

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: P971405

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-735-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64328 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 440.1
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



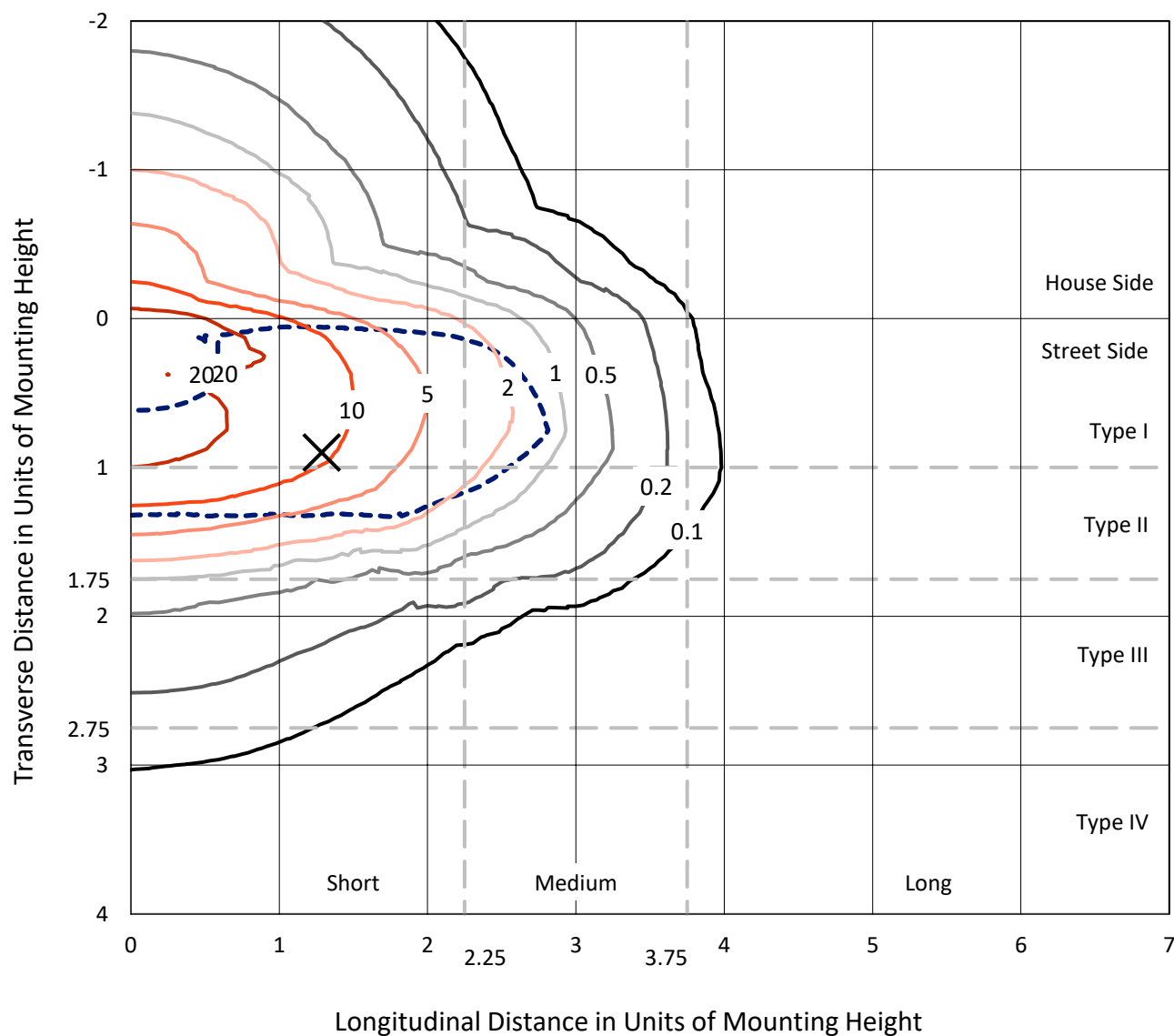
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

