

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: P970885

Luminaire Tested: **NAV-SB6C-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970885
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-SB6C-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 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: 46143.4 lumens
Efficiency: N/A
Efficacy: 153.4 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): 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

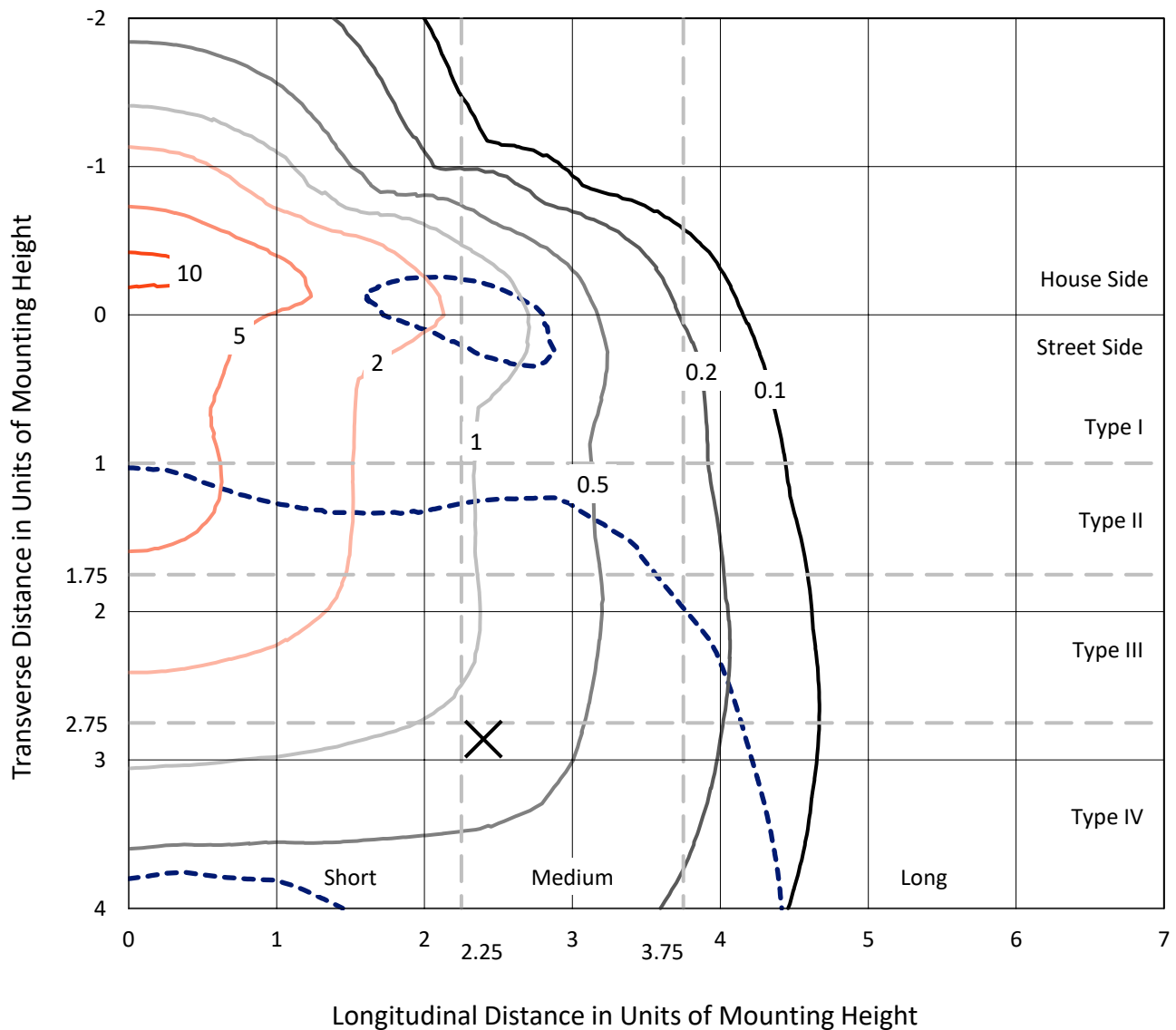


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Iso-Footcandle Lines of Horizontal Illumination

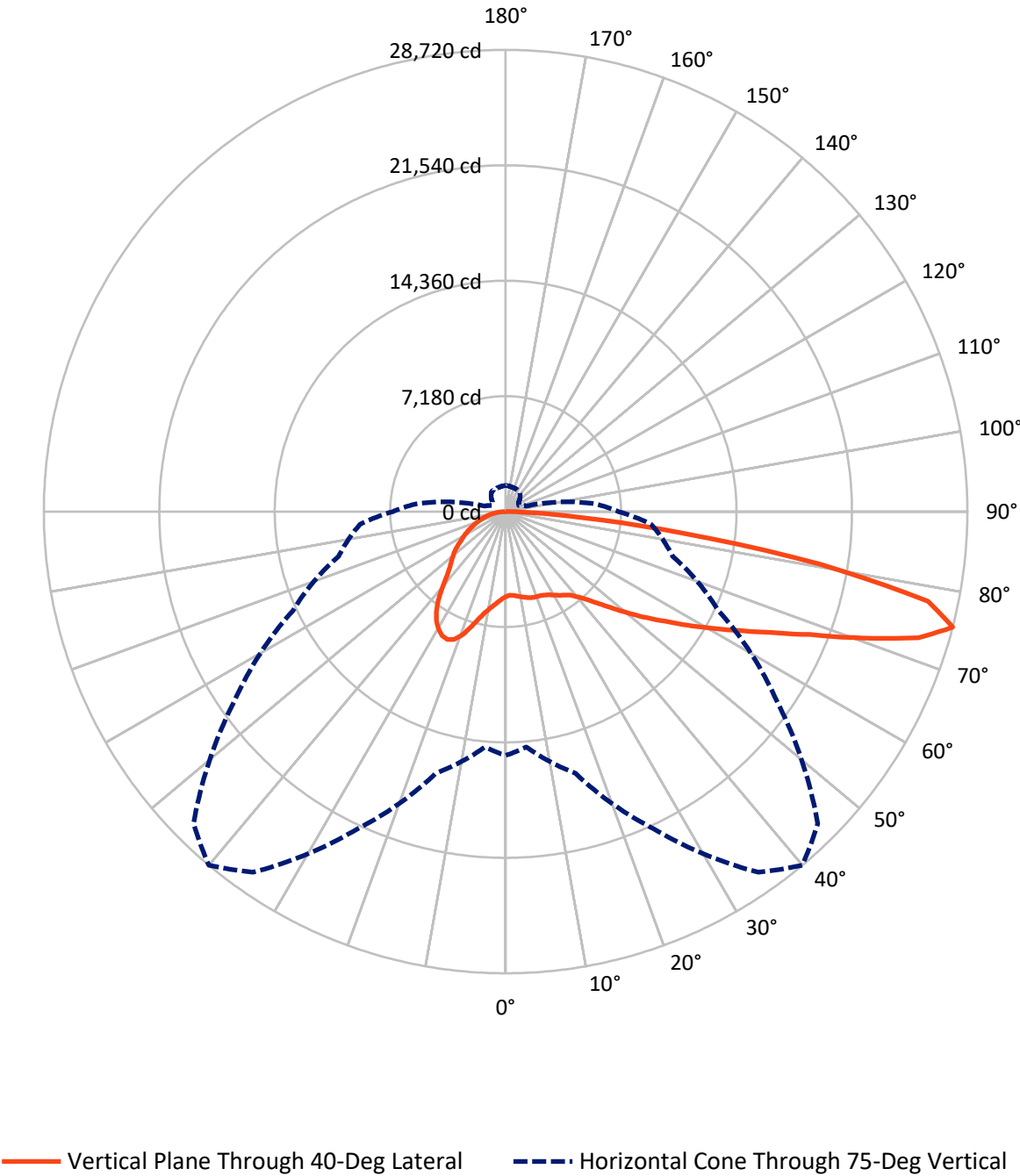
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	14296.8	0.0	14296.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	31846.7	0.0	31846.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	46143.4	0.0	46143.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.7	1.1
10°-20°	1768.4	3.8
20°-30°	3228.9	7.0
30°-40°	4579.5	9.9
40°-50°	6183.7	13.4
50°-60°	8318.7	18.0
60°-70°	10558.4	22.9
70°-80°	9582.4	20.8
80°-90°	1396.8	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°	46143.4	100.0
0°-180°	46143.4	100.0

Coefficient of Utilization



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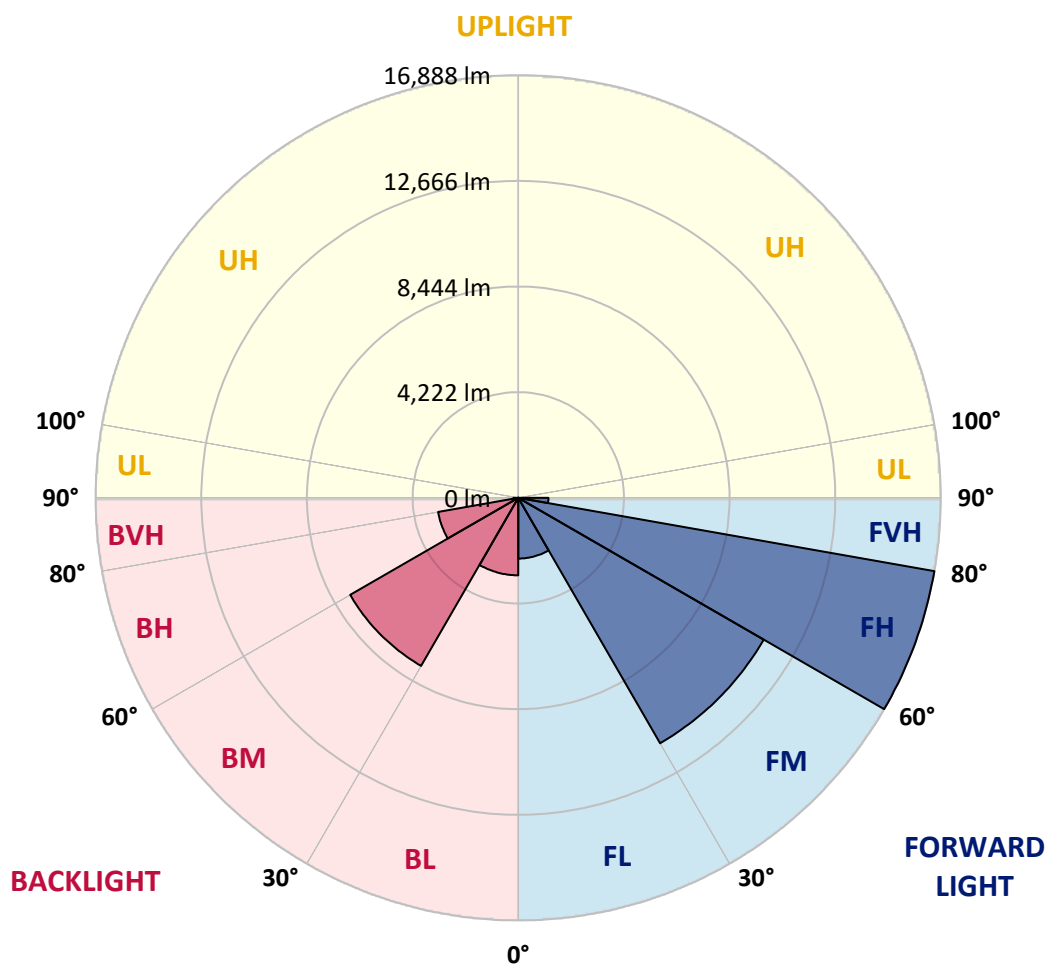
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2427.2	5.3			
FM	(30°-60°)	11327.2	24.5			
FH	(60°-80°)	16887.8	36.6			G5
FVH	(80°-90°)	1204.5	2.6			G5
BL	(0°-30°)	3096.8	6.7	B4/5000		
BM	(30°-60°)	7754.7	16.8	B4/8500		
