

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: P885464

Luminaire Tested: **NAV-SB6D-735-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61226 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

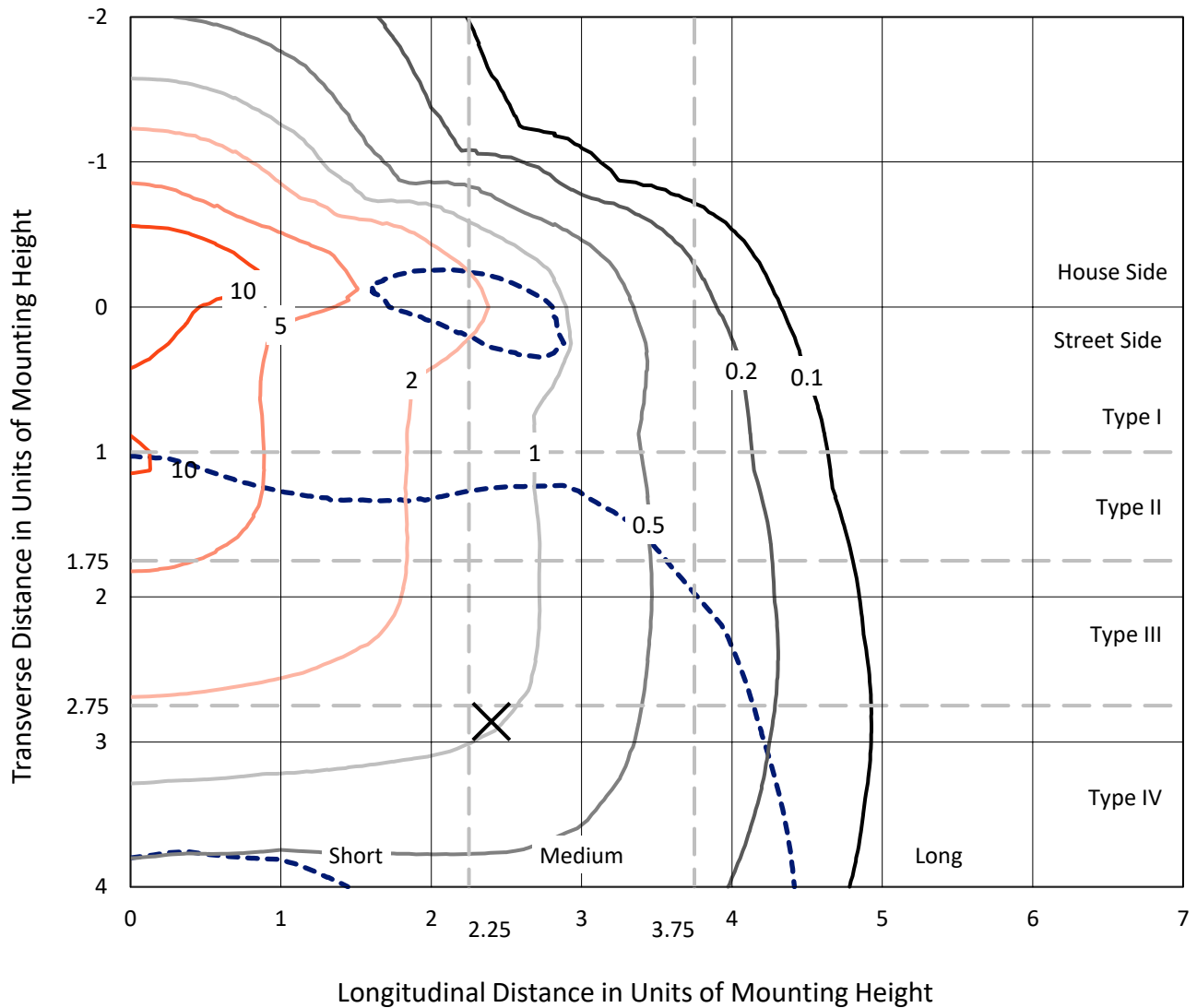
Input Watts (W): 440.1
Input Voltage (V): 120.0
Input Current (Ain): 3.68
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

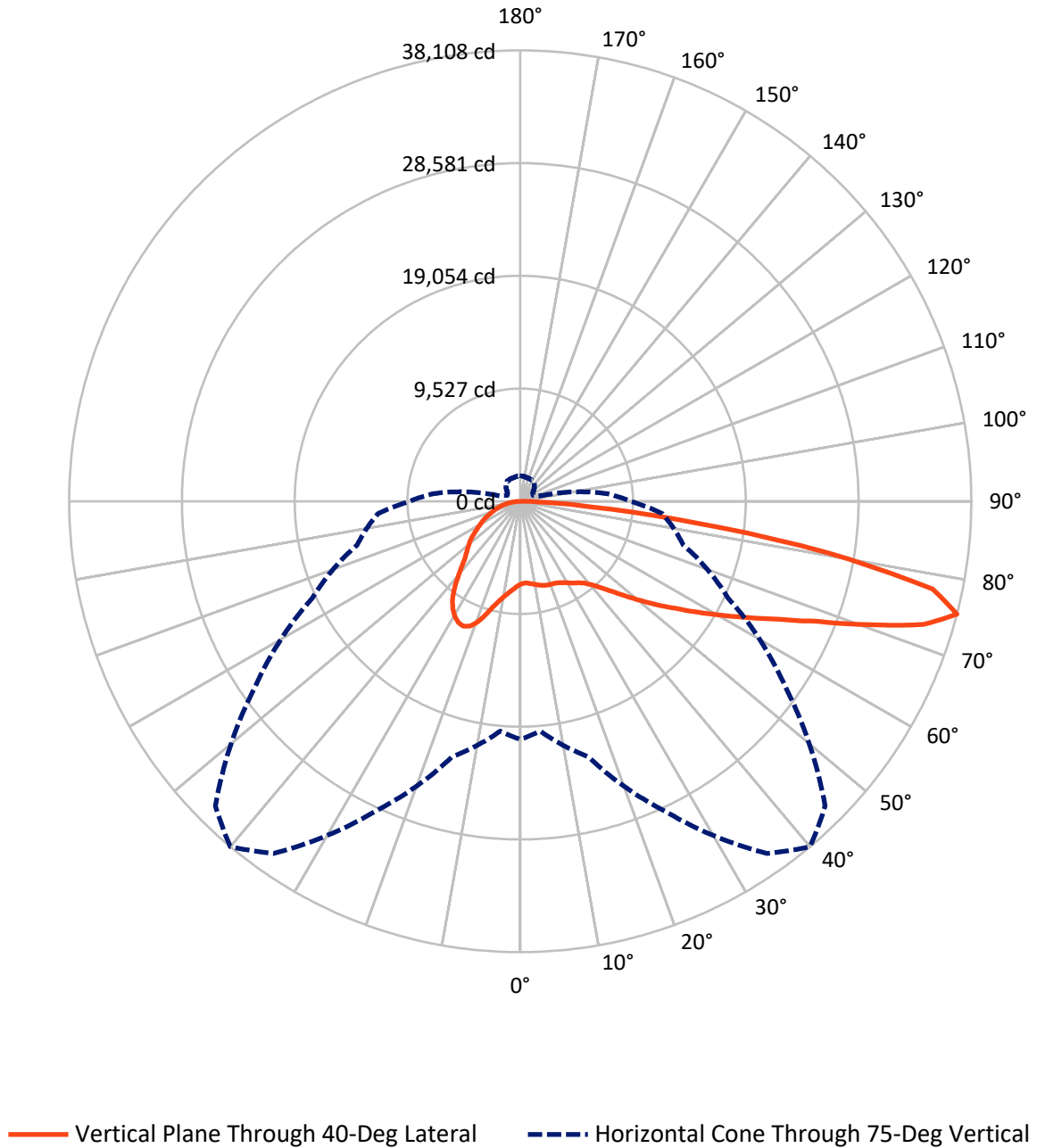
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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	18969.9	0.0	18969.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	42256.1	0.0	42256.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	61226.0	0.0	61226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.9	1.1
10°-20°	2346.4	3.8
20°-30°	4284.3	7.0
30°-40°	6076.4	9.9
40°-50°	8204.9	13.4
50°-60°	11037.8	18.0
60°-70°	14009.5	22.9
70°-80°	12714.5	20.8
80°-90°	1853.4	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°	61226.0	100.0
0°-180°	61226.0	100.0

Coefficient of Utilization



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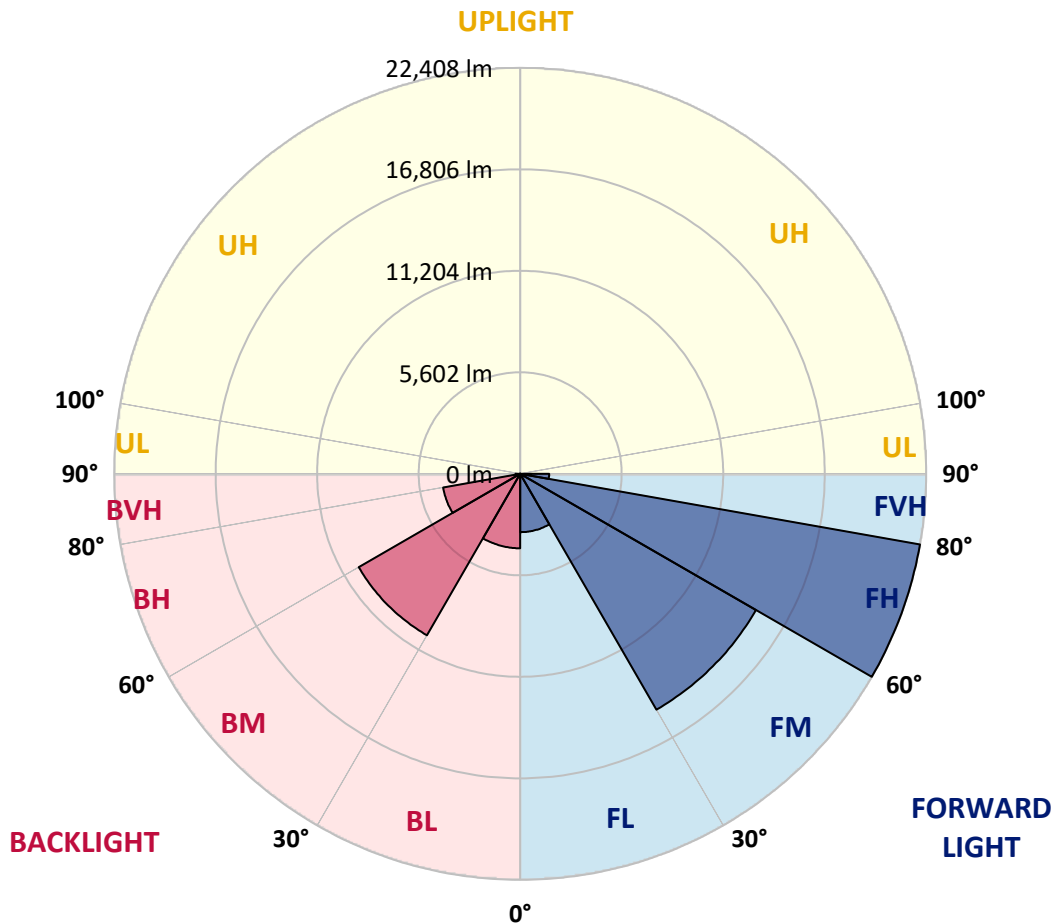
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3220.5	5.3			
FM (30°-60°)	15029.6	24.5			
FH (60°-80°)	22407.8	36.6			G5
FVH (80°-90°)	1598.2	2.6			G5
BL (0°-30°)	4109.0	6.7	B4/5000		
BM (30°-60°)	10289.4	16.8	B5		
BH (60°-80°)	4316.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	255.2	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	7001.3	7001.3	7001.3	7001.3	7001.3	7001.3	7001.3	7001.3	7001.3	7001.3	7001.3
