

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: P970896

Luminaire Tested: **NAV-SB6C-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46124 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

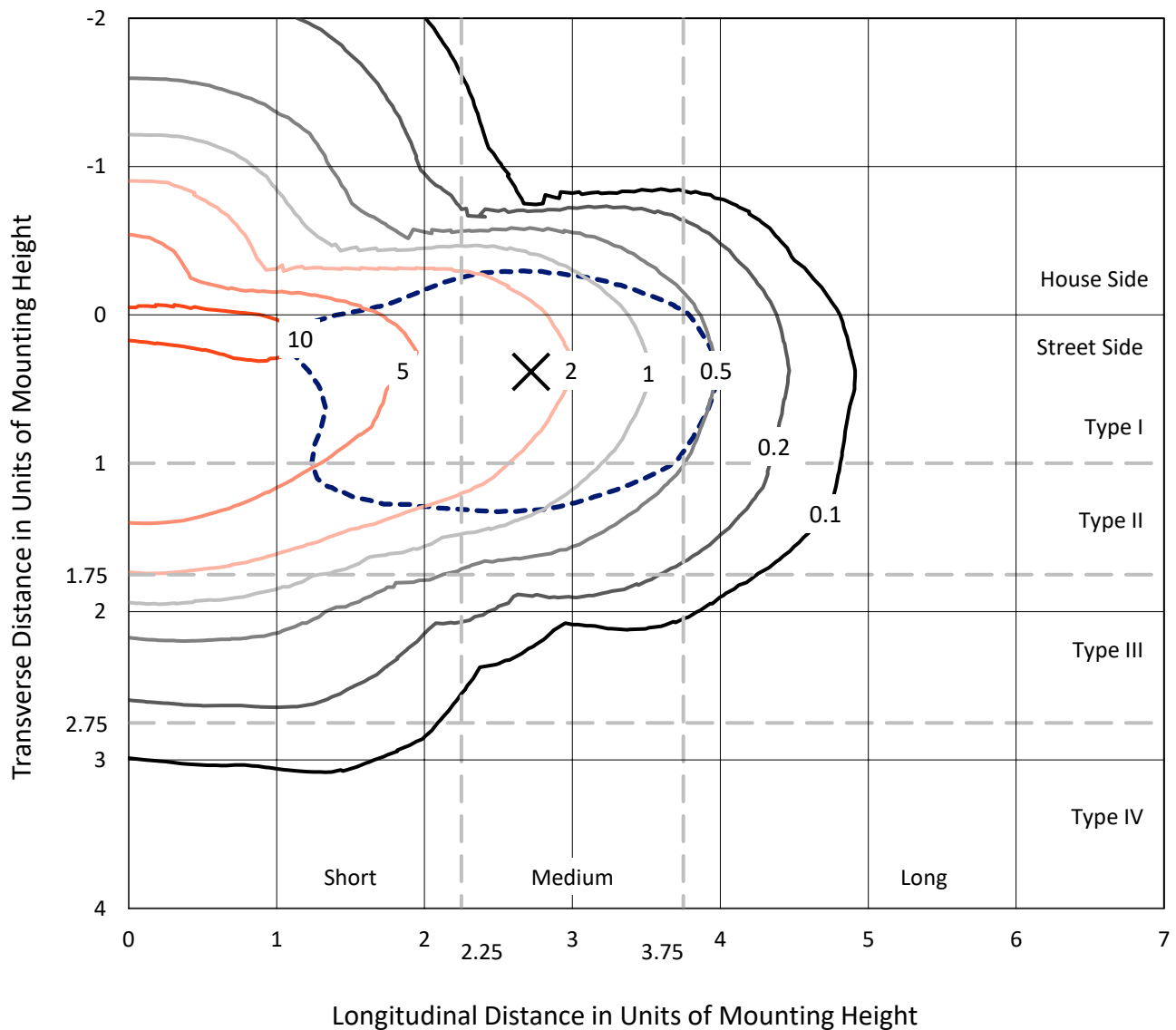
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

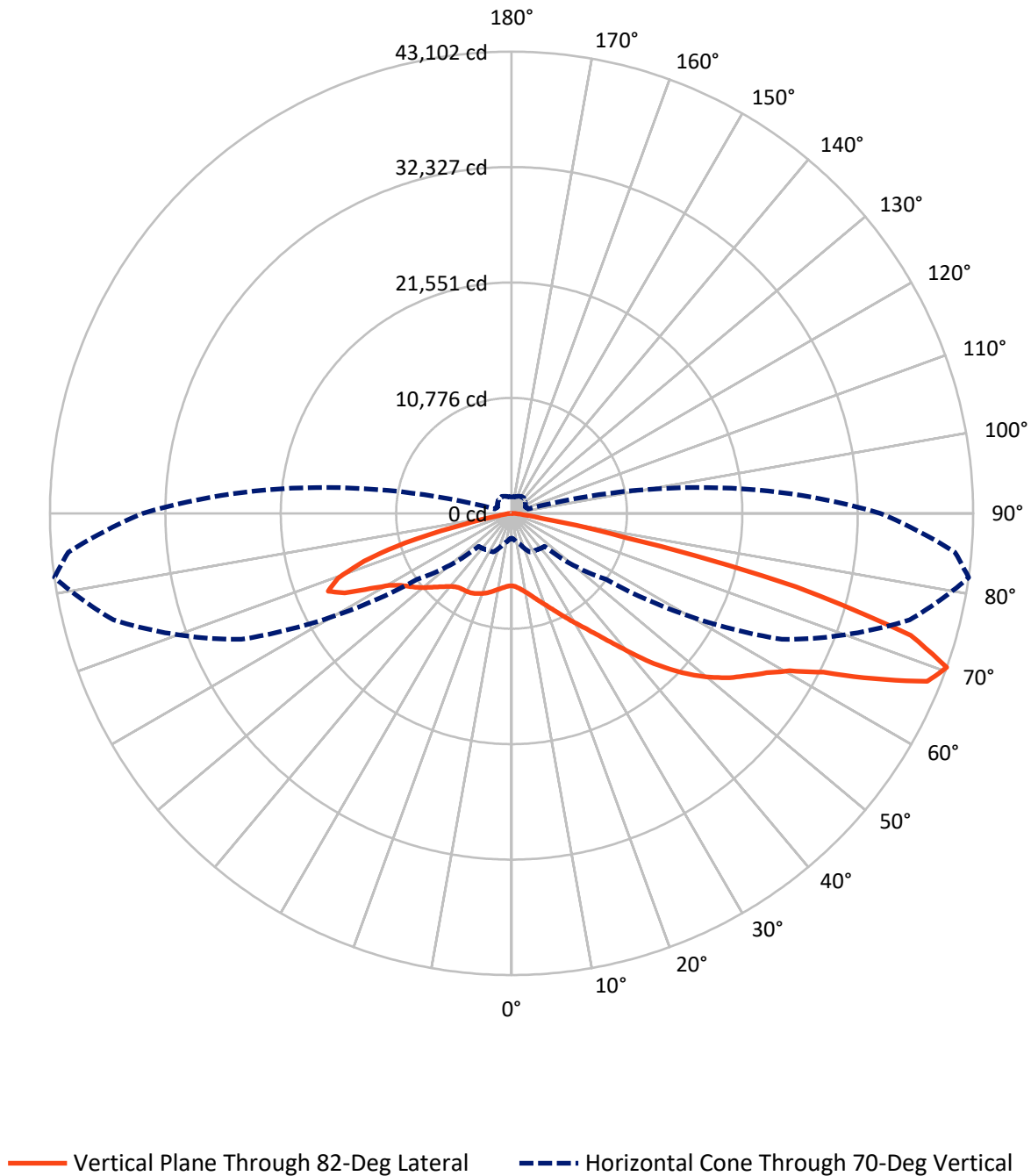
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11370.7	0.0	11370.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	34753.3	0.0	34753.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	46124.0	0.0	46124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.5	1.4
10°-20°	1834.4	4.0
20°-30°	3068.8	6.7
30°-40°	4794.2	10.4
40°-50°	7635.4	16.6
50°-60°	10625.5	23.0
60°-70°	11114.8	24.1
70°-80°	5809.2	12.6
80°-90°	603.2	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°	46124.0	100.0
0°-180°	46124.0	100.0

Coefficient of Utilization



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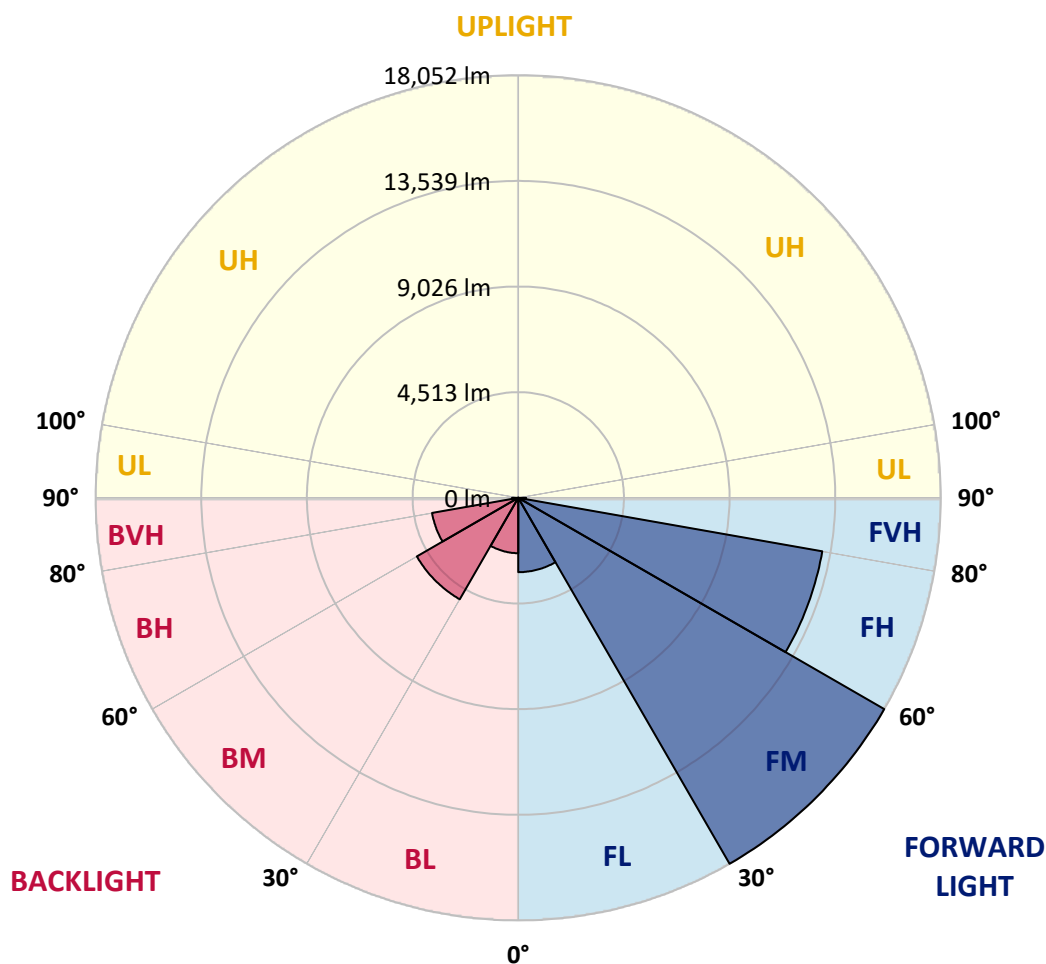
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3176.2	6.9			
FM	(30°-60°)	18052.5	39.1			
FH	(60°-80°)	13187.0	28.6			G5
FVH	(80°-90°)	337.7	0.7			G3/500
BL	(0°-30°)	2365.5	5.1	B3/2500		
BM	(30°-60°)	5002.7	10.8	B4/8500		
BH	(60°-80°)	3737.0	8.1	B4/5000		G4/5000
BVH	(80°-90°)	265.5	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3
2.5°	6923.9	6963.0	6950.8	6938.5	6938.5	6921.4	6919.0	6894.6	6875.0	6843.1	6835.7
5°	7012.0	7053.6	7048.7	7058.5	7090.3	7097.6	7105.0	7090.3	7051.2	7012.0	6994.9
