

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: P970899

Luminaire Tested: **NAV-SB6C-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47787.5 lumens
Efficiency: N/A
Efficacy: 158.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - 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



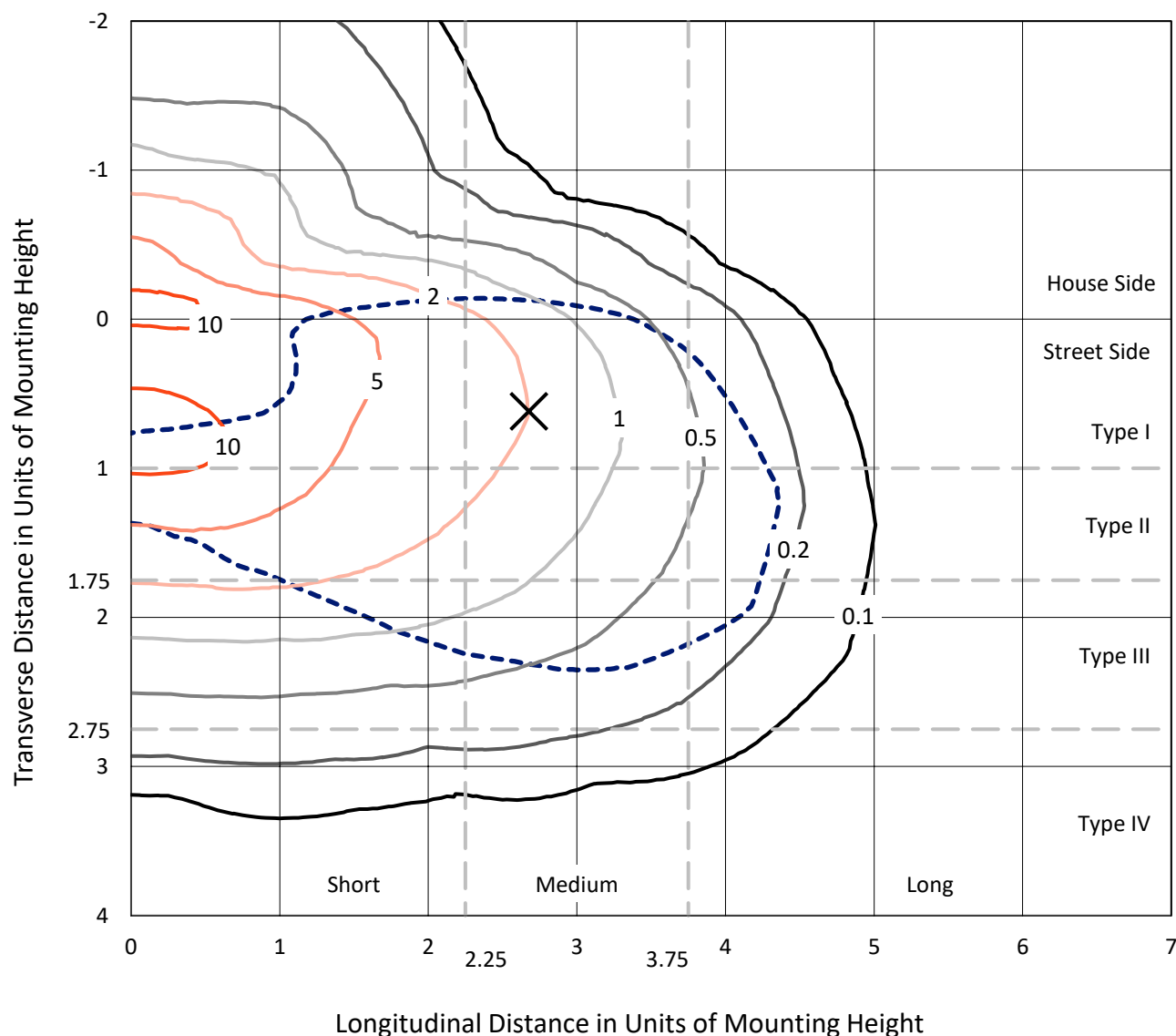
REPORT NUMBER: P970899

CATALOG NUMBER: NAV-SB6C-735-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

