

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: P968808

Luminaire Tested: **NAV-SB5C-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-740-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40665.8 lumens
Efficiency: N/A
Efficacy: 163.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - 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

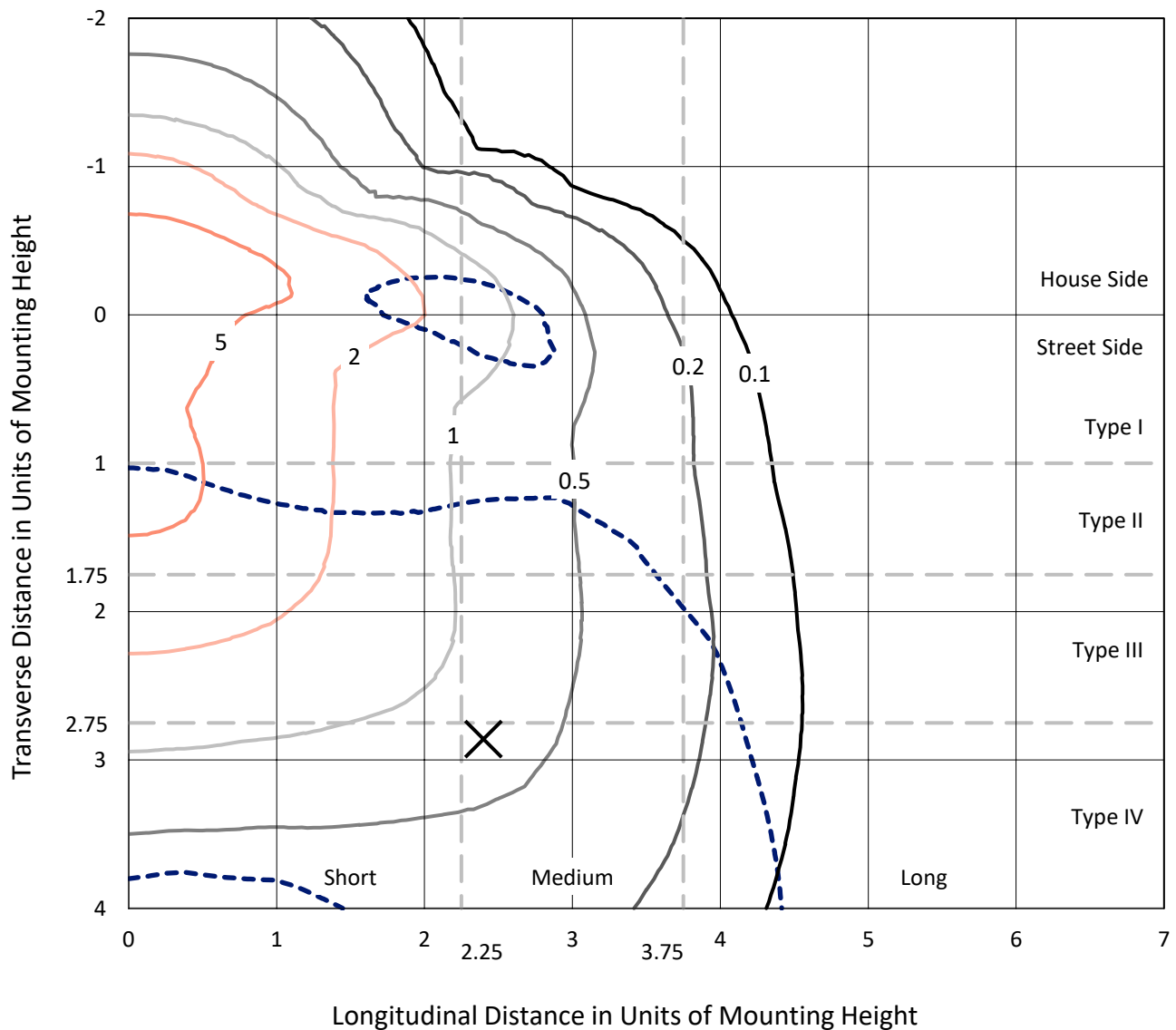


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Iso-Footcandle Lines of Horizontal Illumination

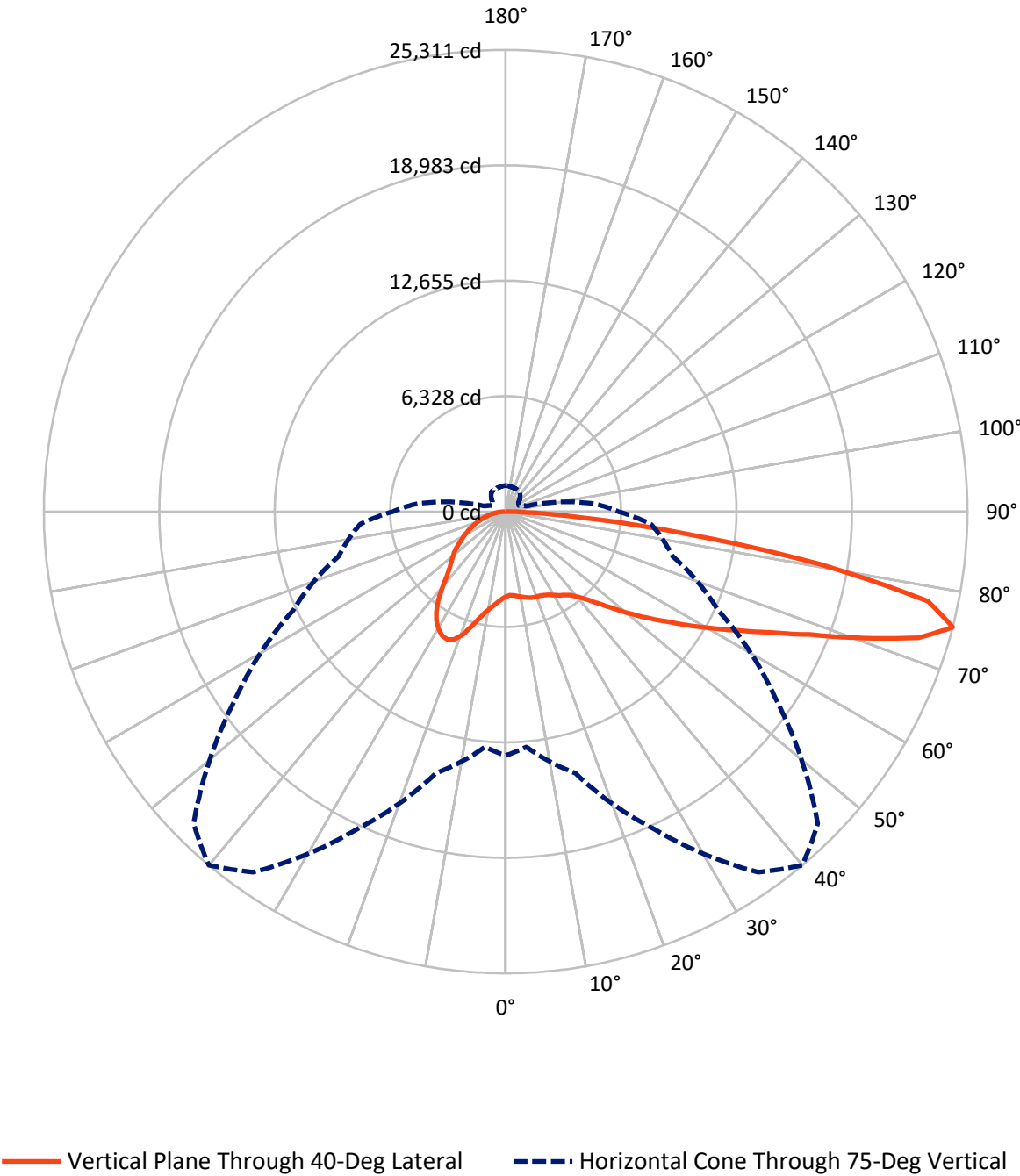
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	12599.6	0.0	12599.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	28066.2	0.0	28066.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	40665.8	0.0	40665.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.2	1.1
10°-20°	1558.5	3.8
20°-30°	2845.6	7.0
30°-40°	4035.9	9.9
40°-50°	5449.6	13.4
50°-60°	7331.2	18.0
60°-70°	9305.0	22.9
70°-80°	8444.9	20.8
80°-90°	1231.0	3.0
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°	40665.8	100.0
0°-180°	40665.8	100.0

Coefficient of Utilization



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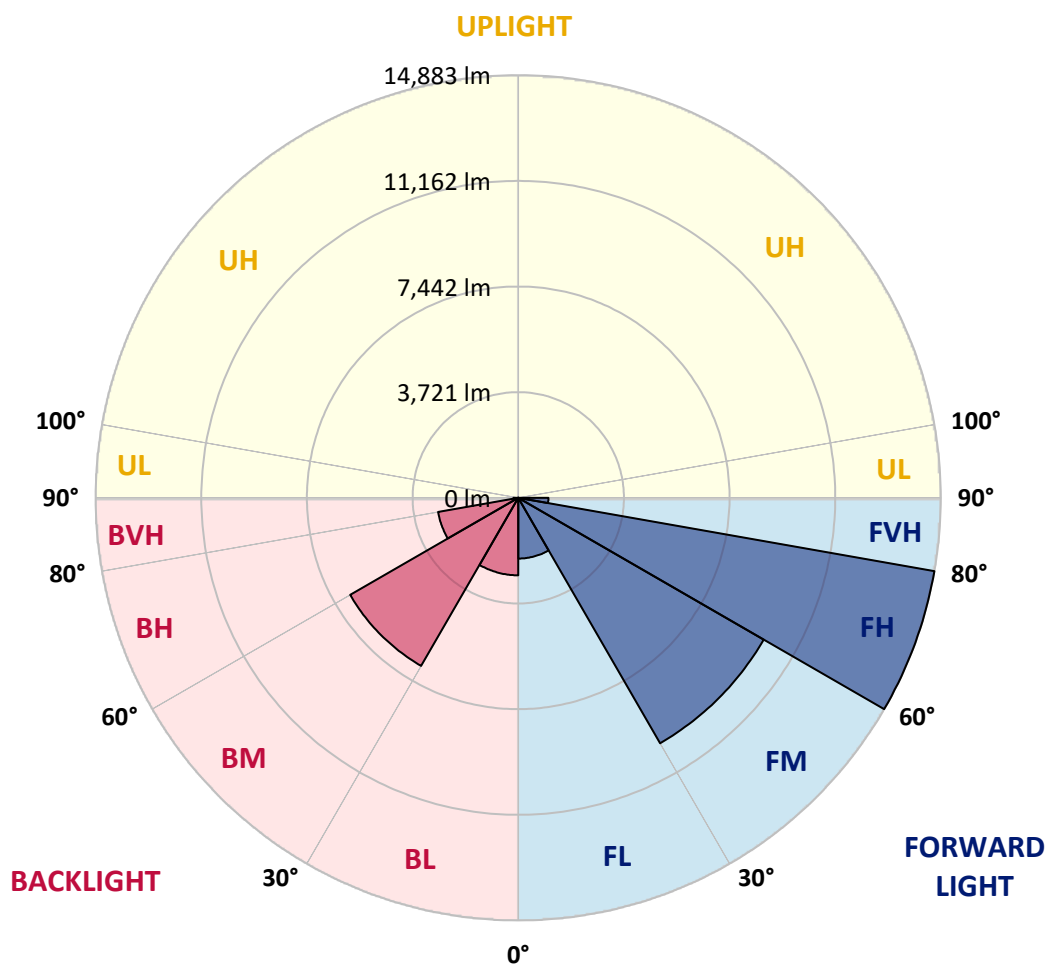
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2139.1	5.3			
FM	(30°-60°)	9982.5	24.5			
FH	(60°-80°)	14883.1	36.6			G5
FVH	(80°-90°)	1061.5	2.6			G5
BL	(0°-30°)	2729.2	6.7	B4/5000		
BM	(30°-60°)	6834.2	16.8	B4/8500		
BH	(60°-80°)	2866.8	7.0	B4/5000		G4/5000
