

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: P969749

Luminaire Tested: **NAV-SB6A-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22821.6 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

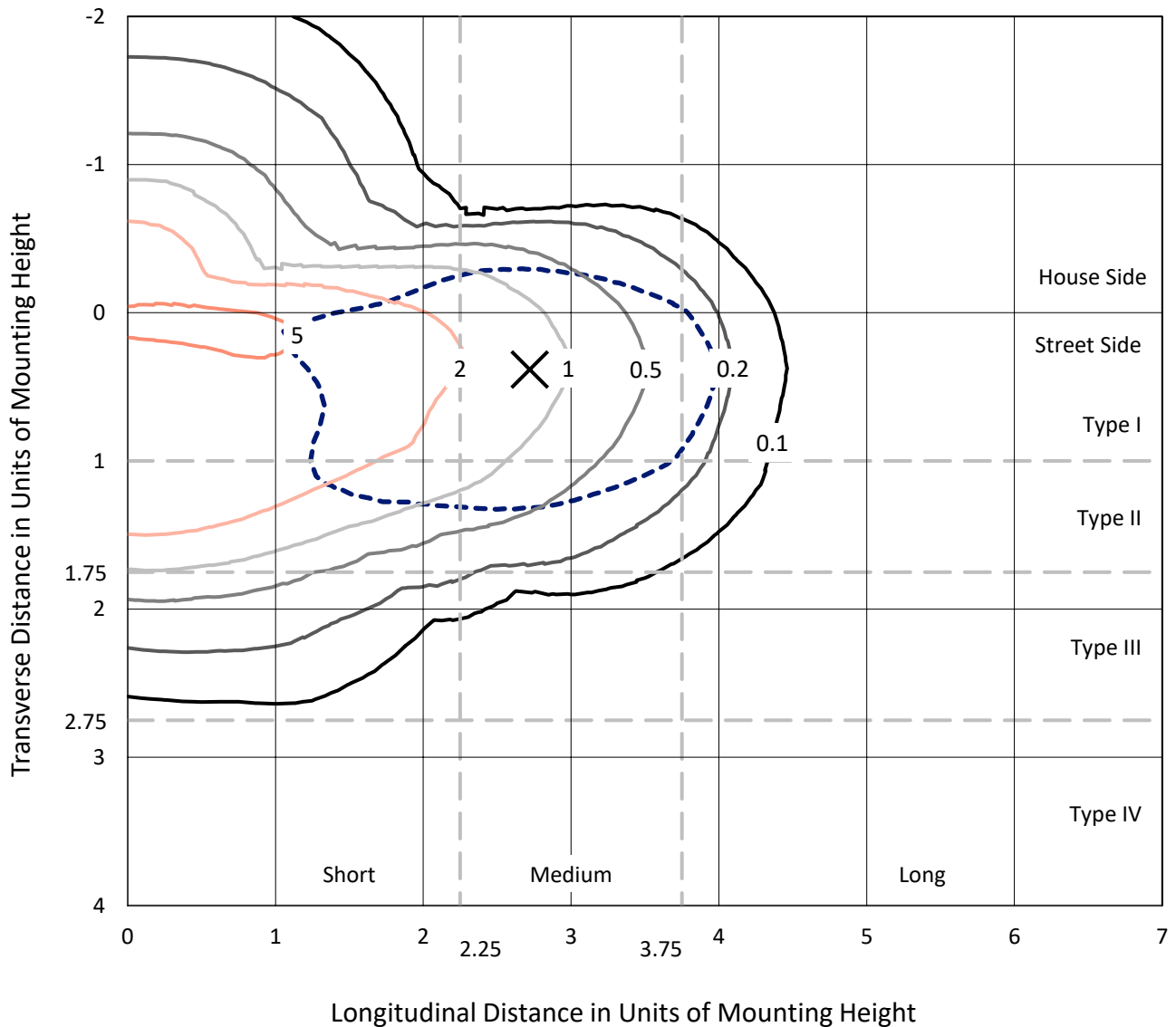
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

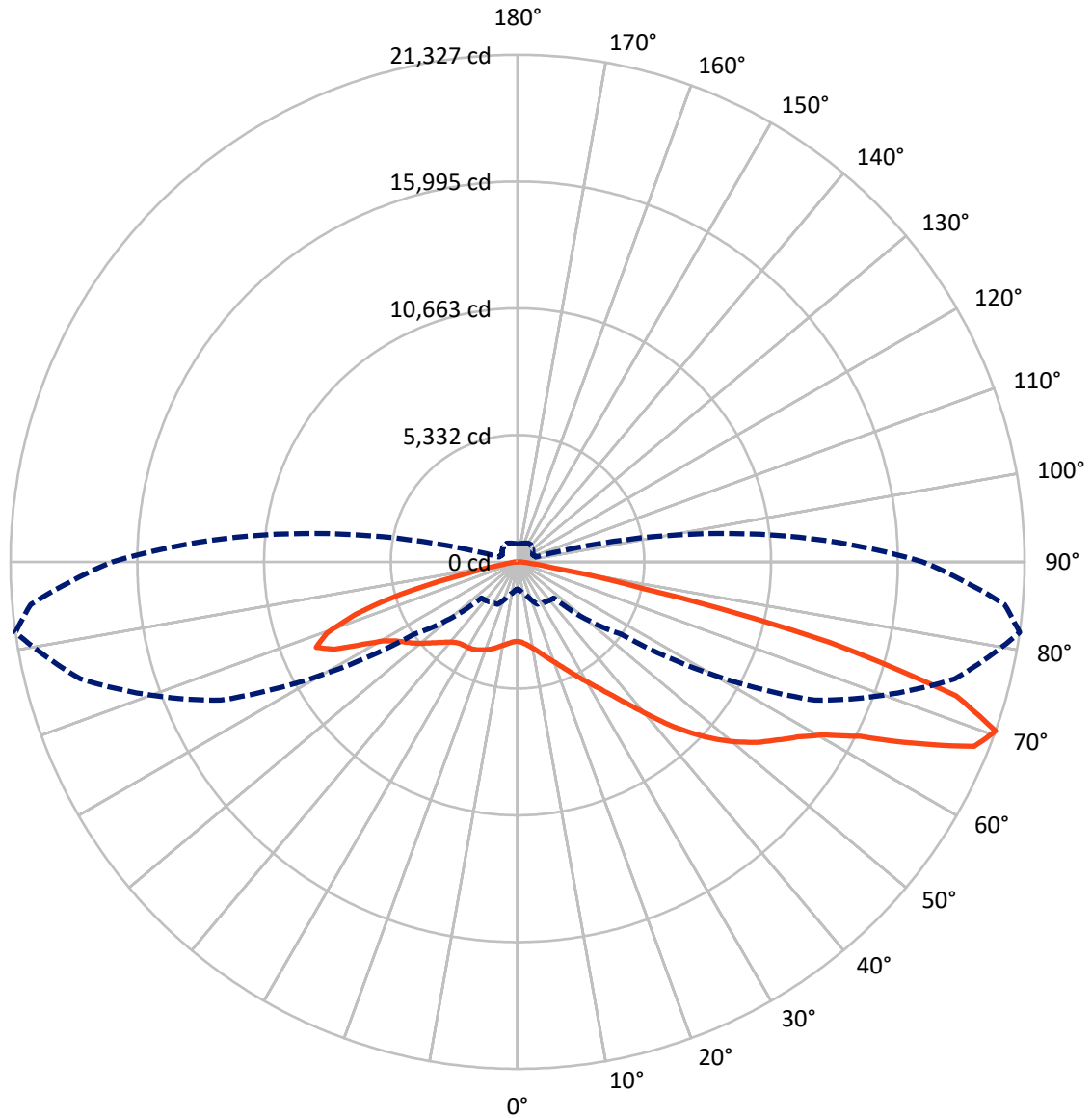
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5626.1	0.0	5626.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	17195.5	0.0	17195.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	22821.6	0.0	22821.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	1.4
10°-20°	907.6	4.0
20°-30°	1518.4	6.7
30°-40°	2372.1	10.4
40°-50°	3777.9	16.6
50°-60°	5257.4	23.0
60°-70°	5499.5	24.1
70°-80°	2874.3	12.6
80°-90°	298.5	1.3
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°	22821.6	100.0
0°-180°	22821.6	100.0

Coefficient of Utilization

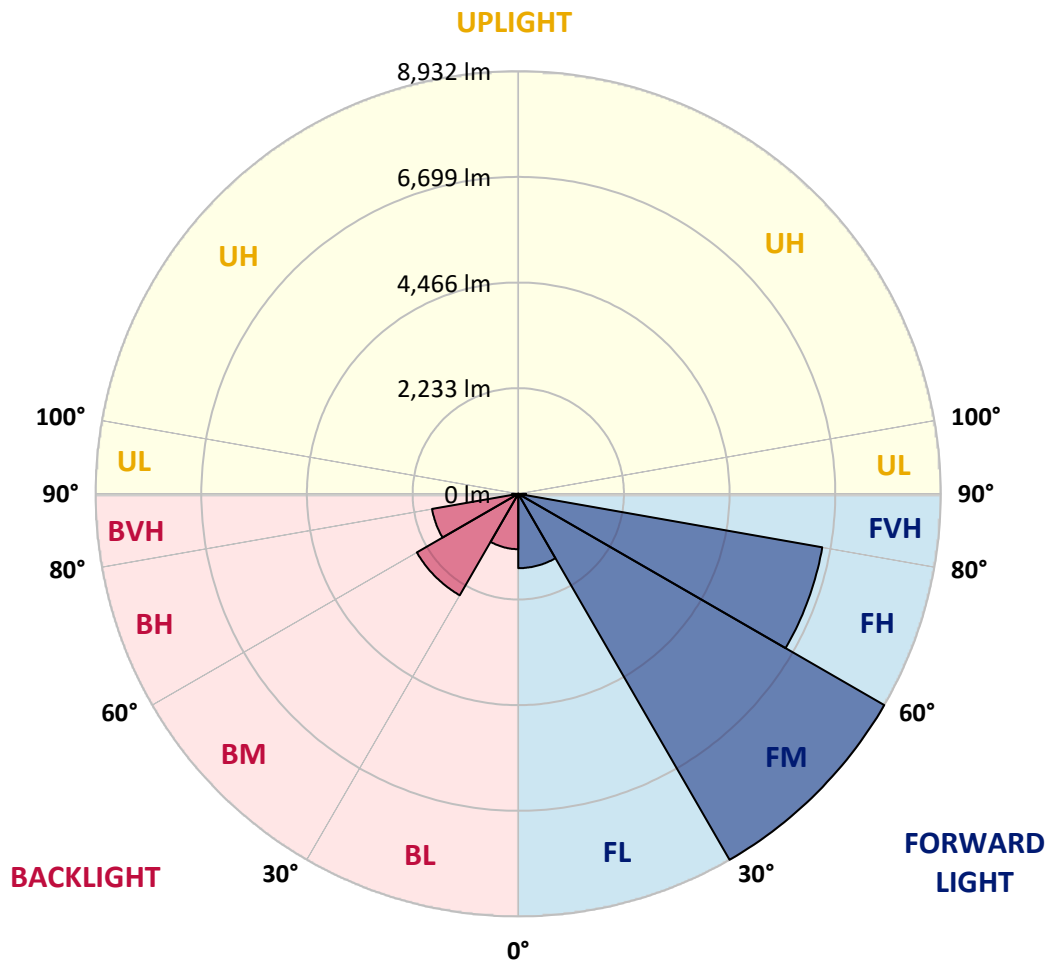


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1571.5	6.9			
FM (30°-60°)	8932.1	39.1			
FH (60°-80°)	6524.8	28.6			G3/7500
FVH (80°-90°)	167.1	0.7			G2/225
BL (0°-30°)	1170.4	5.1	B3/2500		
BM (30°-60°)	2475.3	10.8	B2/2500		
BH (60°-80°)	1849.0	8.1	B3/2500		G3/2500
BVH (80°-90°)	131.4	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3345.9	3345.9	3345.9	3345.9	3345.9	3345.9	3345.9	3345.9	3345.9	3345.9	3345.9
2.5°	3425.9	3445.2	3439.2	3433.1	3433.1	3424.6	3423.4	3411.3	3401.7	3385.9	3382.3