BH	(60°-80°)	3252.9	7.0	B4/5000		G4/5000
BVH	(80°-90°)	192.3	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°	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6
2.5°	5195.8	5225.1	5217.9	5208.0	5208.0	5210.5	5208.0	5225.1	5242.3	5259.5	5286.3
5°	5249.6	5279.1	5264.3	5252.1	5242.3	5239.9	5232.5	5230.1	5239.9	5261.8	5298.6
7.5°	5354.9	5384.2	5362.2	5340.1	5320.6	5310.8	5301.0	5286.3	5279.1	5291.3	5342.6
10°	5472.4	5501.7	5474.8	5435.7	5403.8	5391.6	5381.8	5367.1	5357.4	5364.6	5420.9
12.5°	5589.8	5619.2	5582.5	5528.6	5487.0	5479.6	5467.5	5462.5	5460.1	5457.7	5514.0
15°	5699.9	5724.4	5678.0	5614.3	5570.3	5558.1	5545.8	5553.1	5565.3	5580.0	5643.6
17.5°	5785.6	5810.1	5741.5	5658.3	5616.8	5611.9	5604.5	5629.0	5663.2	5699.9	5778.2
20°	5863.9	5888.4	5800.3	5687.7	5638.7	5638.7	5641.2	5692.6	5741.5	5795.5	5903.1
22.5°	5974.1	5993.7	5886.0	5731.8	5660.8	5665.7	5685.3	5736.7	5797.8	5871.3	6020.5
25°	6138.0	6152.8	6020.5	5815.0	5734.3	5748.9	5766.0	5790.5	5849.3	5935.0	6135.5
27.5°	6402.4	6414.6	6240.8	5961.8	5839.4	5863.9	5888.4	5871.3	5898.2	5971.6	6228.6
30°	6774.3	6781.7	6561.4	6191.9	6018.1	6030.4	6035.3	5964.3	5912.9	5971.6	6294.6
32.5°	7214.9	7212.4	6950.6	6470.9	6221.2	6209.0	6167.4	6027.9	5908.0	5959.3	6353.5
35°	7897.7	7870.8	7533.0	6862.5	6451.3	6375.4	6277.5	6098.9	5932.5	5947.2	6404.8
37.5°	9028.4	8945.2	8477.8	7503.7	6793.9	6600.6	6456.2	6214.0	5986.3	5942.2	6466.0
40°	10303.5	10198.2	9684.3	8382.3	7307.9	6997.1	6764.6	6377.9	6074.5	5964.3	6556.5
42.5°	11816.0	11666.7	11113.6	9417.5	7958.9	7508.5	7158.6	6585.9	6204.1	6035.3	6678.9
