

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: P968806

Luminaire Tested: **NAV-SB5C-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-740-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40094.9 lumens
Efficiency: N/A
Efficacy: 160.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

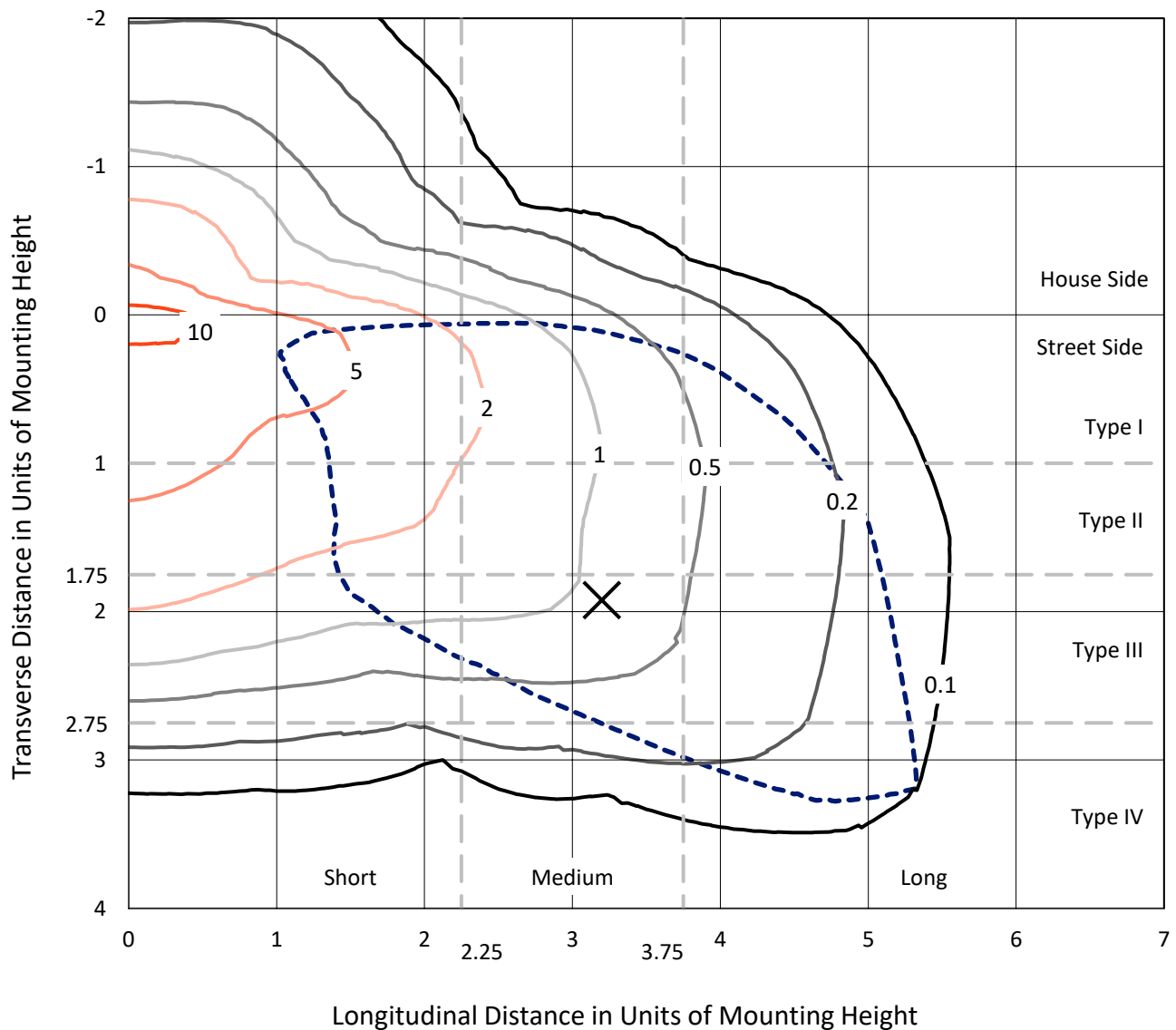
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

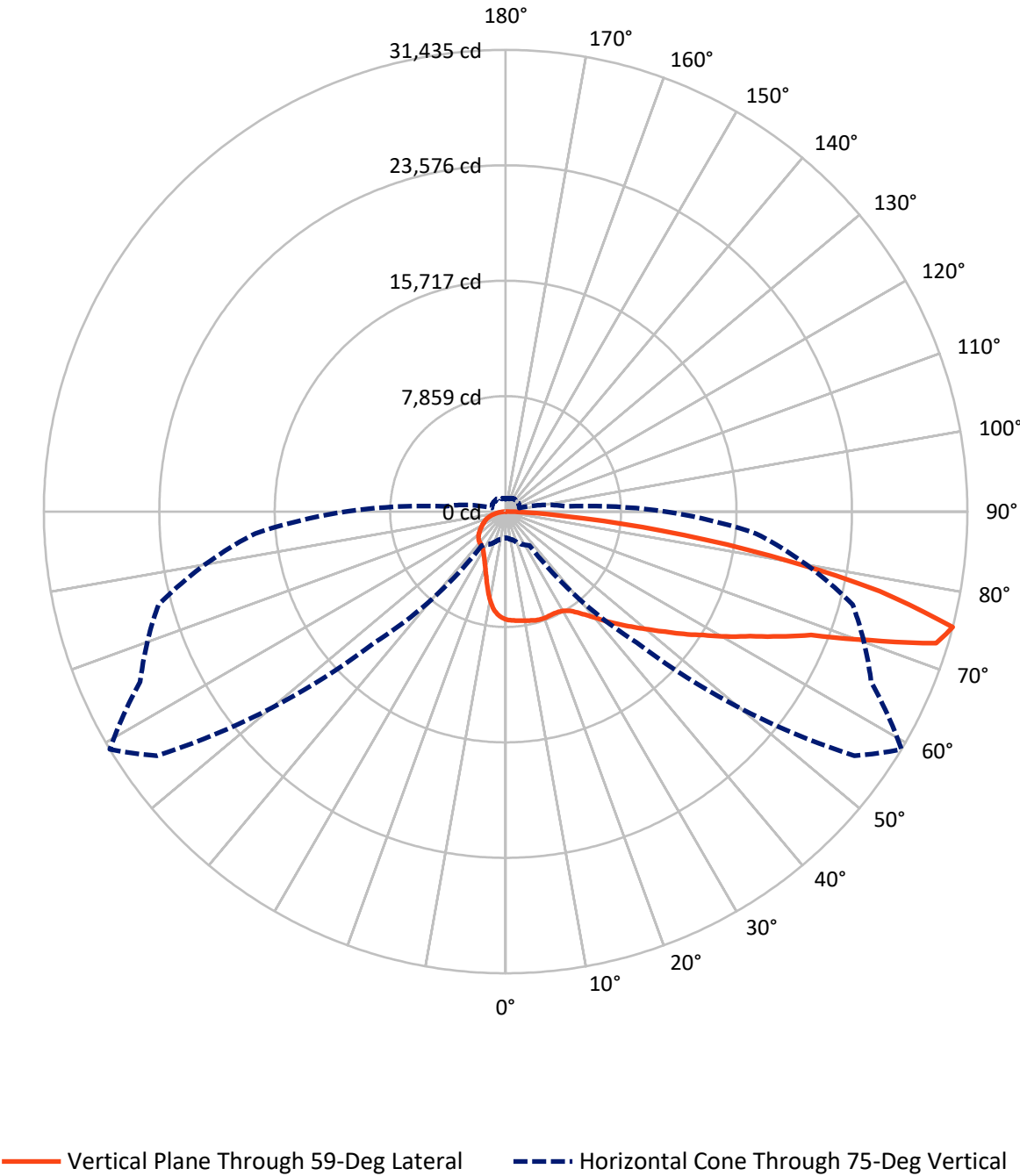
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7520.1	0.0	7520.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	32574.8	0.0	32574.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	40094.9	0.0	40094.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.9	1.6
10°-20°	1686.7	4.2
20°-30°	2562.0	6.4
30°-40°	3808.3	9.5
40°-50°	5663.6	14.1
50°-60°	7687.7	19.2
60°-70°	9385.4	23.4
70°-80°	7365.5	18.4
80°-90°	1275.9	3.2
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°	40094.9	100.0
0°-180°	40094.9	100.0

Coefficient of Utilization



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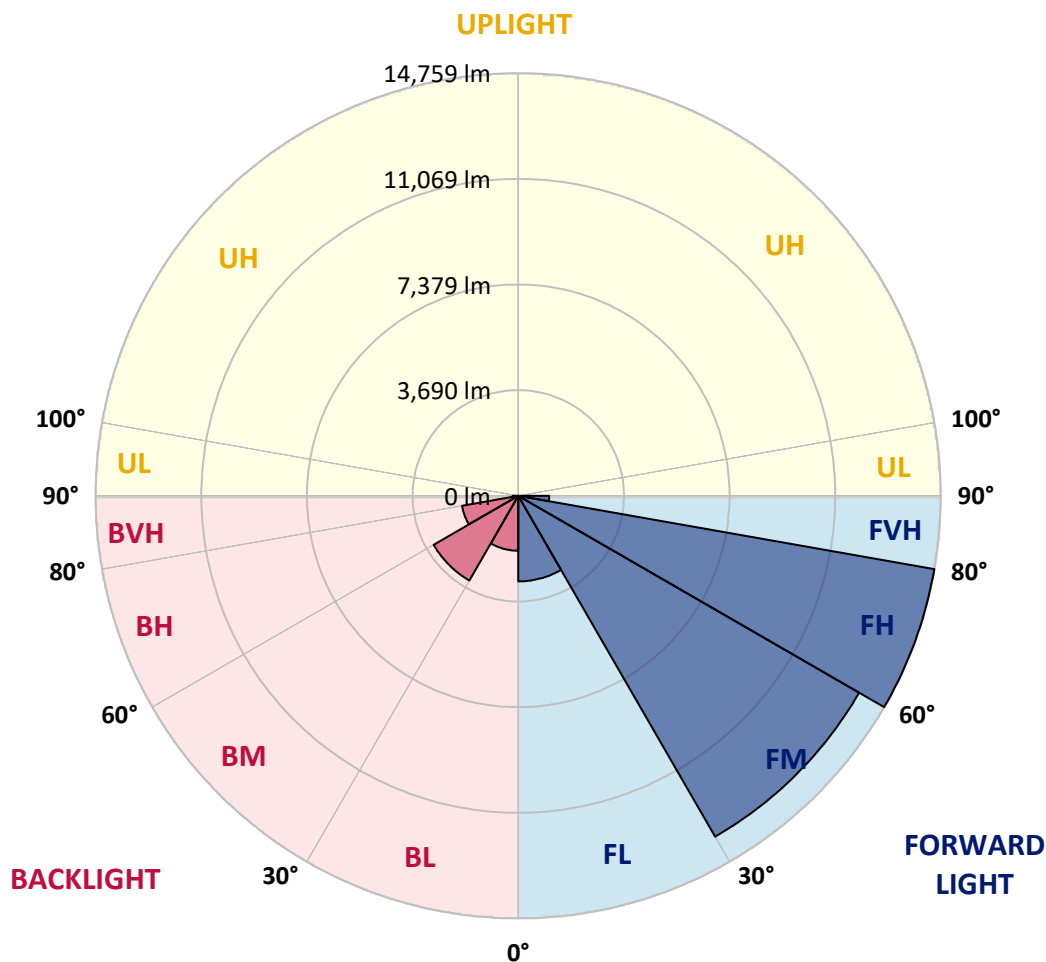
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2989.5	7.5			
FM	(30°-60°)	13746.2	34.3			
FH	(60°-80°)	14758.5	36.8			G5
FVH	(80°-90°)	1080.6	2.7			G5
BL	(0°-30°)	1919.0	4.8	B3/2500		
BM	(30°-60°)	3413.4	8.5	B3/5000		
BH	(60°-80°)	1992.4	5.0	B3/2500		G3/2500
BVH	(80°-90°)	195.3	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7359.3	7359.3	7359.3	7359.3	7359.3	7359.3	7359.3	7359.3	7359.3	7359.3	7359.3