2.5°	6894.1	6933.1	6923.3	6910.3	6910.3	6913.6	6910.3	6933.1	6955.8	6978.5	7014.3
5°	6965.6	7004.5	6985.0	6968.8	6955.8	6952.6	6942.8	6939.6	6952.6	6981.8	7030.5
7.5°	7105.2	7144.2	7114.9	7085.7	7059.7	7046.7	7033.7	7014.3	7004.5	7020.8	7089.0
10°	7261.1	7300.0	7264.3	7212.4	7170.1	7153.9	7140.9	7121.4	7108.4	7118.2	7192.9
12.5°	7416.9	7455.9	7407.2	7335.8	7280.5	7270.8	7254.6	7248.1	7244.8	7241.6	7316.3
15°	7563.1	7595.5	7533.8	7449.4	7391.0	7374.7	7358.5	7368.2	7384.5	7403.9	7488.4
17.5°	7676.7	7709.2	7618.3	7507.9	7452.7	7446.2	7436.4	7468.9	7514.4	7563.1	7667.0
20°	7780.6	7813.1	7696.2	7546.8	7481.9	7481.9	7485.1	7553.3	7618.3	7689.7	7832.6
22.5°	7926.8	7952.7	7809.9	7605.3	7511.1	7517.6	7543.6	7611.8	7693.0	7790.4	7988.5
25°	8144.3	8163.8	7988.5	7715.7	7608.5	7628.0	7650.7	7683.2	7761.2	7874.8	8141.1
27.5°	8495.1	8511.3	8280.7	7910.5	7748.2	7780.6	7813.1	7790.4	7826.1	7923.5	8264.5
30°	8988.6	8998.4	8706.1	8215.8	7985.2	8001.5	8008.0	7913.8	7845.6	7923.5	8352.2
32.5°	9573.2	9569.9	9222.5	8586.0	8254.7	8238.5	8183.3	7998.2	7839.1	7907.3	8430.1
35°	10479.2	10443.5	9995.3	9105.6	8560.0	8459.3	8329.4	8092.4	7871.6	7891.0	8498.3
37.5°	11979.5	11869.0	11248.8	9956.4	9014.6	8758.1	8566.5	8245.0	7943.0	7884.6	8579.5
40°	13671.3	13531.7	12849.7	11122.2	9696.6	9284.2	8975.7	8462.6	8059.9	7913.8	8699.6
42.5°	15678.2	15480.1	14746.2	12495.8	10560.4	9962.9	9498.5	8738.6	8232.0	8008.0	8862.0
45°	18142.9	17879.9	16840.7	14044.8	11648.2	10852.6	10232.4	9157.5	8495.1	8189.8	9105.6