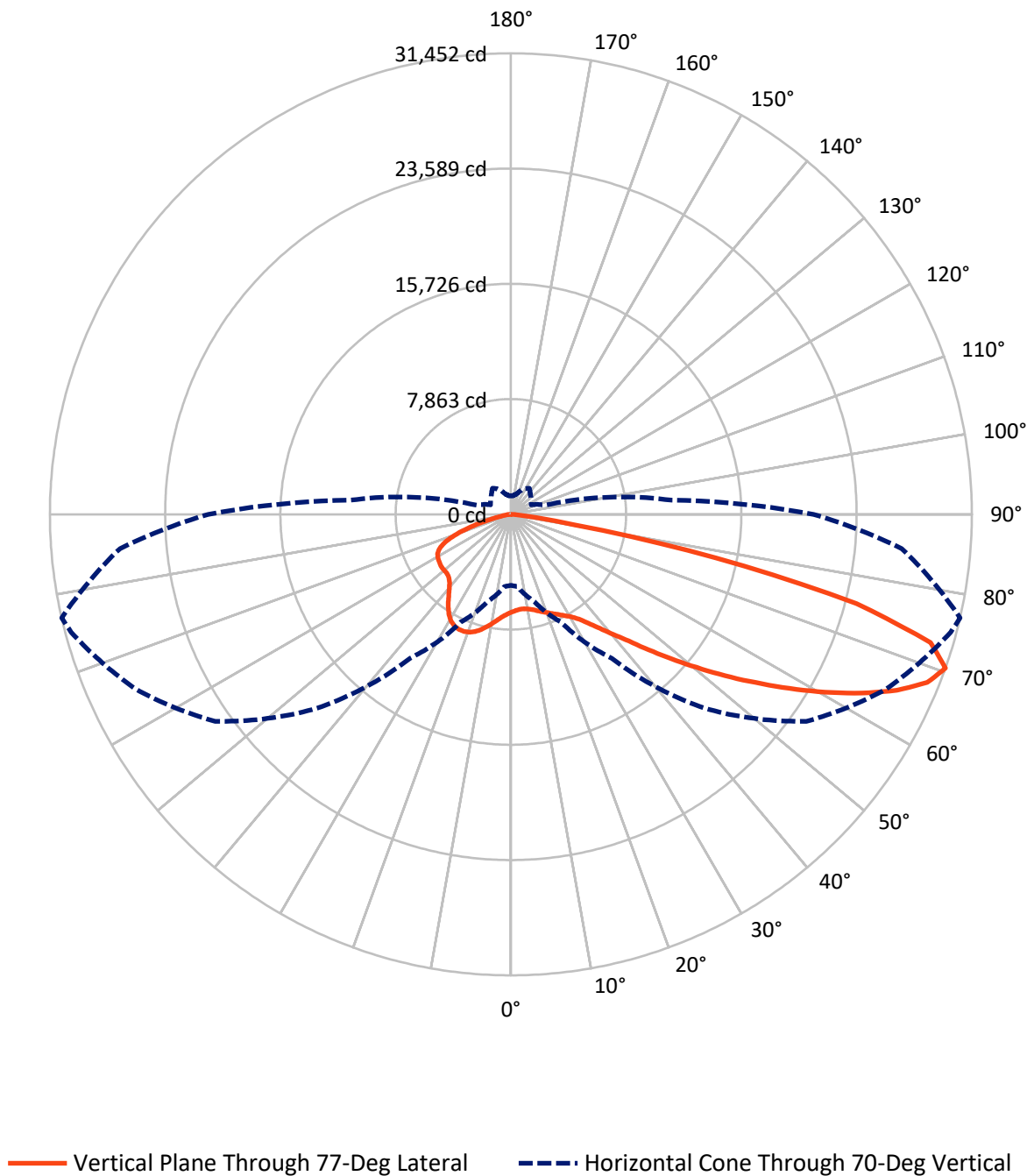


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc

Type III - Medium - N/A

REPORT NUMBER: P970899
CATALOG NUMBER: NAV-SB6C-735-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P970899