BVH	(80°-90°)	169.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4650.2	4650.2	4650.2	4650.2	4650.2	4650.2	4650.2	4650.2	4650.2	4650.2	4650.2
2.5°	4579.0	4604.9	4598.5	4589.8	4589.8	4592.0	4589.8	4604.9	4620.0	4635.0	4658.8
5°	4626.4	4652.4	4639.5	4628.6	4620.0	4617.8	4611.4	4609.2	4617.8	4637.2	4669.6
7.5°	4719.2	4745.1	4725.7	4706.3	4689.1	4680.4	4671.7	4658.8	4652.4	4663.1	4708.4
10°	4822.7	4848.7	4824.9	4790.4	4762.4	4751.6	4743.0	4730.0	4721.4	4727.8	4777.4
12.5°	4926.3	4952.2	4919.8	4872.3	4835.6	4829.2	4818.4	4814.1	4812.0	4809.8	4859.4
15°	5023.3	5044.9	5003.9	4947.9	4909.0	4898.3	4887.4	4894.0	4904.7	4917.6	4973.7
17.5°	5098.9	5120.4	5060.0	4986.6	4950.0	4945.7	4939.2	4960.8	4990.9	5023.3	5092.3
20°	5167.8	5189.4	5111.8	5012.6	4969.4	4969.4	4971.6	5016.9	5060.0	5107.5	5202.4
22.5°	5264.9	5282.1	5187.2	5051.4	4988.8	4993.2	5010.4	5055.7	5109.6	5174.3	5305.9
25°	5409.4	5422.4	5305.9	5124.7	5053.6	5066.5	5081.5	5103.2	5154.9	5230.4	5407.3
27.5°	5642.3	5653.2	5500.0	5254.2	5146.3	5167.8	5189.4	5174.3	5198.1	5262.8	5489.2
30°	5970.2	5976.7	5782.5	5456.9	5303.8	5314.5	5318.8	5256.3	5211.0	5262.8	5547.4
32.5°	6358.4	6356.2	6125.5	5702.8	5482.7	5472.0	5435.3	5312.4	5206.7	5252.0	5599.2
35°	6960.2	6936.5	6638.8	6047.8	5685.5	5618.6	5532.3	5374.9	5228.2	5241.1	5644.5
37.5°	7956.7	7883.4	7471.3	6612.9	5987.4	5817.1	5689.8	5476.3	5275.7	5236.8	5698.4
40°	9080.4	8987.6	8534.7	7387.3	6440.4	6166.5	5961.6	5620.8	5353.4	5256.3	5778.2
42.5°	10413.3	10281.8	9794.3	8299.6	7014.1	6617.3	6308.8	5804.2	5467.7	5318.8	5886.1