47.5°	20633.6	20698.6	19221.0	15817.8	12953.7	11950.2	11151.4	9787.5	8878.2	8482.1	9498.5
50°	23280.2	23325.7	21588.3	17782.5	14434.4	13190.7	12184.0	10492.2	9410.8	8897.7	10086.3
52.5°	25345.5	25352.0	23738.1	19838.0	15976.9	14554.6	13297.9	11297.5	10027.8	9449.8	10868.9
55°	26638.0	26621.7	25244.9	21783.2	17750.0	15986.7	14531.9	12213.3	10781.2	10099.2	11852.8
57.5°	27576.4	27527.7	26284.0	23455.6	19639.9	17678.5	15928.2	13252.4	11671.0	10872.1	13148.5
60°	27933.7	27904.4	26988.7	24900.6	21627.3	19549.0	17538.9	14415.0	12680.9	11784.6	14814.4
62.5°	28070.0	28125.3	27680.4	26300.2	23754.3	21620.8	19308.7	15804.8	13817.5	12817.3	16571.2
65°	28550.7	28651.3	28560.4	28131.7	26157.4	24046.6	21656.5	17457.7	15057.9	13924.6	18405.9
67.5°	29502.1	29602.8	29641.8	30323.7	29093.0	27069.9	24585.6	19516.5	16509.5	15074.2	19786.1
70°	29479.4	29450.2	30138.6	32067.5	32769.0	31255.7	28534.4	22049.5	18240.3	16028.9	19961.4
72.5°	26832.8	26599.0	28225.9	32048.0	35828.0	35626.6	33356.7	25316.3	19734.1	16145.8	17321.3
75°	20130.3	19506.8	22380.7	28881.9	36337.8	38107.6	36422.2	27342.6	19380.2	14265.6	12054.1
77.5°	8608.7	7982.0	11369.0	21380.5	32522.2	35623.4	33610.0	23855.0	15470.3	9433.5	5919.9
80°	2253.7	2250.4	3435.7	9693.3	22117.7	26306.7	23078.9	15405.4	8839.3	3370.7	1633.4
82.5°	932.0	909.3	1263.2	3770.2	10807.2	14762.4	12047.6	6871.4	3192.1	912.5	542.3
85°	347.5	344.2	613.7	1302.2	3812.4	6088.8	4406.6	1756.8	795.6	444.9	243.6
87.5°	97.4	94.2	133.1	451.4	928.7	1409.3	753.4	289.0	224.1	175.4	71.4
