5329.2	5283.9	5063.5
30°	6032.9	6126.4	5974.5	5968.7	5961.4	6035.9	6069.4	6189.2	6085.5	6040.2	5774.5
32.5°	6891.4	6989.3	6808.2	6755.7	6727.9	6773.2	6745.4	6841.8	6770.3	6700.2	6371.7
35°	7799.6	7896.0	7723.7	7621.5	7510.5	7415.6	7316.3	7341.1	7274.0	7167.4	6827.2
37.5°	8658.1	8834.8	8652.3	8542.8	8338.4	8152.9	7875.5	7760.2	7697.4	7599.6	7256.5
40°	9532.7	9633.4	9494.7	9401.3	9179.3	8888.8	8444.9	8201.1	8116.4	8021.5	7731.0
42.5°	10176.6	10272.9	10198.5	10134.2	9960.5	9623.2	9049.4	8744.2	8621.6	8515.0	8268.3
45°	10687.6	10759.1	10712.4	10735.8	10661.3	10334.2	9675.8	9326.8	9199.8	9069.8	8875.6
47.5°	10893.4	10969.4	11043.8	11182.5	11309.6	11068.6	10348.8	9957.5	9823.2	9690.4	9499.1
50°	10870.1	10947.5	11163.5	11458.5	11852.7	11772.4	11058.4	10629.2	10505.1	10353.2	10176.6
52.5°	10683.2	10770.8	11048.2	11538.8	12166.6	12299.5	11781.2	11322.7	11205.9	11024.8	10848.2
55°	10192.6	10245.2	10661.3	11356.3	12241.1	12667.4	12489.3	12061.5	11944.7	11692.1	11499.4
57.5°	9283.0	9358.9	9964.8	10864.2	12054.2	12917.1	13111.3	12838.2	12725.8	12362.3	12160.8
60°	8096.0	8217.2	8910.7	10037.8	11578.2	12915.6	13676.3	13601.8	13508.4	13022.2	12811.9
62.5°	6752.7	6892.9	7560.1	8869.8	10746.0	12549.1	14029.6	14241.3	14193.2	13631.0	13362.4
65°	5186.1	5282.5	5946.8	7358.7	9450.9	11762.2	14070.5	14677.9	14686.7	14093.9	13650.0
67.5°	3453.0	3730.4	4307.2	5521.9	7716.4	10475.9	13711.3	14749.4	14834.1	14253.0	13505.5
70°	1684.9	2049.9	2615.0	3588.8	5521.9	8503.3	12772.5	14162.5	14350.8	13788.7	12644.0
72.5°	699.4	817.6	1125.7	1771.0	3169.8	5738.0	10886.1	12571.0	12920.0	12217.7	10630.6
75°	471.6	511.0	643.9	908.2	1444.0	2829.6	7850.7	9373.5	9935.6	9227.5	7542.6
77.5°	363.6	388.4	468.7	635.1	858.5	1070.2	4202.0	5648.9	5939.5	5498.6	3924.6
80°	286.2	305.2	350.4	462.8	608.8	572.3	1432.3	2559.5	2727.4	2287.9	1261.5
82.5°	248.2	255.5	251.1	313.9	404.4	334.4	470.1	944.7	1042.5	756.3	411.7
85°	179.6	200.0	208.8	194.2	214.6	169.4	192.7	334.4	367.9	328.5	232.1
87.5°	73.0	108.0	132.9	125.6	78.8	48.2	59.9	97.8	112.4	122.6	75.9
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°	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2	3082.2
2.5°	3085.1	3095.3	3102.6	3111.4	3117.2	3126.0	3143.5	3153.7	3155.2	3162.5	3161.0
5°	3112.8	3127.4	3143.5	3166.9	3193.1	3215.0	3248.6	3272.0	3280.7	3288.0	3286.6
7.5°	3172.7	3193.1	3222.3	3263.2	3301.2	3330.4	3371.3	3399.0	3426.7	3437.0	3438.4
10°	3261.8	3291.0	3333.3	3388.8	3429.7	3467.6	3510.0	3533.3	3561.1	3572.7	3578.6