5°	3469.4	3490.0	3487.7	3492.5	3508.2	3511.9	3515.4	3508.2	3488.8	3469.4	3461.0
7.5°	3430.7	3453.7	3461.0	3490.0	3538.5	3582.1	3614.8	3628.1	3609.9	3582.1	3568.7
10°	3299.9	3325.3	3350.8	3419.8	3505.8	3608.7	3695.9	3748.0	3744.3	3717.7	3694.7
12.5°	3034.7	3061.4	3115.9	3250.3	3407.7	3589.3	3751.6	3860.6	3898.2	3878.8	3838.8
15°	2822.7	2845.8	2887.0	3025.0	3229.7	3505.8	3772.2	3984.1	4079.8	4068.8	4020.5
17.5°	2816.7	2826.4	2851.9	2917.3	3074.7	3375.0	3750.4	4105.2	4288.1	4286.9	4226.3
20°	2923.3	2926.9	2941.4	2954.8	3044.4	3275.7	3694.7	4205.8	4521.8	4521.8	4456.4
22.5°	3071.0	3068.6	3083.2	3071.0	3114.7	3267.2	3659.6	4294.1	4782.1	4801.5	4719.2
25°	3292.6	3280.5	3276.9	3249.0	3257.6	3345.9	3698.3	4394.7	5091.0	5130.9	5028.0
27.5°	3588.1	3568.7	3555.4	3491.3	3469.4	3508.2	3817.0	4515.7	5434.9	5503.9	5373.2
30°	3973.2	3938.2	3918.8	3807.4	3728.6	3734.7	3996.3	4676.8	5794.5	5905.9	5740.0
32.5°	4498.8	4444.3	4392.2	4209.4	4065.3	4018.0	4227.5	4899.6	6184.4	6362.5	6149.4
35°	5087.3	5043.7	4988.1	4705.9	4484.3	4375.3	4539.9	5210.8	6641.0	6923.2	6645.9
37.5°	5654.1	5616.5	5643.1	5263.0	4977.1	4818.5	4949.3	5628.6	7204.1	7620.7	7268.3
40°	6240.2	6211.1	6214.8	5851.4	5518.4	5340.5	5445.7	6153.0	7849.6	8450.2	8016.7
42.5°	6877.1	6855.3	6782.7	6460.6	6086.3	5920.5	6017.4	6758.4	8542.2	9394.7	8837.8
45°	7590.4	7577.1	7509.3	7139.9	6711.3	6524.7	6655.5	7426.9	9238.5	10283.6	9662.4