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°	7001.3	7001.3	7001.3	7001.3	7001.3	7001.3	7001.3	7001.3	7001.3	7001.3	7001.3
2.5°	7024.0	7040.2	7069.5	7092.2	7121.4	7153.9	7199.4	7228.6	7257.8	7277.3	7264.3
5°	7053.2	7089.0	7163.6	7238.3	7326.0	7407.2	7501.4	7569.6	7624.8	7641.0	7647.5
7.5°	7118.2	7176.6	7303.3	7429.9	7569.6	7702.7	7839.1	7956.0	8050.2	8085.9	8089.1
10°	7231.8	7309.8	7488.4	7667.0	7852.1	8056.7	8232.0	8400.9	8534.0	8589.2	8592.5
12.5°	7374.7	7472.1	7705.9	7952.7	8209.3	8491.8	8719.1	8926.9	9092.6	9167.3	9167.3
15°	7559.8	7686.5	7985.2	8316.4	8693.1	9086.1	9375.1	9605.6	9790.7	9881.7	9875.2
17.5°	7761.2	7930.0	8306.7	8806.8	9345.9	9862.2	10199.9	10368.8	10560.4	10648.0	10644.8
20°	7956.0	8163.8	8702.9	9430.3	10148.0	10696.8	10969.5	11015.0	11028.0	11037.7	11063.7
22.5°	8157.3	8436.6	9199.7	10216.1	10985.8	11365.7	11404.7	11209.8	10937.1	10810.4	10846.1
25°	8378.1	8748.3	9849.2	11083.2	11706.7	11752.1	11453.4	10979.3	10462.9	10225.9	10261.6
27.5°	8592.5	9108.8	10628.6	11911.3	12226.3	11826.8	11183.9	10511.7	9888.2	9638.1	9667.3
30°	8806.8	9521.2	11489.1	12635.4	12463.3	11641.7	10758.5	10008.3	9381.6	9118.5	9147.8
32.5°	9024.4	10001.8	12479.5	13158.2	12421.1	11248.8	10229.1	9443.3	8891.2	8615.2	8650.9
35°	9271.2	10592.8	13418.0	13444.0	12138.6	10670.8	9531.0	8767.8	8287.2	8066.4	8115.1
37.5°	9592.7	11343.0	14246.1	13515.4	11645.0	9823.2	8663.9	7969.0	7572.8	7472.1	7543.6
40°	9992.1	12245.7	14879.3	13401.8	10914.3	8793.8	7715.7	7160.4	6936.3	6959.1	7037.0
42.5°	10511.7	13255.7	15324.2	13109.5	9897.9	7731.9	6884.4	6637.6	6744.7	6835.7	6920.1