12.5°	3372.7	3403.4	3458.9	3536.2	3574.2	3600.5	3615.1	3609.2	3615.1	3625.3	3628.2
15°	3499.7	3533.3	3596.1	3679.3	3705.6	3682.2	3650.1	3620.9	3616.5	3619.5	3629.7
17.5°	3650.1	3674.9	3748.0	3818.0	3799.1	3702.7	3632.6	3585.9	3562.5	3555.2	3565.4
20°	3860.4	3860.4	3920.2	3964.0	3837.0	3673.5	3564.0	3488.1	3439.9	3419.4	3415.1
22.5°	4115.9	4092.5	4130.5	4099.8	3829.7	3591.7	3439.9	3308.5	3235.5	3206.3	3201.9
25°	4440.0	4412.3	4402.1	4212.2	3777.2	3461.8	3215.0	3055.9	2991.6	2975.6	2978.5
27.5°	4929.1	4859.0	4726.2	4273.6	3680.8	3257.4	2952.2	2804.8	2768.3	2769.7	2774.1
30°	5580.3	5440.1	5114.6	4283.8	3523.1	2968.3	2683.6	2578.4	2560.9	2568.2	2593.1
32.5°	6183.3	6050.5	5511.7	4237.1	3280.7	2685.0	2442.7	2372.6	2346.3	2355.1	2366.7
35°	6656.4	6619.9	5879.6	4171.4	2982.9	2419.3	2226.6	2166.7	2115.6	2103.9	2112.7
37.5°	7103.1	7088.5	6155.6	4079.4	2688.0	2231.0	2052.8	1974.0	1899.5	1858.6	1860.1
40°	7593.7	7579.1	6336.6	3937.8	2426.6	2067.4	1896.6	1792.9	1701.0	1626.5	1633.8
42.5°	8145.6	8059.5	6422.8	3734.8	2204.7	1928.7	1769.6	1629.4	1508.2	1439.6	1444.0
45°	8748.6	8554.4	6421.3	3476.4	2017.8	1801.7	1633.8	1435.2	1322.8	1258.6	1255.6
47.5°	9388.1	9027.5	6342.5	3190.2	1836.7	1661.5	1423.5	1271.7	1197.2	1157.8	1149.1
50°	10048.1	9469.9	6208.1	2861.7	1651.3	1502.4	1292.1	1188.5	1131.5	1095.0	1081.9
52.5°	10668.6	9871.4	6046.1	2489.4	1463.0	1347.6	1233.7	1153.4	1093.6	1052.7	1035.2
55°	11245.3	10217.4	5816.8	2108.3	1309.7	1244.0	1206.0	1138.8	1070.2	1022.0	1003.1
57.5°	11757.8	10442.3	5421.2	1750.6	1200.2	1172.4	1176.8	1114.0	1035.2	994.3	968.0
60°	12184.1	10607.3	4835.7	1419.2	1111.1	1102.3	1131.5	1067.3	975.3	928.6	908.2
62.5°	12439.6	10604.3	4117.3	1162.2	1035.2	1038.1	1071.7	1008.9	915.5	871.7	858.5
65°	12417.7	10344.5	3328.9	994.3	962.2	965.1	1008.9	944.7	865.8	839.5	838.1
67.5°	11978.3	9710.8	2553.6	884.8	881.9	895.0	946.1	900.9	835.1	832.2	836.6
70°	10788.3	8395.3	1839.7	797.2	798.6	817.6	884.8	873.1	819.1	824.9	823.5
72.5°	8650.8	6400.9	1235.2	705.2	706.7	737.3	826.4	851.2	803.0	880.4	892.1
75°	5761.4	3991.8	794.3	607.4	608.8	648.3	775.3	808.9	759.2	877.5	884.8
77.5°	2768.3	1794.4	575.3	511.0	511.0	547.5	670.2	724.2	646.8	681.8	624.9
80°	956.3	674.5	452.6	411.7	403.0	427.8	565.0	627.8	557.7	513.9	481.8
82.5°	376.7	350.4	363.6	319.8	290.6	306.6	439.5	518.3	410.3	370.9	369.4
85°	216.1	227.8	257.0	211.7	167.9	188.3	322.7	372.3	309.5	273.0	278.9
87.5°	58.4	80.3	118.3	109.5	75.9	80.3	153.3	205.9	178.1	137.2	141.6
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)