2.5°	7421.9	7396.0	7421.9	7411.1	7406.8	7398.1	7400.3	7415.4	7406.8	7417.6	7380.9
5°	7372.3	7357.1	7383.1	7376.6	7404.6	7408.9	7437.0	7454.2	7465.0	7467.2	7439.1
7.5°	7290.3	7275.2	7311.8	7342.1	7402.4	7419.8	7478.0	7506.0	7521.1	7547.0	7506.0
10°	6990.5	6984.0	7074.7	7188.9	7331.3	7419.8	7508.1	7555.6	7579.4	7648.3	7600.9
12.5°	6459.9	6468.6	6587.2	6807.1	7091.9	7376.6	7542.7	7611.6	7648.3	7734.6	7713.0
15°	5953.0	5950.8	6080.3	6315.4	6714.5	7186.8	7559.9	7678.6	7741.1	7868.4	7851.1
17.5°	5659.7	5651.0	5741.6	5920.7	6291.7	6895.6	7516.8	7715.2	7848.9	8008.5	7993.5
20°	5605.8	5588.5	5636.0	5724.4	5987.5	6576.4	7404.6	7715.2	7935.2	8142.3	8133.7
22.5°	5802.0	5774.0	5754.6	5743.8	5860.3	6313.3	7277.4	7689.3	8062.4	8334.3	8319.1
25°	6196.7	6153.6	6054.4	5957.3	5922.9	6194.6	7165.3	7682.9	8252.3	8593.1	8537.0
27.5°	6835.2	6781.3	6580.7	6347.7	6138.5	6255.0	7115.7	7721.7	8461.5	8867.0	8754.8
30°	7626.8	7568.6	7316.2	6958.1	6582.9	6479.3	7178.2	7836.0	8729.0	9231.6	9011.5
32.5°	8336.4	8271.8	8056.0	7691.5	7184.6	6867.6	7376.6	8053.8	9149.6	9738.4	9397.6
35°	8966.2	8890.7	8696.6	8360.1	7922.3	7413.2	7734.6	8440.0	9747.0	10562.3	9921.7
37.5°	9583.1	9494.7	9283.3	8927.4	8621.1	8140.1	8228.6	8936.1	10540.8	11563.1	10616.2
40°	10273.3	10146.1	9889.4	9537.8	9240.2	8992.1	8877.8	9544.3	11347.5	12680.4	11483.3
42.5°	10942.0	10821.1	10514.9	10215.0	9841.9	9770.7	9630.6	10256.0	12229.6	13907.7	12363.3
45°	11662.3	11517.8	11146.9	10767.2	10532.1	10288.4	10359.6	10967.8	13094.5	15158.7	13286.5