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10464.7	0.0	10464.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	37322.8	0.0	37322.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	47787.5	0.0	47787.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.8	1.3
10°-20°	1835.1	3.8
20°-30°	3138.2	6.6
30°-40°	5046.6	10.6
40°-50°	7879.1	16.5
50°-60°	10524.6	22.0
60°-70°	11217.6	23.5
70°-80°	6905.5	14.5
80°-90°	605.1	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°	47787.5	100.0
0°-180°	47787.5	100.0

Coefficient of Utilization



REPORT NUMBER: P970899

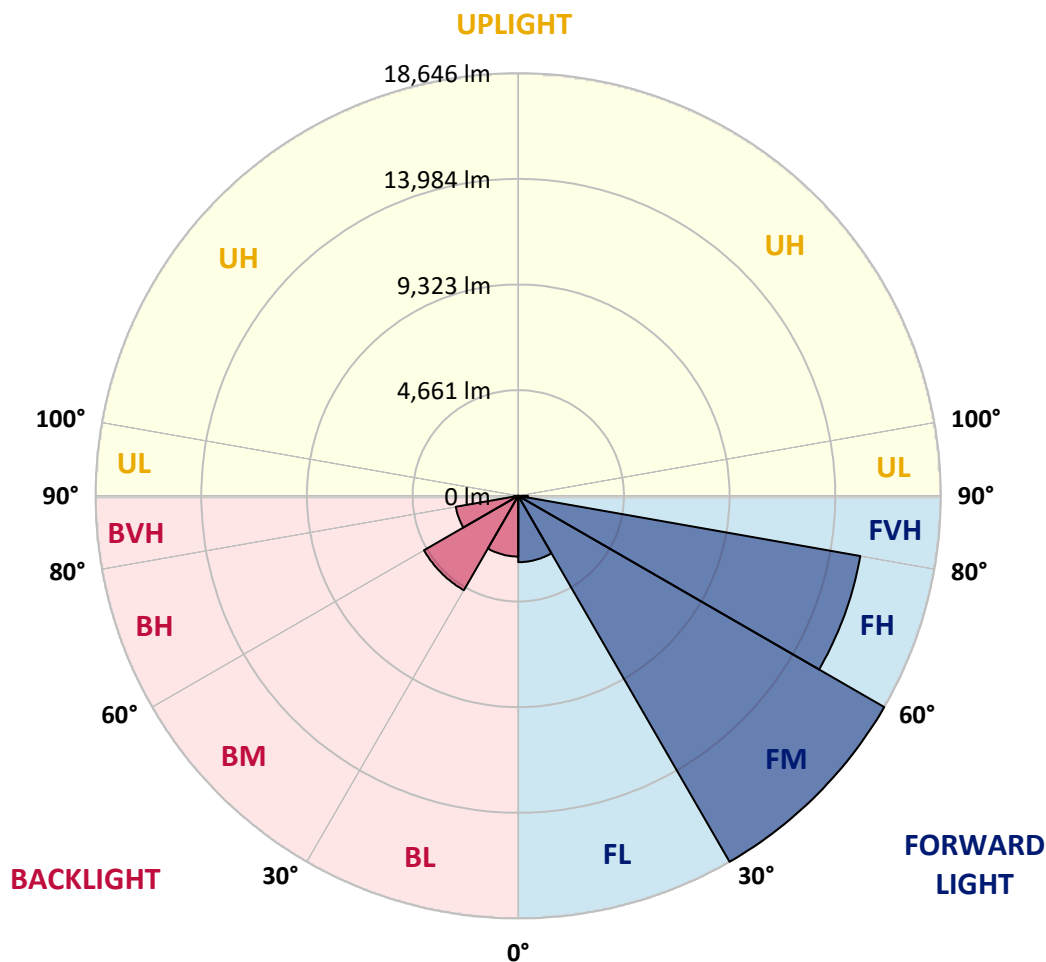
CATALOG NUMBER: NAV-SB6C-735-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2927.8	6.1			
FM	(30°-60°)	18645.7	39.0			
FH	(60°-80°)	15326.3	32.1			G5
FVH	(80°-90°)	423.1	0.9			G3/500
BL	(0°-30°)	2681.4	5.6	B4/5000		
BM	(30°-60°)	4804.6	10.1	B3/5000		
BH	(60°-80°)	2796.8	5.9	B4/5000		G4/5000
BVH	(80°-90°)	182.0	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 III Medium



