

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: P970831

Luminaire Tested: **NAV-SB6C-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-727-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43977.6 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

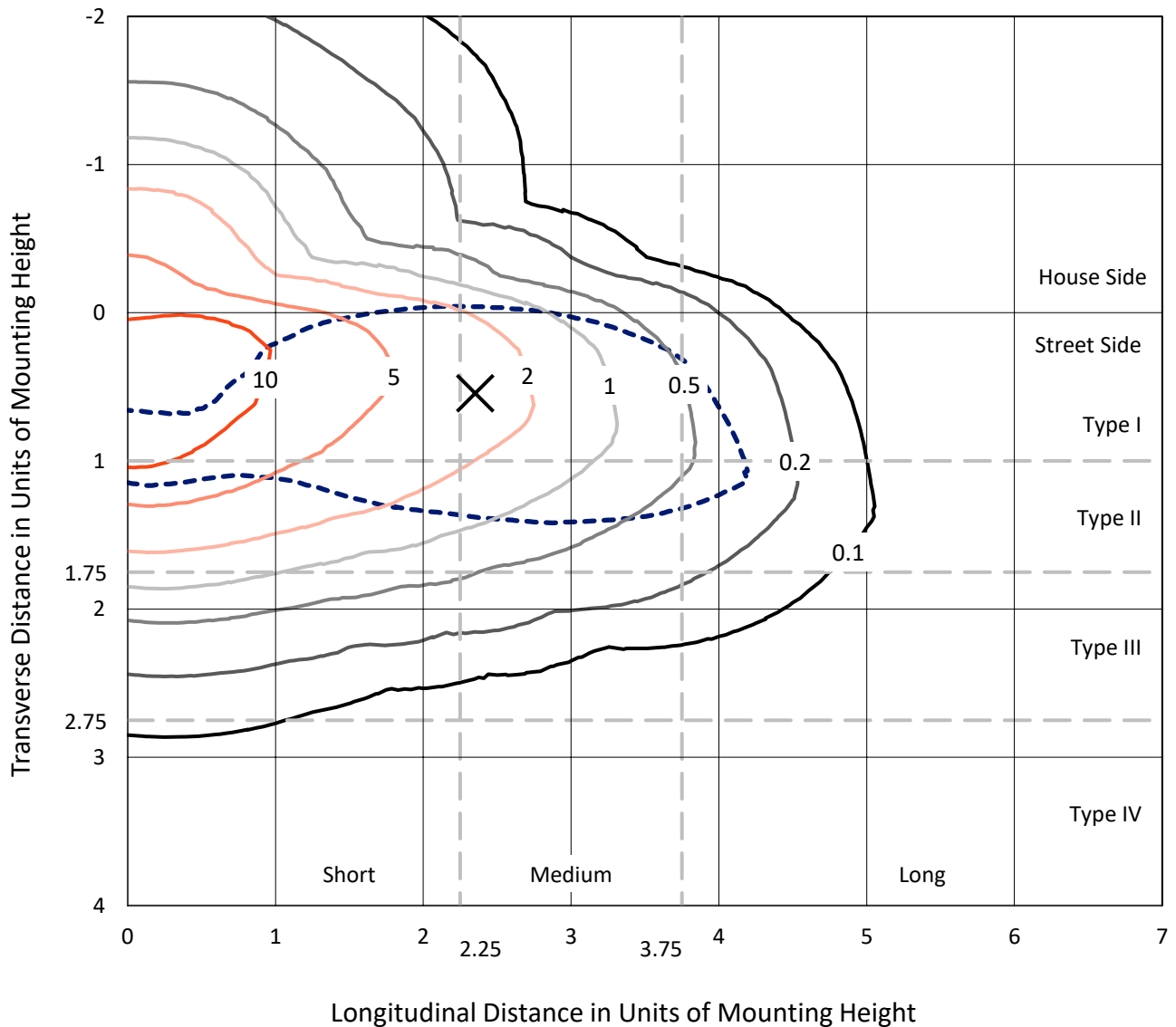
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

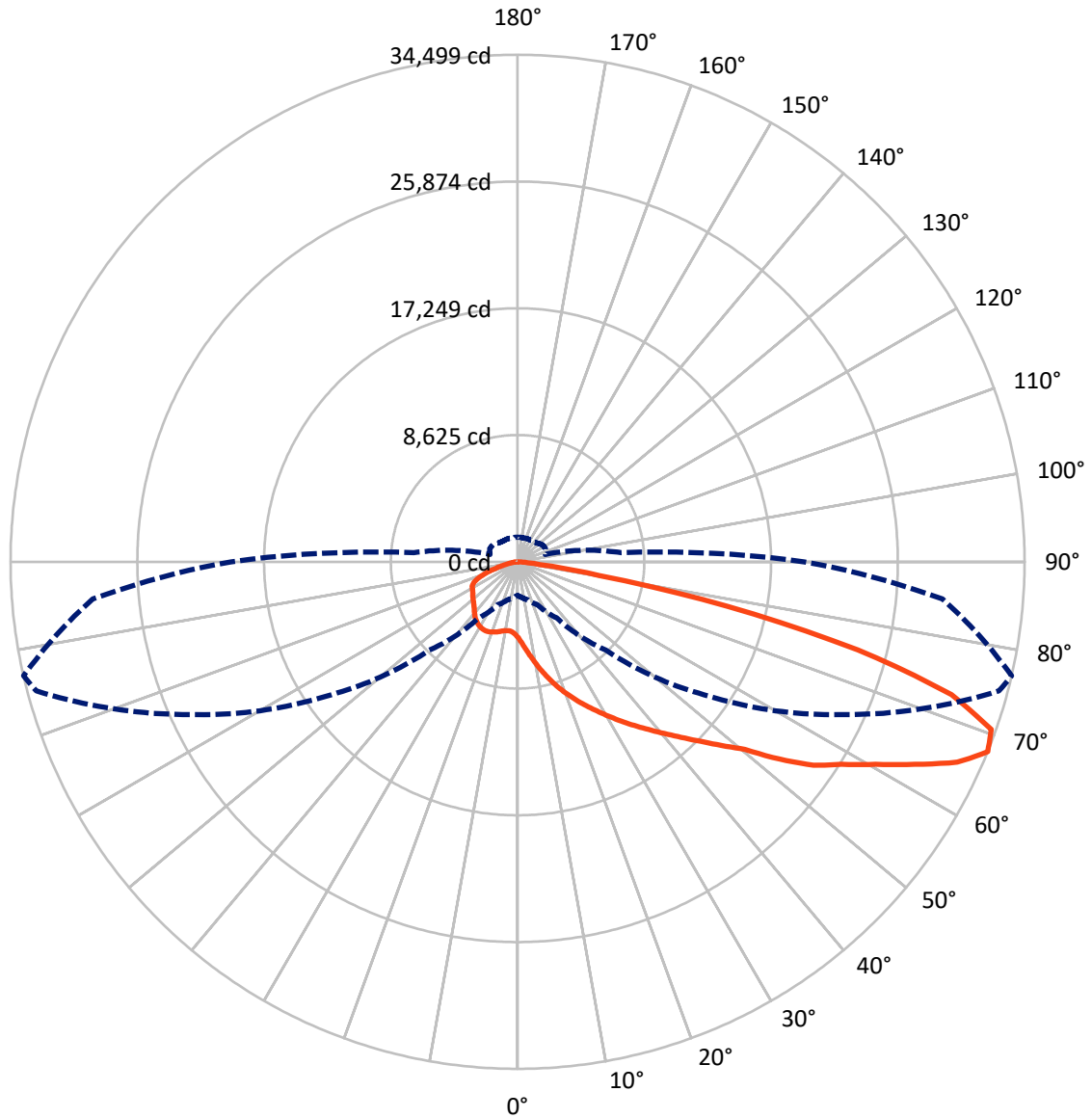
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8318.8	0.0	8318.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	35658.8	0.0	35658.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	43977.6	0.0	43977.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.1	1.3
10°-20°	1987.0	4.5
20°-30°	3751.6	8.5
30°-40°	6043.8	13.7
40°-50°	8266.8	18.8
50°-60°	9325.0	21.2
60°-70°	8703.7	19.8
70°-80°	4771.1	10.8
80°-90°	575.5	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°	43977.6	100.0
0°-180°	43977.6	100.0

Coefficient of Utilization

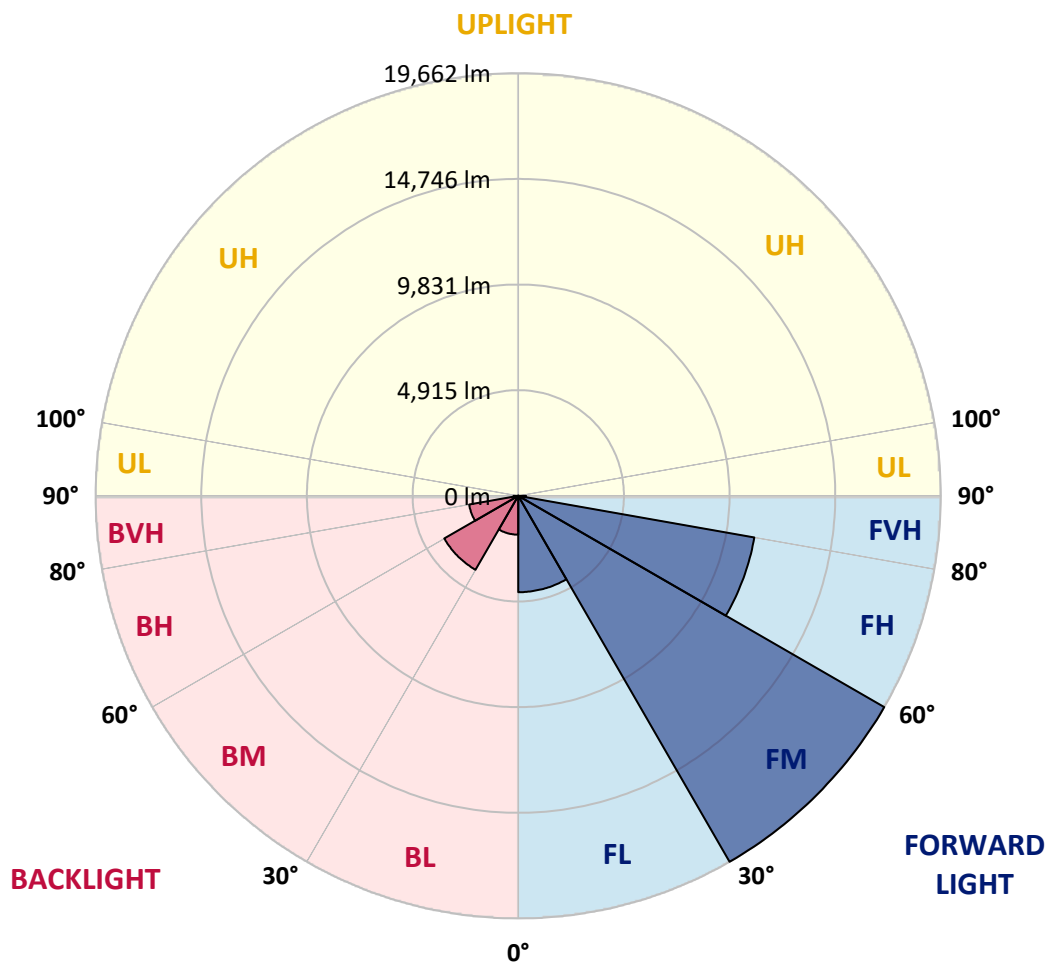


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4483.0	10.2			
FM (30°-60°)	19661.9	44.7			
FH (60°-80°)	11154.0	25.4			G4/12000
FVH (80°-90°)	359.9	0.8			G3/500
BL (0°-30°)	1808.7	4.1	B3/2500		
BM (30°-60°)	3973.7	9.0	B3/5000		
BH (60°-80°)	2320.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	215.6	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5160.0	5160.0	5160.0	5160.0	5160.0	5160.0	5160.0	5160.0	5160.0	5160.0	5160.0
2.5°	6460.7	6506.1	6449.4	6449.4	6258.6	6158.8	5968.1	5822.8	5561.8	5516.3	5343.8