7.5°	6933.7	6980.1	6994.9	7053.6	7151.5	7239.6	7305.7	7332.6	7296.0	7239.6	7212.7
10°	6669.4	6720.7	6772.2	6911.7	7085.4	7293.5	7469.7	7575.0	7567.6	7513.8	7467.2
12.5°	6133.4	6187.2	6297.3	6569.0	6887.2	7254.3	7582.2	7802.5	7878.4	7839.2	7758.4
15°	5705.0	5751.6	5834.8	6113.8	6527.4	7085.4	7623.8	8052.2	8245.5	8223.5	8125.6
17.5°	5692.8	5712.4	5763.8	5895.9	6214.2	6821.1	7579.8	8296.9	8666.5	8664.0	8541.6
20°	5908.2	5915.5	5944.9	5971.9	6153.0	6620.4	7467.2	8500.0	9138.8	9138.8	9006.7
22.5°	6206.8	6201.9	6231.3	6206.8	6294.9	6603.3	7396.2	8678.7	9665.0	9704.2	9537.8
25°	6654.7	6630.2	6622.8	6566.6	6583.7	6762.3	7474.6	8881.8	10289.2	10369.9	10161.8
27.5°	7251.9	7212.7	7185.8	7056.0	7012.0	7090.3	7714.5	9126.6	10984.2	11123.7	10859.4
30°	8030.2	7959.1	7920.0	7694.9	7535.8	7548.0	8076.7	9452.1	11711.1	11936.3	11600.9
32.5°	9092.4	8982.2	8877.0	8507.4	8216.2	8120.7	8544.1	9902.4	12499.3	12859.0	12428.2
35°	10281.8	10193.7	10081.1	9510.9	9062.9	8842.7	9175.6	10531.5	13421.9	13992.2	13431.7
37.5°	11427.2	11351.4	11405.2	10636.7	10059.0	9738.4	10002.8	11375.9	14560.0	15402.0	14689.7
40°	12611.8	12553.1	12560.3	11826.1	11153.1	10793.4	11006.2	12435.6	15864.4	17078.4	16202.3
42.5°	13899.2	13855.1	13708.2	13057.3	12300.9	11965.6	12161.4	13659.4	17264.4	18987.4	17861.6
45°	15340.8	15313.8	15176.8	14430.3	13563.8	13186.9	13451.3	15010.3	18671.7	20783.9	19528.3
47.5°	16586.4	16608.5	16591.4	15962.4	15064.1	14511.0	14826.7	16420.1	19981.1	22472.6	21126.6