45°	13673.5	13475.3	12692.2	10585.0	8778.8	8179.2	7711.7	6901.6	6402.4	6172.3	6862.5
47.5°	15550.7	15599.7	14486.1	11921.3	9762.6	9006.4	8404.3	7376.4	6691.2	6392.6	7158.6
50°	17545.3	17579.6	16270.2	13401.9	10878.6	9941.3	9182.6	7907.5	7092.5	6705.9	7601.6
52.5°	19101.9	19106.7	17890.4	14951.1	12041.2	10969.1	10022.0	8514.5	7557.5	7121.9	8191.4
55°	20076.0	20063.7	19025.9	16417.1	13377.4	12048.5	10952.0	9204.6	8125.3	7611.3	8933.0
57.5°	20783.2	20746.5	19809.1	17677.5	14801.8	13323.6	12004.4	9987.8	8795.9	8193.8	9909.5
60°	21052.4	21030.4	20340.2	18766.5	16299.6	14733.2	13218.3	10864.0	9557.0	8881.5	11165.0
62.5°	21155.2	21196.8	20861.5	19821.3	17902.6	16294.7	14552.1	11911.4	10413.6	9659.8	12489.0
65°	21517.4	21593.3	21524.8	21201.7	19713.7	18122.9	16321.6	13157.1	11348.5	10494.4	13871.7
67.5°	22234.5	22310.4	22339.8	22853.7	21926.2	20401.4	18529.1	14708.7	12442.5	11360.8	14911.9
70°	22217.4	22195.4	22714.2	24168.0	24696.6	23556.1	21505.2	16617.7	13747.0	12080.3	15044.1
72.5°	20222.7	20046.5	21272.6	24153.3	27002.0	26850.3	25139.6	19079.9	14872.7	12168.4	13054.4
75°	15171.3	14701.5	16867.4	21767.1	27386.3	28720.1	27449.9	20607.0	14606.0	10751.3	9084.7
77.5°	6488.0	6015.7	8568.3	16113.6	24510.6	26847.8	25330.4	17978.5	11659.4	7109.7	4461.6
80°	1698.5	1696.1	2589.4	7305.5	16669.2	19826.3	17393.5	11610.4	6661.8	2540.4	1231.0
82.5°	702.4	685.3	952.0	2841.4	8144.9	11125.9	9079.8	5178.7	2405.8	687.7	408.7
85°	261.9	259.4	462.6	981.4	2873.3	4588.8	3321.1	1324.0	599.6	335.3	183.6