REPORT NUMBER: P970899

CATALOG NUMBER: NAV-SB6C-735-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6666.8	6666.8	6666.8	6666.8	6666.8	6666.8	6666.8	6666.8	6666.8	6666.8	6666.8
2.5°	6145.5	6143.0	6174.9	6184.6	6243.4	6285.0	6363.3	6446.5	6554.3	6566.5	6632.6
5°	5790.6	5790.6	5827.3	5866.5	5942.3	6025.6	6145.5	6289.9	6476.0	6505.3	6669.3
7.5°	5489.6	5509.2	5540.9	5616.9	5704.9	5824.9	6008.4	6214.1	6458.7	6505.3	6769.6
10°	5247.3	5269.3	5308.5	5369.7	5501.8	5668.2	5908.1	6172.4	6500.3	6573.8	6916.4
12.5°	5171.4	5193.5	5215.5	5261.9	5384.3	5580.1	5866.5	6192.0	6600.7	6674.2	7117.1
15°	5347.6	5374.6	5357.5	5345.2	5408.8	5587.5	5886.1	6263.0	6725.5	6830.8	7364.3
17.5°	5753.9	5763.7	5724.5	5609.5	5599.7	5695.2	5979.0	6360.8	6882.2	6997.2	7613.9
20°	6409.8	6392.7	6312.0	6084.3	5954.6	5935.1	6138.1	6507.7	7043.7	7166.1	7883.2
22.5°	7300.7	7281.1	7119.5	6759.8	6471.0	6280.1	6368.2	6698.6	7224.8	7361.9	8145.1
25°	8411.9	8384.9	8147.5	7658.0	7210.2	6737.7	6681.5	6950.7	7447.5	7574.7	8419.1
27.5°	9709.0	9687.0	9429.9	8783.8	8137.7	7364.3	7070.7	7246.9	7680.0	7824.4	8727.6
30°	11104.0	11167.6	10712.4	10017.3	9199.9	8181.8	7594.3	7611.5	7981.1	8110.8	9102.0
32.5°	12743.7	12853.9	12305.6	11424.6	10308.5	9070.2	8255.1	8120.6	8419.1	8526.9	9574.3
35°	14368.9	14493.7	14038.5	13064.3	11779.5	10117.7	8945.4	8705.5	9001.7	9119.1	10200.9
37.5°	15773.7	15940.1	15705.2	14858.3	13353.2	11380.6	9846.0	9393.2	9718.7	9865.6	11042.8
40°	16882.4	17136.9	17119.8	16591.2	15208.3	12912.6	10988.9	10242.5	10609.6	10768.6	12063.4
42.5°	17783.0	18003.3	18194.2	18167.3	17144.3	14652.8	12332.6	11346.2	11625.2	11808.8	13211.2