50°	17186.1	17301.2	17470.0	17274.2	16716.2	16153.3	16214.5	17780.9	21229.3	24056.1	22658.6
52.5°	16872.8	17090.6	17550.8	17864.1	18079.5	17962.0	17798.0	19131.8	22404.1	25485.5	24107.6
55°	15705.4	16011.3	16774.9	17531.2	18630.1	19484.3	19699.7	20629.7	23549.5	26743.5	25478.1
57.5°	13578.6	14075.4	14760.7	16290.3	18140.7	20221.0	21917.1	22707.6	24763.5	28087.2	26912.3
60°	9931.8	10597.6	11449.2	13725.4	16427.4	19826.9	23804.1	25899.1	26489.0	29827.3	28779.7
62.5°	6356.0	6767.3	7550.5	9694.4	12800.3	17807.7	24381.7	29888.5	29413.7	32681.0	31579.6
65°	4351.6	4615.9	5333.1	6537.1	8274.9	13255.5	22834.8	32879.2	34058.9	37203.9	36366.9
67.5°	3162.1	3362.8	3974.6	5029.6	5391.8	7844.1	17719.7	32742.2	38574.5	41864.0	40561.9
70°	2305.5	2447.5	2961.4	3974.6	4148.5	4363.8	10734.6	27832.6	38476.7	43102.4	41543.4
72.5°	1708.4	1806.3	2151.4	3083.8	3357.9	2946.8	5313.5	20228.3	33062.8	38985.7	37735.1
75°	1235.9	1309.4	1563.9	2359.3	2687.3	2244.3	2650.6	11821.2	23062.5	27423.9	27644.1
77.5°	944.7	1001.0	1167.5	1727.9	2151.4	1683.9	1644.7	5438.2	10935.3	10989.1	11605.9
80°	758.7	795.4	886.0	1216.4	1649.6	1260.4	1071.9	2195.3	3455.8	2924.7	3069.2
82.5°	558.0	619.2	749.0	854.1	1179.7	868.9	653.4	1108.7	1314.3	1130.8	1140.5
85°	318.2	359.8	452.7	611.8	753.8	531.1	374.4	491.9	611.8	501.7	447.9
87.5°	112.5	146.9	159.1	239.8	328.0	220.3	144.4	142.0	200.7	149.3	124.8
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°	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3