47.5°	8206.8	8217.7	8209.2	7898.0	7453.6	7179.9	7336.1	8124.5	9886.4	11119.2	10453.2
50°	8503.5	8560.4	8643.9	8547.1	8271.0	7992.4	8022.8	8797.8	10504.0	11902.7	11211.2
52.5°	8348.5	8456.2	8683.9	8839.0	8945.5	8887.4	8806.3	9466.2	11085.3	12610.0	11928.1
55°	7770.8	7922.2	8300.0	8674.3	9217.9	9640.6	9747.1	10207.4	11652.0	13232.3	12606.3
57.5°	6718.5	6964.4	7303.4	8060.3	8975.8	10005.1	10844.3	11235.4	12252.6	13897.2	13315.9
60°	4914.2	5243.5	5665.0	6791.1	8128.0	9810.2	11778.0	12814.6	13106.5	14758.2	14239.9
62.5°	3144.9	3348.4	3735.9	4796.7	6333.4	8811.1	12063.7	14788.5	14553.6	16170.2	15625.3
65°	2153.1	2283.9	2638.8	3234.5	4094.4	6558.7	11298.5	16268.3	16852.0	18408.1	17994.0
67.5°	1564.6	1663.9	1966.7	2488.6	2667.8	3881.2	8767.4	16200.4	19086.2	20713.8	20069.6
70°	1140.7	1210.9	1465.2	1966.7	2052.6	2159.2	5311.3	13771.3	19037.8	21326.6	20555.1
72.5°	845.2	893.7	1064.5	1525.8	1661.4	1458.1	2629.0	10008.7	16359.1	19289.7	18670.9
75°	611.5	647.9	773.8	1167.4	1329.6	1110.5	1311.5	5849.1	11411.0	13569.1	13678.0
77.5°	467.4	495.3	577.6	855.0	1064.5	833.1	813.7	2690.8	5410.7	5437.3	5742.5
80°	375.4	393.6	438.4	601.9	816.2	623.6	530.4	1086.3	1709.9	1447.1	1518.5
82.5°	276.1	306.4	370.5	422.6	583.7	429.9	323.3	548.6	650.3	559.4	564.4
85°	157.4	178.0	224.1	302.8	373.0	262.8	185.3	243.4	302.8	248.3	221.6
87.5°	55.7	72.7	78.7	118.7	162.3	109.0	71.4	70.2	99.3	73.9	61.8
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°	3345.9	3345.9	3345.9	3345.9	3345.9	3345.9	3345.9	3345.9	3345.9	3345.9	3345.9