5°	7636.7	7693.3	7613.9	7579.9	7355.1	7148.6	6828.4	6513.0	6047.6	5999.8	5593.5
7.5°	8547.0	8619.5	8549.2	8512.9	8313.2	8081.6	7707.0	7266.6	6610.5	6517.5	5929.5
10°	9289.3	9300.6	9277.9	9291.5	9134.9	8944.3	8560.6	8047.5	7228.0	7100.9	6335.8
12.5°	9709.2	9761.5	9806.8	9888.6	9861.3	9743.2	9398.2	8785.3	7881.8	7718.4	6778.5
15°	9906.7	9997.5	10099.6	10288.1	10440.2	10469.8	10206.3	9577.6	8547.0	8349.4	7225.7
17.5°	9977.1	10063.3	10224.6	10496.9	10823.8	11044.1	10926.0	10347.2	9205.2	8978.3	7695.6
20°	10333.5	10358.4	10456.1	10714.8	11069.0	11434.5	11523.0	11087.2	9856.8	9600.3	8181.4
22.5°	11096.2	11046.3	11073.6	11191.6	11445.9	11800.0	12002.0	11741.0	10526.4	10231.3	8671.8
25°	12356.2	12210.9	12065.6	11929.4	12058.8	12258.6	12487.8	12394.7	11228.0	10853.3	9166.7
27.5°	13947.5	13770.5	13450.4	13003.2	12846.5	12916.8	13019.0	13000.9	11877.2	11498.0	9677.4
30°	15513.9	15307.2	14925.9	14279.0	13865.8	13679.6	13602.5	13550.2	12583.2	12179.0	10192.8
32.5°	16764.7	16601.2	16226.7	15502.5	14903.2	14585.4	14328.9	14142.7	13321.0	12916.8	10737.6
35°	17858.9	17706.8	17277.7	16487.7	15836.2	15498.0	15162.0	14764.7	14088.2	13679.6	11323.3
37.5°	18857.7	18705.6	18117.7	17296.0	16639.8	16406.0	16106.3	15432.2	14857.8	14471.9	11943.0
40°	19488.8	19454.8	18905.4	17974.7	17293.6	17177.9	17077.9	16206.3	15711.4	15352.7	12624.0
42.5°	19650.0	19724.9	19289.1	18524.0	17874.8	17781.7	18015.5	17082.5	16669.4	16326.6	13395.8
45°	19261.8	19477.5	19191.5	18671.6	18287.9	18238.0	18846.4	18040.5	17729.5	17416.2	14326.6