2.5°	6811.3	6799.0	6750.1	6684.0	6615.5	6549.4	6527.4	6480.9	6449.1	6432.0	6451.6
5°	6948.4	6909.2	6794.2	6647.3	6493.2	6326.7	6209.2	6101.5	6023.2	5949.8	5979.1
7.5°	7144.1	7075.7	6877.3	6620.4	6346.3	6069.7	5864.1	5707.5	5602.2	5533.8	5548.4
10°	7371.8	7266.5	6963.0	6578.8	6155.3	5758.9	5516.5	5382.0	5315.9	5279.2	5289.0
12.5°	7633.7	7484.3	7051.2	6483.3	5864.1	5411.4	5244.9	5205.8	5208.2	5210.7	5215.5
15°	7956.7	7748.7	7122.1	6275.3	5484.8	5144.6	5115.2	5178.8	5244.9	5276.7	5274.3
17.5°	8321.4	8027.7	7134.4	5932.7	5112.8	4973.3	5066.3	5203.3	5303.7	5347.7	5357.5
20°	8713.0	8311.6	7046.3	5448.1	4806.8	4833.8	5000.2	5176.4	5286.5	5342.8	5357.5
22.5°	9160.8	8615.1	6835.7	4939.0	4557.2	4682.0	4877.8	5049.2	5164.2	5220.4	5235.1
25°	9672.4	8955.3	6505.4	4510.7	4341.8	4510.7	4706.5	4848.5	4941.4	4992.9	5007.5
27.5°	10240.2	9310.2	6064.8	4170.5	4153.4	4334.4	4496.0	4606.1	4655.0	4694.2	4709.0
30°	10810.5	9633.3	5531.3	3913.4	3989.4	4160.7	4275.7	4324.7	4339.3	4346.7	4363.8
32.5°	11427.2	9912.3	4970.8	3700.6	3832.8	3991.9	4060.3	4082.4	4013.8	3967.4	3982.0
35°	12173.7	10210.8	4422.6	3531.7	3678.5	3815.6	3837.6	3818.0	3737.3	3641.8	3646.7
37.5°	13096.4	10582.8	3984.5	3411.8	3534.1	3624.7	3597.7	3592.9	3600.2	3487.7	3494.9
40°	14227.1	11067.4	3663.9	3318.7	3416.6	3436.2	3360.4	3402.0	3438.7	3267.4	3272.3
42.5°	15482.7	11652.4	3460.7	3255.1	3318.7	3272.3	3154.7	3201.3	3196.4	2971.3	2968.8