45°	12050.4	11875.6	11185.5	9328.4	7736.7	7208.2	6796.3	6082.3	5642.3	5439.6	6047.8
47.5°	13704.7	13747.8	12766.5	10506.0	8603.7	7937.3	7406.6	6500.8	5896.8	5633.7	6308.8
50°	15462.5	15492.8	14338.8	11811.0	9587.2	8761.2	8092.6	6968.8	6250.6	5909.8	6699.2
52.5°	16834.3	16838.6	15766.7	13176.3	10611.7	9667.1	8832.3	7503.7	6660.3	6276.5	7219.0
55°	17692.7	17682.0	16767.5	14468.2	11789.4	10618.2	9651.9	8112.0	7160.8	6707.8	7872.5
57.5°	18316.0	18283.7	17457.6	15579.0	13044.7	11742.0	10579.4	8802.2	7751.8	7221.1	8733.1
60°	18553.3	18533.9	17925.7	16538.8	14364.7	12984.3	11649.2	9574.3	8422.5	7827.2	9839.6
62.5°	18643.9	18680.6	18385.1	17468.5	15777.4	14360.4	12824.7	10497.4	9177.4	8513.1	11006.4
65°	18963.1	19029.9	18969.6	18684.9	17373.5	15971.6	14384.1	11595.3	10001.3	9248.6	12225.1
67.5°	19595.1	19662.0	19687.8	20140.7	19323.3	17979.6	16329.6	12962.8	10965.4	10012.2	13141.7
70°	19580.0	19560.6	20017.8	21299.0	21764.8	20759.8	18952.4	14645.1	12115.1	10646.3	13258.3
72.5°	17822.2	17666.9	18747.5	21286.1	23796.7	23662.9	22155.3	16814.9	13107.3	10724.0	11504.7
75°	13370.4	12956.3	14865.1	19183.1	24135.3	25310.7	24191.3	18160.7	12872.2	9475.1	8006.3
77.5°	5717.9	5301.6	7551.2	14200.8	21601.0	23660.8	22323.5	15844.3	10275.3	6265.7	3932.0
80°	1496.9	1494.7	2282.0	6438.2	14690.4	17472.8	15328.8	10232.2	5871.0	2238.8	1084.9
82.5°	619.0	603.9	839.1	2504.1	7178.1	9805.0	8002.0	4563.9	2120.2	606.1	360.2
85°	230.8	228.7	407.6	864.9	2532.2	4044.1	2926.9	1166.9	528.4	295.5	161.7
87.5°	64.7	62.5	88.5	299.8	616.8	936.0	500.4	192.0	148.8	116.4	47.5