45°	18404.7	18639.6	19050.8	19493.8	19006.8	16515.2	13872.0	12655.7	12910.2	13186.7	14579.3
47.5°	18960.2	19227.1	19760.6	20463.0	20587.7	18385.1	15558.3	14180.4	14412.9	14699.2	15952.4
50°	19009.1	19239.2	20066.5	21062.6	21711.1	20181.5	17369.4	15891.2	16109.0	16414.9	17423.3
52.5°	17827.1	18189.3	19633.3	21045.4	22227.5	21684.2	19168.3	17670.5	17915.2	18282.3	18945.6
55°	13837.8	14368.9	18363.1	20389.5	22044.0	22655.9	20879.0	19562.3	19875.6	20259.8	20477.7
57.5°	11919.0	12151.5	14576.9	19195.2	21206.9	22907.9	22323.0	21473.7	21977.9	22398.9	22097.9
60°	10712.4	10905.8	12340.0	17337.6	20105.7	22509.0	23439.1	23255.5	24126.8	24628.5	23754.8
62.5°	9420.2	9603.7	10908.2	14476.6	18695.9	21845.7	24143.9	24900.1	26329.5	26877.7	25316.2
65°	8137.7	8294.3	9545.0	12163.8	16904.4	21182.5	24508.6	26322.1	28368.2	28936.0	26613.3
67.5°	6708.4	6838.1	8020.2	10262.1	14726.2	20274.5	24689.7	27440.6	30142.6	30629.6	27254.5
70°	4841.0	4941.3	6162.6	8115.6	11992.4	18713.0	24616.3	28233.5	31062.8	31451.9	26770.0
72.5°	2288.3	2378.9	3813.1	5269.3	8470.6	15673.4	23130.7	27604.6	30127.8	29934.5	23803.7
75°	1221.3	1299.6	2190.4	2890.4	4473.9	10744.3	18928.5	23779.2	25299.0	24359.2	17592.2
77.5°	827.3	888.4	1355.9	1735.2	2043.6	5100.4	12166.1	16463.9	15839.7	14288.1	8810.8
80°	655.9	719.6	1111.1	1174.8	988.7	1843.0	5027.0	7621.3	5474.9	4378.5	2506.1
82.5°	504.2	575.1	934.9	851.7	538.4	756.2	1463.6	2410.7	1402.4	1067.1	607.0
85°	308.4	384.3	734.2	543.4	303.5	345.1	496.8	670.6	428.3	357.3	217.8
87.5°	156.6	220.3	372.0	198.2	137.0	80.8	132.1	132.1	112.5	97.9	56.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P970899