2.5°	3370.2	3364.0	3339.9	3307.2	3273.2	3240.5	3229.7	3206.7	3190.9	3182.4	3192.2
5°	3438.0	3418.6	3361.7	3289.0	3212.8	3130.4	3072.2	3018.9	2980.2	2943.9	2958.5
7.5°	3534.8	3501.0	3402.9	3275.7	3140.1	3003.2	2901.5	2824.0	2771.9	2738.0	2745.3
10°	3647.5	3595.4	3445.2	3255.1	3045.6	2849.4	2729.6	2663.0	2630.3	2612.1	2616.9
12.5°	3777.0	3703.2	3488.8	3207.8	2901.5	2677.5	2595.1	2575.7	2577.0	2578.2	2580.6
15°	3936.9	3833.9	3524.0	3104.9	2713.8	2545.5	2530.9	2562.4	2595.1	2610.9	2609.6
17.5°	4117.3	3972.0	3530.0	2935.4	2529.7	2460.7	2506.7	2574.5	2624.2	2646.0	2650.9
20°	4311.0	4112.5	3486.4	2695.6	2378.4	2391.7	2474.0	2561.3	2615.7	2643.6	2650.9
22.5°	4532.7	4262.7	3382.3	2443.8	2254.8	2316.6	2413.5	2498.2	2555.1	2583.0	2590.3
25°	4785.8	4431.0	3218.8	2231.8	2148.3	2231.8	2328.7	2398.9	2444.9	2470.4	2477.6
27.5°	5066.8	4606.6	3000.8	2063.5	2055.0	2144.6	2224.6	2279.1	2303.3	2322.6	2329.9
30°	5348.9	4766.5	2736.9	1936.3	1973.9	2058.7	2115.6	2139.8	2147.1	2150.7	2159.2
32.5°	5654.1	4904.4	2459.5	1831.0	1896.4	1975.1	2009.0	2019.9	1986.0	1963.0	1970.3
35°	6023.4	5052.2	2188.3	1747.4	1820.1	1887.9	1898.8	1889.2	1849.2	1802.0	1804.4
37.5°	6479.9	5236.3	1971.5	1688.1	1748.6	1793.4	1780.1	1777.8	1781.3	1725.7	1729.3
40°	7039.4	5476.1	1812.8	1642.0	1690.5	1700.2	1662.7	1683.3	1701.4	1616.6	1619.1
42.5°	7660.6	5765.5	1712.4	1610.6	1642.0	1619.1	1561.0	1583.9	1581.6	1470.2	1468.9