87.5°	73.4	70.9	100.3	340.2	700.0	1062.2	567.7	217.8	168.9	132.1	53.8
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°	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6	5276.6
2.5°	5293.7	5305.9	5328.0	5345.1	5367.1	5391.6	5425.8	5447.9	5469.9	5484.6	5474.8
5°	5315.8	5342.6	5399.0	5455.3	5521.3	5582.5	5653.5	5704.8	5746.5	5758.7	5763.6
7.5°	5364.6	5408.7	5504.1	5599.6	5704.8	5805.2	5908.0	5996.1	6067.1	6094.0	6096.4
10°	5450.3	5509.1	5643.6	5778.2	5917.7	6072.0	6204.1	6331.4	6431.8	6473.4	6475.7
12.5°	5558.1	5631.5	5807.6	5993.7	6187.0	6399.9	6571.3	6727.9	6852.6	6909.0	6909.0
15°	5697.6	5793.0	6018.1	6267.8	6551.7	6847.8	7065.6	7239.4	7378.9	7447.4	7442.5
17.5°	5849.3	5976.5	6260.4	6637.3	7043.6	7432.7	7687.2	7814.5	7958.9	8024.9	8022.6
20°	5996.1	6152.8	6559.0	7107.2	7648.0	8061.7	8267.2	8301.6	8311.3	8318.7	8338.3
22.5°	6147.8	6358.3	6933.4	7699.5	8279.5	8565.8	8595.2	8448.4	8242.8	8147.3	8174.3
25°	6314.3	6593.2	7422.9	8352.9	8822.8	8857.1	8631.9	8274.6	7885.5	7706.8	7733.7
27.5°	6475.7	6864.9	8010.3	8977.1	9214.4	8913.4	8428.8	7922.2	7452.3	7263.9	7285.9
30°	6637.3	7175.7	8658.9	9522.8	9393.1	8773.9	8108.2	7542.9	7070.4	6872.2	6894.3
32.5°	6801.3	7538.0	9405.3	9916.8	9361.2	8477.8	7709.2	7117.0	6700.9	6493.0	6519.8
35°	6987.3	7983.4	10112.6	10132.2	9148.3	8042.2	7183.1	6608.0	6245.7	6079.3	6116.0
37.5°	7229.5	8548.7	10736.7	10186.0	8776.4	7403.4	6529.7	6005.9	5707.3	5631.5	5685.3
40°	7530.6	9229.1	11213.9	10100.3	8225.6	6627.5	5815.0	5396.5	5227.6	5244.7	5303.5
42.5°	7922.2	9990.3	11549.2	9880.1	7459.6	5827.2	5188.4	5002.4	5083.2	5151.8	5215.4