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°	4650.2	4650.2	4650.2	4650.2	4650.2	4650.2	4650.2	4650.2	4650.2	4650.2	4650.2
2.5°	4665.3	4676.0	4695.5	4710.6	4730.0	4751.6	4781.7	4801.2	4820.6	4833.5	4824.9
5°	4684.7	4708.4	4758.0	4807.7	4865.9	4919.8	4982.3	5027.6	5064.3	5075.1	5079.4
7.5°	4727.8	4766.7	4850.8	4934.9	5027.6	5116.1	5206.7	5284.3	5346.8	5370.6	5372.7
10°	4803.4	4855.1	4973.7	5092.3	5215.3	5351.2	5467.7	5579.8	5668.2	5704.9	5707.1
12.5°	4898.3	4962.9	5118.2	5282.1	5452.6	5640.2	5791.1	5929.2	6039.2	6088.8	6088.8
15°	5021.2	5105.3	5303.8	5523.7	5773.9	6034.9	6226.9	6380.0	6502.9	6563.3	6559.0
17.5°	5154.9	5267.1	5517.3	5849.4	6207.4	6550.4	6774.7	6886.9	7014.1	7072.4	7070.1
20°	5284.3	5422.4	5780.4	6263.6	6740.2	7104.7	7285.9	7316.0	7324.8	7331.2	7348.4
22.5°	5418.0	5603.6	6110.4	6785.5	7296.7	7549.0	7574.9	7445.5	7264.3	7180.2	7203.9
25°	5564.7	5810.6	6541.8	7361.3	7775.4	7805.7	7607.2	7292.4	6949.4	6792.0	6815.6
27.5°	5707.1	6050.0	7059.4	7911.4	8120.6	7855.3	7428.3	6981.8	6567.7	6401.5	6421.0
30°	5849.4	6323.9	7631.0	8392.4	8278.0	7732.4	7145.7	6647.4	6231.2	6056.4	6075.9
32.5°	5993.9	6643.1	8288.9	8739.6	8250.0	7471.3	6794.1	6272.2	5905.5	5722.2	5745.8
35°	6157.8	7035.7	8912.2	8929.4	8062.3	7087.5	6330.4	5823.5	5504.4	5357.7	5390.0
37.5°	6371.4	7534.0	9462.2	8976.8	7734.5	6524.5	5754.6	5292.9	5029.8	4962.9	5010.4
40°	6636.7	8133.5	9882.7	8901.4	7249.2	5840.8	5124.7	4755.9	4607.1	4622.1	4673.9
42.5°	6981.8	8804.3	10178.2	8707.3	6574.1	5135.5	4572.5	4408.6	4479.8	4540.2	4596.3