45°	8294.0	6080.3	1677.2	1587.6	1597.3	1551.2	1487.1	1493.1	1442.3	1341.7	1345.4
47.5°	8923.8	6418.1	1699.0	1568.2	1541.6	1489.5	1439.8	1413.2	1338.1	1263.0	1263.0
50°	9541.3	6773.0	1778.9	1529.5	1465.2	1435.0	1398.7	1351.5	1271.5	1207.3	1202.5
52.5°	10114.1	7130.2	1868.6	1465.2	1369.6	1387.7	1364.8	1310.3	1231.5	1166.1	1167.4
55°	10656.6	7487.5	1903.6	1376.9	1280.0	1346.6	1333.3	1232.8	1138.4	1085.1	1080.1
57.5°	11247.5	7917.4	1864.9	1264.2	1207.3	1299.4	1248.6	1137.1	1082.6	1042.6	1039.0
60°	12066.2	8591.9	1781.3	1125.0	1138.4	1229.2	1142.0	1095.9	1036.6	991.8	989.3
62.5°	13426.2	9850.1	1647.0	987.0	1057.2	1125.0	1091.1	1045.1	984.5	941.0	941.0
65°	15436.4	11598.8	1393.8	879.1	966.4	1023.3	1036.6	990.6	927.6	881.6	884.1
67.5°	17131.7	12695.9	1054.7	789.6	873.1	941.0	978.5	933.7	867.0	822.3	823.5
70°	17038.5	11899.1	805.3	701.2	790.8	859.8	908.3	873.1	801.7	759.3	762.9
72.5°	15133.6	9954.3	651.5	611.5	707.2	775.0	833.1	806.5	733.9	692.7	692.7
75°	11118.0	7066.0	520.7	520.7	603.1	686.6	750.8	733.9	667.3	638.2	629.8
77.5°	4686.5	2964.5	408.1	432.3	501.3	589.8	669.6	675.7	617.6	653.9	593.4
80°	1246.1	817.4	311.2	340.3	393.6	486.8	582.5	580.0	517.1	483.2	449.3
82.5°	474.7	322.2	221.6	239.7	284.5	373.0	461.4	475.9	413.0	357.2	357.2
85°	182.9	138.1	136.8	144.1	165.9	247.0	348.8	360.9	311.2	264.0	272.4
87.5°	47.3	41.2	50.8	48.5	76.3	132.0	199.8	207.0	190.1	110.2	157.4
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)