47.5°	12337.4	12175.7	11737.8	11315.1	11185.6	10724.1	11028.2	11750.8	13993.9	16427.0	14201.0
50°	12702.0	12542.3	12177.8	11796.1	11694.7	11261.2	11753.0	12611.4	14936.5	17690.9	15078.9
52.5°	13006.1	12833.5	12356.9	12145.5	12115.3	11845.7	12645.9	13594.9	15879.1	18808.1	15926.6
55°	13329.6	13137.6	12529.4	12339.6	12477.6	12501.4	13705.0	14710.1	16875.6	19897.4	16726.8
57.5°	13702.8	13459.1	12695.5	12503.6	12831.4	13269.2	14921.4	15866.2	17854.8	20906.8	17438.5
60°	14054.4	13808.5	13014.7	12764.5	13213.2	14160.1	16317.0	17265.9	18963.4	21806.3	18111.4
62.5°	14123.4	13920.6	13269.2	13267.1	13730.8	15199.6	17969.1	18678.8	19931.8	22694.8	18715.4
65°	12928.4	12801.2	12415.1	13247.7	14472.8	16696.5	19808.9	20486.2	21163.5	23471.4	19246.0
67.5°	9839.8	9857.0	9829.0	11435.8	13873.2	18847.0	22472.7	22421.0	22684.1	24342.7	19856.4
70°	4499.2	4600.7	5260.7	7894.2	11114.5	19095.0	26877.1	26206.3	24592.9	25470.8	20384.8
72.5°	2430.8	2508.5	2778.1	3824.2	6682.1	16977.0	30168.5	30645.2	27131.6	26230.1	19804.6
75°	1783.7	1826.9	2014.5	2430.8	2806.1	12617.9	28988.7	31434.6	27448.7	24459.3	17102.0
77.5°	1335.2	1354.5	1507.7	1926.1	1436.5	6651.8	23162.9	26033.8	23497.2	20095.8	12632.9
80°	968.4	990.0	1104.3	1445.1	1007.3	2432.9	15904.9	18273.2	16092.6	12809.8	6296.0
82.5°	668.6	677.2	726.8	983.6	703.2	944.7	9024.5	10715.5	8983.5	4494.9	1699.7
85°	403.3	414.1	435.7	573.7	399.0	448.6	3895.3	4029.1	2685.3	1074.1	528.5
87.5°	166.0	176.9	194.1	241.6	157.4	125.0	642.8	806.7	502.6	314.9	163.9