45°	7430.4	9500.9	10361.5	8377.2	5810.6	4538.1	4246.9	4285.7	4339.6	4346.1	4389.3
47.5°	8004.1	10206.2	10482.4	7879.0	5031.9	4117.4	4039.8	4048.4	4037.7	3992.4	4026.8
50°	8720.2	10892.2	10590.2	7219.0	4369.8	3854.3	3750.8	3720.5	3571.7	3425.1	3444.5
52.5°	9535.5	11521.9	10635.5	6399.4	3854.3	3634.3	3466.0	3276.3	2998.0	2952.7	2967.9
55°	10441.4	12104.3	10519.1	5392.1	3420.7	3351.7	3097.2	2868.7	2838.4	2799.6	2806.0
57.5°	11524.1	12731.9	10281.8	4268.4	2976.5	3021.8	2773.8	2799.6	2745.7	2685.3	2674.5
60°	12708.3	13381.2	9865.5	3243.9	2517.1	2609.8	2689.6	2687.4	2672.4	2622.8	2605.4
62.5°	13773.7	13808.2	9045.8	2484.7	2113.8	2290.6	2508.4	2506.2	2493.3	2465.3	2454.5
65°	14407.8	13743.5	7678.4	1956.3	1781.6	2027.4	2262.6	2279.8	2282.0	2279.8	2279.8
67.5°	14295.7	12986.4	5801.9	1557.3	1507.7	1760.0	2018.8	2042.5	2059.8	2064.1	2068.4
70°	13027.4	11323.5	3783.2	1242.4	1263.9	1524.9	1788.0	1811.8	1826.9	1844.1	1852.8
72.5°	10154.5	8325.5	2165.5	1005.1	1050.4	1322.1	1559.4	1587.4	1596.0	1628.4	1641.3
75°	6188.0	4896.1	1169.0	791.6	862.7	1130.2	1332.9	1365.3	1380.4	1419.2	1423.5
77.5°	2942.0	2120.2	666.5	616.8	694.5	923.1	1125.9	1162.6	1121.6	1143.2	1125.9
80°	994.4	787.3	420.6	470.2	530.5	720.4	901.6	938.3	852.0	847.7	839.1
82.5°	347.3	319.2	267.4	312.7	343.0	515.5	681.5	729.0	634.2	631.9	601.8
85°	135.9	129.5	148.8	170.4	204.9	317.0	448.6	472.3	390.4	314.9	310.6
87.5°	28.1	30.2	36.7	38.8	62.5	110.0	161.7	198.4	157.4	133.8	122.9
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)