CATALOG NUMBER: NAV-SB6C-735-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6666.8	6666.8	6666.8	6666.8	6666.8	6666.8	6666.8	6666.8	6666.8	6666.8	6666.8
2.5°	6691.3	6740.2	6823.4	6901.7	6962.9	7021.7	7080.4	7112.3	7122.0	7161.2	7183.2
5°	6769.6	6860.1	7021.7	7173.5	7268.9	7327.6	7369.2	7393.7	7398.6	7410.9	7430.4
7.5°	6914.0	7058.4	7283.5	7435.2	7506.3	7501.4	7484.2	7423.0	7398.6	7376.5	7381.4
10°	7117.1	7308.0	7584.6	7689.9	7645.8	7528.3	7376.5	7197.9	7114.7	7034.0	7009.5
12.5°	7369.2	7611.5	7883.2	7878.3	7660.4	7359.4	7007.0	6732.9	6559.1	6434.3	6404.9
15°	7675.1	7954.1	8162.2	7995.7	7518.5	6977.6	6461.2	6103.9	5947.3	5810.2	5795.6
17.5°	7990.9	8289.5	8384.9	7959.0	7161.2	6412.3	5827.3	5545.9	5391.7	5318.3	5340.2
20°	8299.2	8595.3	8517.0	7748.6	6617.8	5771.1	5249.7	5095.6	5063.7	5080.8	5073.5
22.5°	8624.8	8889.1	8544.0	7342.3	5925.2	5115.2	4828.8	4833.7	4904.6	4956.1	4968.3
25°	8957.6	9136.2	8473.0	6755.0	5181.2	4633.0	4562.0	4640.3	4779.8	4880.1	4907.1
27.5°	9278.2	9356.5	8318.8	6028.0	4542.4	4287.9	4300.2	4461.6	4672.2	4811.7	4845.9
30°	9640.4	9552.3	8022.7	5210.6	4099.5	3991.8	4094.6	4283.0	4493.5	4618.3	4647.7
32.5°	10049.1	9721.2	7552.8	4454.3	3786.1	3754.4	3923.2	4045.6	4138.6	4175.3	4194.9
35°	10558.2	9958.6	6950.7	3923.2	3504.7	3580.6	3742.1	3681.0	3644.2	3624.6	3644.2
37.5°	11219.0	10279.2	6245.8	3578.2	3277.1	3455.8	3521.9	3330.9	3186.5	3115.6	3132.7
40°	12014.4	10749.1	5567.9	3311.4	3132.7	3348.1	3233.1	3003.0	2819.5	2719.1	2726.4
42.5°	12898.0	11241.1	4997.7	3110.7	3051.9	3260.0	3020.2	2746.0	2449.9	2418.1	2449.9
45°	13825.5	11747.6	4608.5	2956.5	3012.8	3184.1	2897.8	2454.8	2244.3	2374.0	2442.6
47.5°	14753.1	12212.7	4373.6	2841.5	2993.2	3098.5	2790.0	2293.2	2144.0	2332.4	2420.5
50°	15785.9	12628.7	4268.3	2758.3	2971.2	3064.1	2628.5	2251.6	2038.7	2163.6	2256.5
52.5°	16811.4	12951.8	4190.0	2675.0	2939.4	3037.3	2550.2	2202.7	1911.4	1918.8	1970.2
55°	17834.4	13162.2	4104.3	2564.9	2868.4	2978.5	2542.9	2148.8	1816.0	1781.8	1806.2
57.5°	18926.0	13282.2	3999.1	2442.6	2746.0	2829.2	2535.5	2107.2	1786.6	1730.3	1737.7
60°	20037.1	13458.5	3862.0	2293.2	2582.1	2650.5	2518.4	2092.5	1769.5	1674.0	1681.4
62.5°	21033.2	13519.6	3698.1	2151.3	2371.5	2474.4	2481.7	2080.3	1723.0	1559.0	1559.0
65°	21686.6	13255.3	3411.7	1989.7	2144.0	2293.2	2410.7	2038.7	1639.8	1475.8	1475.8
67.5°	21659.8	12501.5	2963.8	1781.8	1923.7	2092.5	2307.9	1967.7	1539.4	1373.0	1380.4
70°	20651.4	11013.4	2396.0	1539.4	1681.4	1877.2	2175.8	1862.5	1419.5	1260.4	1275.1
72.5°	17712.0	8619.8	1740.1	1255.5	1399.9	1654.5	2004.5	1735.2	1297.1	1160.1	1152.7
75°	12653.2	5455.4	1179.7	964.3	1089.1	1402.4	1791.5	1586.0	1184.6	1165.0	1098.9
77.5°	6463.6	2606.5	780.7	704.9	758.7	1106.3	1505.2	1417.1	1201.7	961.9	856.6
80°	2102.4	961.9	491.9	479.7	504.2	736.7	1165.0	1162.6	910.4	653.4	577.6
82.5°	670.6	413.6	320.6	308.4	296.1	462.6	812.5	920.2	614.3	413.6	411.1
85°	266.8	247.2	188.5	173.7	124.8	217.8	425.9	611.8	457.7	298.6	306.0
87.5°	97.9	97.9	51.4	36.7	27.0	73.4	115.0	183.6	261.9	154.2	151.7
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)