45°	8431.2	10780.7	11757.3	9505.6	6593.2	5149.3	4818.9	4862.9	4924.1	4931.5	4980.5
47.5°	9082.2	11581.1	11894.3	8940.3	5709.8	4672.1	4584.0	4593.7	4581.5	4530.1	4569.2
50°	9894.7	12359.3	12016.7	8191.4	4958.4	4373.5	4256.0	4221.8	4052.8	3886.5	3908.4
52.5°	10819.9	13074.0	12068.0	7261.4	4373.5	4123.9	3932.9	3717.6	3401.9	3350.5	3367.6
55°	11847.8	13734.7	11935.9	6118.4	3881.6	3803.3	3514.4	3255.0	3220.8	3176.7	3184.1
57.5°	13076.3	14447.0	11666.7	4843.3	3377.4	3428.8	3147.4	3176.7	3115.5	3047.0	3034.7
60°	14420.0	15183.6	11194.3	3680.9	2856.1	2961.3	3051.9	3049.5	3032.4	2976.0	2956.4
62.5°	15629.0	15668.1	10264.3	2819.4	2398.4	2599.1	2846.3	2843.9	2829.2	2797.3	2785.1
65°	16348.5	15594.8	8712.7	2219.7	2021.5	2300.5	2567.3	2586.9	2589.4	2586.9	2586.9
67.5°	16221.2	14735.7	6583.5	1767.0	1710.7	1997.1	2290.8	2317.6	2337.2	2342.1	2347.0
70°	14782.2	12848.8	4292.7	1409.7	1434.2	1730.3	2028.9	2055.8	2073.0	2092.5	2102.3
72.5°	11522.3	9446.9	2457.1	1140.5	1191.9	1500.3	1769.5	1801.2	1811.1	1847.8	1862.4
75°	7021.6	5555.6	1326.5	898.2	979.0	1282.5	1512.5	1549.2	1566.3	1610.4	1615.3
77.5°	3338.2	2405.8	756.2	700.0	788.0	1047.4	1277.6	1319.2	1272.6	1297.1	1277.6
80°	1128.2	893.3	477.2	533.5	602.1	817.4	1023.1	1064.6	966.7	961.9	952.0
82.5°	394.0	362.2	303.5	354.9	389.1	585.0	773.4	827.2	719.6	717.1	682.9
85°	154.2	146.9	168.9	193.3	232.5	359.8	509.0	536.0	443.0	357.3	352.4
87.5°	31.8	34.2	41.6	44.1	70.9	124.8	183.6	225.2	178.7	151.7	139.5
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)