45°	16762.7	12288.7	3389.8	3208.7	3228.2	3135.2	3005.5	3017.7	2914.9	2711.8	2719.1
47.5°	18035.4	12971.6	3433.7	3169.5	3115.6	3010.4	2910.1	2856.2	2704.5	2552.7	2552.7
50°	19283.6	13688.7	3595.3	3091.2	2961.4	2900.2	2826.8	2731.4	2569.9	2440.1	2430.4
52.5°	20441.3	14410.7	3776.4	2961.4	2768.1	2804.8	2758.3	2648.2	2489.1	2356.9	2359.3
55°	21537.7	15132.7	3847.4	2782.8	2587.0	2721.6	2694.6	2491.6	2300.6	2192.9	2183.1
57.5°	22732.0	16001.6	3769.1	2555.1	2440.1	2626.2	2523.3	2298.2	2188.1	2107.3	2099.9
60°	24386.6	17364.7	3600.2	2273.7	2300.6	2484.2	2308.0	2214.9	2095.0	2004.5	1999.6
62.5°	27135.0	19907.7	3328.6	1994.6	2136.6	2273.7	2205.2	2112.1	1989.8	1901.7	1901.7
65°	31197.8	23441.9	2817.0	1776.8	1953.0	2068.1	2095.0	2002.0	1874.7	1781.8	1786.7
67.5°	34624.3	25659.2	2131.8	1595.7	1764.6	1901.7	1977.5	1887.0	1752.3	1661.8	1664.3
70°	34435.9	24048.9	1627.6	1417.1	1598.2	1737.7	1835.6	1764.6	1620.2	1534.5	1541.9
72.5°	30586.0	20118.2	1316.7	1235.9	1429.4	1566.4	1683.9	1630.1	1483.2	1399.9	1399.9
75°	22470.2	14281.0	1052.4	1052.4	1218.8	1387.7	1517.4	1483.2	1348.6	1289.9	1272.6
77.5°	9471.7	5991.4	824.8	873.7	1013.2	1191.9	1353.4	1365.7	1248.2	1321.6	1199.2
80°	2518.4	1652.0	629.0	687.8	795.4	983.9	1177.2	1172.3	1045.1	976.5	908.0
82.5°	959.4	651.0	447.9	484.6	575.1	753.8	932.4	961.9	834.6	722.0	722.0
85°	369.6	279.0	276.5	291.2	335.3	499.3	704.9	729.4	629.0	533.5	550.6
87.5°	95.4	83.2	102.8	97.9	154.2	266.8	403.8	418.5	384.3	222.7	318.2
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)