45°	11187.1	14304.6	15600.2	12612.7	8748.3	6832.4	6394.0	6452.5	6533.7	6543.4	6608.3
47.5°	12050.9	15366.4	15782.1	11862.5	7576.1	6199.2	6082.3	6095.3	6079.0	6010.8	6062.8
50°	13129.0	16399.1	15944.5	10868.9	6579.1	5803.0	5647.1	5601.7	5377.6	5156.8	5186.0
52.5°	14356.5	17347.3	16012.7	9634.9	5803.0	5471.8	5218.5	4932.7	4513.8	4445.6	4468.3
55°	15720.4	18224.1	15837.3	8118.4	5150.3	5046.4	4663.2	4319.0	4273.5	4215.1	4224.8
57.5°	17350.6	19169.1	15480.1	6426.5	4481.3	4549.5	4176.1	4215.1	4133.9	4042.9	4026.7
60°	19133.4	20146.5	14853.4	4884.0	3789.7	3929.3	4049.4	4046.2	4023.5	3948.8	3922.8
62.5°	20737.5	20789.5	13619.4	3740.9	3182.4	3448.7	3776.7	3773.4	3753.9	3711.7	3695.5
65°	21692.3	20692.1	11560.5	2945.3	2682.3	3052.5	3406.5	3432.4	3435.7	3432.4	3432.4
67.5°	21523.4	19552.3	8735.4	2344.6	2269.9	2649.8	3039.5	3075.2	3101.2	3107.7	3114.2
70°	19614.0	17048.6	5695.8	1870.5	1902.9	2295.9	2692.0	2727.8	2750.5	2776.5	2789.5
72.5°	15288.5	12534.7	3260.3	1513.3	1581.5	1990.6	2347.8	2390.0	2403.0	2451.7	2471.2
75°	9316.6	7371.5	1760.1	1191.8	1298.9	1701.6	2006.9	2055.6	2078.3	2136.8	2143.2
77.5°	4429.4	3192.1	1003.4	928.7	1045.6	1389.9	1695.1	1750.3	1688.6	1721.1	1695.1
80°	1497.0	1185.3	633.2	707.9	798.8	1084.6	1357.4	1412.6	1282.7	1276.2	1263.2
82.5°	522.8	480.6	402.7	470.9	516.3	776.1	1026.2	1097.6	954.7	951.5	906.0
85°	204.6	194.8	224.1	256.5	308.5	477.4	675.4	711.2	587.8	474.1	467.6
87.5°	42.2	45.5	55.2	58.5	94.2	165.6	243.6	298.8	237.1	201.3	185.1
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)