47.5°	18278.8	18644.3	18526.3	18453.7	18399.2	18614.8	19577.4	19057.5	18930.4	18658.0	15389.0
50°	16294.8	16987.2	17193.8	17652.3	18179.0	18907.7	20242.5	20167.6	20333.3	20058.6	16683.0
52.5°	12864.7	13818.1	15016.8	16165.4	17502.5	18810.1	20973.4	21761.2	22460.4	22310.6	18739.7
55°	10619.5	11048.6	11970.3	14076.9	16190.4	18399.2	21302.7	23048.4	24571.6	24437.6	20299.2
57.5°	8894.2	9277.9	9845.4	11604.7	14206.3	17466.2	21507.0	23833.8	26017.7	26004.0	21838.3
60°	7044.1	7450.5	8031.6	9277.9	11888.6	15854.4	21461.6	24728.2	27863.2	27976.8	23715.7
62.5°	4955.7	5402.9	6047.6	7209.8	9520.8	13765.9	20535.4	25375.2	30035.7	30344.4	25974.5
65°	3257.6	3552.8	4038.5	5041.9	7094.0	11080.4	18766.9	25459.2	32360.3	32882.4	28094.7
67.5°	2283.7	2397.3	2683.2	3228.1	4676.5	8496.9	15949.7	24589.7	33910.8	34498.7	29014.2
70°	1782.1	1838.7	1984.1	2202.0	2937.5	5713.9	12222.2	22328.7	33579.3	34192.3	28053.9
72.5°	1539.1	1593.6	1648.1	1675.4	1970.5	3527.7	8279.0	18669.4	30458.0	30873.4	24392.2
75°	1396.2	1409.7	1455.1	1446.1	1502.9	2288.3	4778.5	13602.5	24031.3	23888.2	18006.5
77.5°	1173.6	1191.8	1266.7	1255.3	1334.9	1564.1	2481.2	8778.5	15579.7	14608.1	10022.4
80°	994.4	1003.4	1085.1	1071.5	1160.0	1132.8	1266.7	4474.3	6608.3	5598.0	2889.9
82.5°	345.0	426.8	828.6	853.5	885.3	685.5	730.9	1825.1	2018.1	1545.9	606.1
85°	168.0	179.4	422.2	599.3	597.1	345.0	356.4	651.5	635.6	499.4	202.0
87.5°	27.3	34.0	49.9	233.8	186.1	90.8	122.6	127.1	131.7	113.5	45.4