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°	7359.3	7359.3	7359.3	7359.3	7359.3	7359.3	7359.3	7359.3	7359.3	7359.3	7359.3
2.5°	7370.2	7355.0	7314.0	7257.9	7206.2	7141.5	7113.4	7089.7	7068.2	7027.2	7007.7
5°	7415.4	7374.5	7264.4	7122.1	6960.3	6783.4	6610.8	6492.2	6390.9	6315.4	6252.8
7.5°	7484.4	7406.8	7206.2	6915.1	6544.0	6164.5	5821.5	5577.7	5394.4	5327.5	5211.1
10°	7555.6	7462.8	7113.4	6600.1	5959.6	5375.0	4919.9	4669.7	4523.0	4475.6	4402.3
12.5°	7639.7	7503.8	6969.0	6162.3	5306.0	4665.4	4268.5	4121.8	4046.3	4020.5	4026.9
15°	7762.6	7538.4	6751.1	5614.4	4682.6	4147.8	3891.0	3789.6	3750.9	3748.7	3757.3
17.5°	7855.4	7544.8	6412.5	5027.7	4203.8	3834.9	3623.6	3584.7	3610.7	3649.5	3664.6
20°	7958.9	7486.6	5968.2	4492.8	3867.3	3561.1	3472.6	3498.5	3561.1	3617.1	3636.5
22.5°	8032.3	7380.9	5431.1	4076.5	3576.1	3403.6	3399.3	3453.2	3487.7	3515.7	3530.8
25°	8097.0	7201.9	4861.7	3727.1	3336.7	3308.7	3356.2	3338.8	3315.2	3338.8	3354.0
27.5°	8144.4	6919.4	4352.7	3420.8	3168.5	3244.0	3215.9	3177.1	3174.9	3187.9	3209.5
30°	8129.4	6541.9	3934.2	3129.6	3049.9	3123.2	3056.3	3049.9	3043.4	3049.9	3073.6
32.5°	8129.4	6112.7	3612.8	2929.0	2974.3	2946.4	2939.8	2924.7	2898.9	2896.8	2924.7
35°	8174.7	5683.4	3336.7	2821.2	2911.8	2845.0	2849.3	2812.6	2758.7	2732.8	2758.7
37.5°	8267.3	5338.3	3062.8	2769.4	2801.8	2799.7	2782.4	2719.8	2624.9	2543.0	2571.0
40°	8491.7	5236.9	2875.1	2745.8	2750.1	2775.9	2730.6	2609.9	2394.2	2260.4	2277.7
42.5°	8843.3	5407.4	2834.1	2687.4	2715.5	2741.5	2653.0	2372.6	2219.4	2139.7	2139.7