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°	5160.0	5160.0	5160.0	5160.0	5160.0	5160.0	5160.0	5160.0	5160.0	5160.0	5160.0
2.5°	5216.7	5103.2	4864.9	4644.6	4472.1	4306.3	4213.3	4133.8	4088.4	4079.4	4079.4
5°	5357.5	5123.7	4690.0	4324.6	4086.2	3909.1	3816.1	3757.0	3727.5	3709.4	3707.1
7.5°	5559.5	5216.7	4599.3	4183.8	3934.1	3807.0	3759.3	3750.2	3747.9	3750.2	3757.0
10°	5838.7	5368.7	4590.2	4149.7	3940.9	3870.5	3868.2	3870.5	3879.6	3881.9	3884.1
12.5°	6140.7	5525.5	4626.4	4179.2	4027.1	3988.6	3981.7	3979.5	3986.3	3990.8	3993.1
15°	6469.8	5732.0	4687.7	4242.8	4122.5	4081.7	4074.8	4061.3	4058.9	4056.6	4054.4
17.5°	6808.0	5936.3	4755.9	4310.9	4183.8	4127.1	4102.0	4070.3	4045.4	4038.5	4045.4
20°	7150.8	6138.3	4803.6	4345.0	4188.4	4108.9	4058.9	4004.5	3961.3	3936.3	3945.4
22.5°	7516.3	6349.5	4833.1	4335.9	4147.5	4038.5	3947.7	3884.1	3818.3	3775.2	3777.4
25°	7872.7	6533.3	4830.8	4288.2	4068.0	3929.5	3813.8	3732.0	3641.2	3595.8	3595.8
27.5°	8215.5	6699.1	4774.0	4204.2	3954.6	3800.2	3661.7	3564.0	3475.6	3432.4	3430.2
30°	8569.6	6837.6	4685.5	4081.7	3820.6	3650.3	3498.2	3414.3	3334.7	3293.9	3291.7
32.5°	8921.5	6964.7	4560.6	3929.5	3666.2	3502.7	3353.0	3275.8	3228.1	3228.1	3230.4
35°	9293.8	7053.2	4394.9	3752.5	3502.7	3346.1	3228.1	3182.7	3178.1	3151.0	3144.1
37.5°	9686.6	7109.9	4192.9	3570.9	3341.6	3194.0	3157.7	3103.2	3057.8	2998.8	2989.7
40°	10099.6	7166.7	3949.9	3382.5	3171.4	3089.7	3073.7	3001.1	2871.6	2726.4	2706.0
42.5°	10601.4	7205.3	3698.0	3194.0	2992.0	2964.7	2987.5	2862.6	2656.0	2547.0	2549.3