45°	9289.8	5704.9	2922.6	2603.4	2633.5	2678.8	2415.7	2282.0	2213.0	2215.1	2225.9
47.5°	9854.9	6017.8	3086.5	2530.0	2514.9	2540.9	2258.3	2176.3	2081.4	2105.1	2165.5
50°	10508.4	6334.8	3241.8	2430.8	2383.3	2299.3	2156.9	2079.2	1958.5	1902.4	1917.5
52.5°	11215.9	6641.1	3304.4	2310.0	2241.1	2144.0	2087.9	1993.0	1846.3	1753.6	1751.4
55°	11886.6	6919.4	3235.3	2165.5	2098.7	2023.1	2014.5	1956.3	1798.9	1669.4	1669.4
57.5°	12520.8	7152.2	3062.8	2018.8	1954.2	1908.9	1967.1	1939.1	1740.7	1574.5	1565.9
60°	13057.9	7311.8	2812.6	1870.0	1824.7	1801.0	1889.5	1880.8	1658.7	1473.1	1466.7
62.5°	13484.9	7374.5	2536.5	1727.6	1716.9	1673.7	1781.6	1781.6	1555.1	1373.9	1367.5
65°	13819.3	7314.0	2256.1	1587.5	1609.0	1544.4	1650.0	1637.1	1445.1	1285.6	1276.8
67.5°	14114.8	7115.7	1945.6	1449.5	1499.1	1417.1	1512.0	1481.7	1324.3	1197.1	1188.5
70°	14246.3	6654.0	1591.8	1311.4	1371.8	1292.0	1373.9	1317.8	1188.5	1102.2	1085.0
72.5°	13189.4	5530.3	1253.2	1166.9	1218.6	1153.9	1225.1	1160.4	1041.8	1003.0	970.6
75°	10911.7	4149.9	964.1	1009.4	1048.3	998.7	1046.1	998.7	890.8	918.8	839.1
77.5°	7924.5	2801.8	737.7	843.4	860.6	834.8	875.7	821.7	724.7	718.2	685.9
80°	3940.6	1641.4	578.0	666.5	660.0	642.8	690.2	664.3	582.4	616.8	610.4
82.5°	1141.0	703.2	420.6	468.0	455.1	459.4	493.9	506.9	759.2	752.8	770.0
85°	358.0	276.0	252.4	261.0	248.0	254.5	291.2	578.0	534.9	312.7	338.7
87.5°	92.8	94.9	62.5	66.8	69.0	82.0	92.8	351.6	168.2	110.0	116.4
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)