45°	11182.5	7268.9	3466.4	3007.9	2808.1	2808.1	2903.4	2740.0	2569.8	2501.6	2513.0
47.5°	11936.2	7416.4	3250.8	2803.6	2637.8	2683.2	2717.3	2592.4	2497.1	2413.2	2410.8
50°	13025.8	7770.5	3028.4	2597.0	2508.5	2599.3	2551.6	2479.0	2367.8	2299.6	2292.8
52.5°	14378.8	7979.4	2830.8	2410.8	2397.3	2488.0	2419.9	2351.9	2267.8	2177.0	2158.9
55°	15300.5	8018.0	2665.1	2274.7	2322.3	2313.2	2288.3	2227.0	2181.6	2061.3	2063.5
57.5°	16331.1	8095.1	2528.9	2192.9	2274.7	2174.7	2165.7	2113.4	2054.4	1972.7	1945.4
60°	17563.8	8215.5	2410.8	2161.1	2233.8	2083.9	2038.5	2018.1	1959.1	1918.2	1929.6
62.5°	18907.7	8324.4	2290.6	2165.7	2186.1	1995.5	1927.3	1920.5	1884.2	1870.5	1870.5
65°	19824.8	8027.1	2140.7	2161.1	2111.2	1904.7	1818.4	1816.1	1786.6	1782.1	1779.8
67.5°	19504.7	7085.0	1938.7	2097.6	2034.0	1813.8	1718.5	1709.4	1670.7	1673.1	1673.1
70°	17902.0	5741.1	1659.5	1940.9	1938.7	1732.0	1614.1	1584.5	1532.3	1541.4	1550.5
72.5°	14896.4	4254.2	1284.8	1679.9	1786.6	1657.2	1493.7	1446.1	1380.3	1389.3	1387.0
75°	10758.0	2892.1	935.3	1278.1	1555.0	1568.7	1375.7	1294.0	1214.5	1228.2	1232.7
77.5°	5505.0	1639.0	687.9	880.8	1221.3	1425.7	1268.9	1160.0	1141.8	1268.9	1250.8
80°	1795.7	821.7	476.7	617.5	801.3	1166.9	1112.3	987.5	983.0	1012.5	869.4
82.5°	535.8	347.4	306.5	406.3	442.7	894.4	960.2	746.8	642.5	676.5	699.2
85°	183.9	168.0	174.8	202.0	211.2	524.4	672.0	494.9	467.6	515.3	508.5
87.5°	43.2	59.0	49.9	45.4	45.4	127.1	261.1	206.5	286.1	190.6	183.9
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)