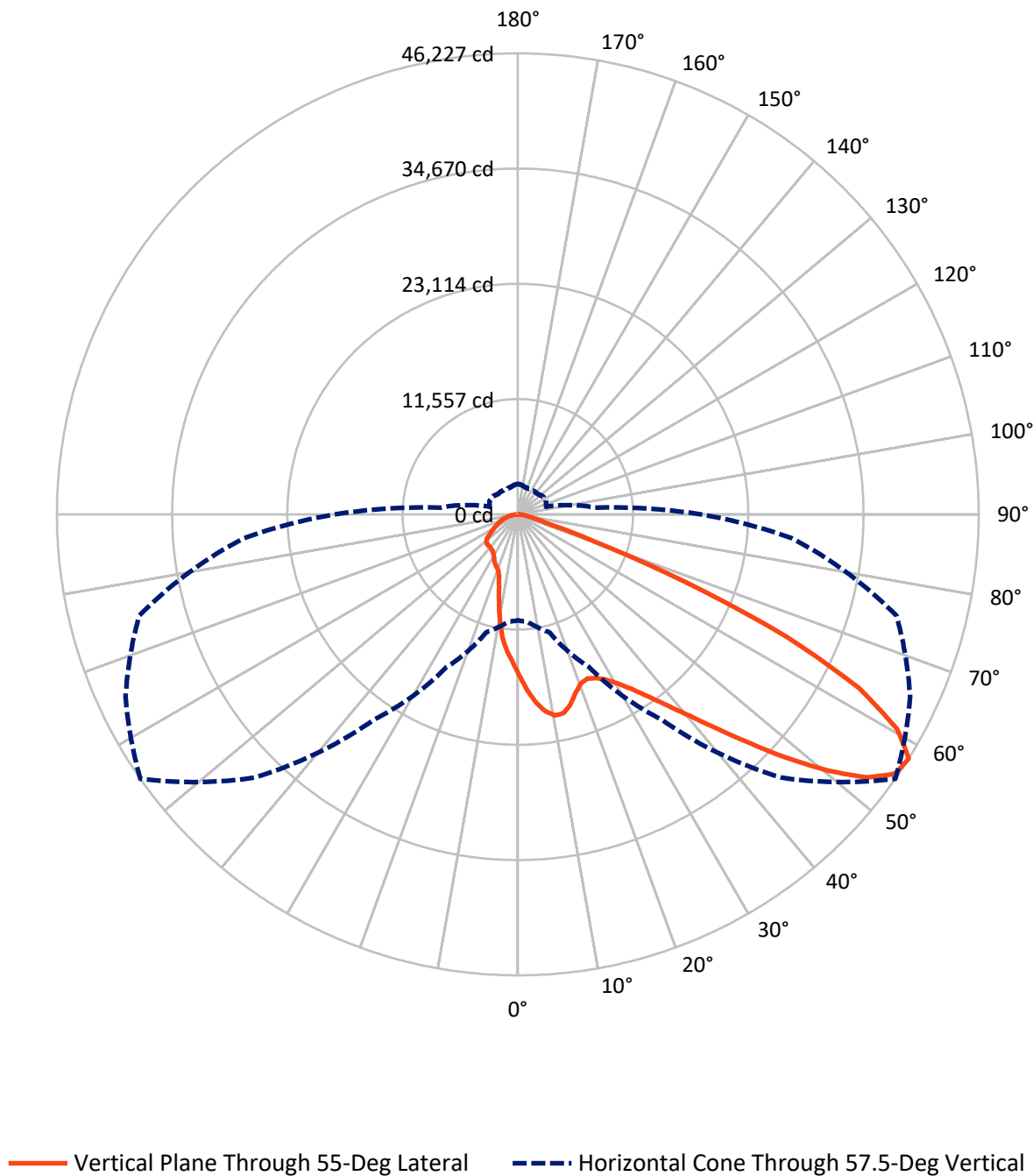


Based on 25 foot mounting height. Maximum calculated value = 31.2 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11639.8	0.0	11639.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	52688.1	0.0	52688.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	64328.0	0.0	64328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1495.7	2.3
10°-20°	3775.2	5.9
20°-30°	6024.2	9.4
30°-40°	9537.8	14.8
40°-50°	14598.5	22.7
50°-60°	15636.4	24.3
60°-70°	9836.9	15.3
70°-80°	2909.0	4.5
80°-90°	514.3	0.8
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°	64328.0	100.0
0°-180°	64328.0	100.0

Coefficient of Utilization



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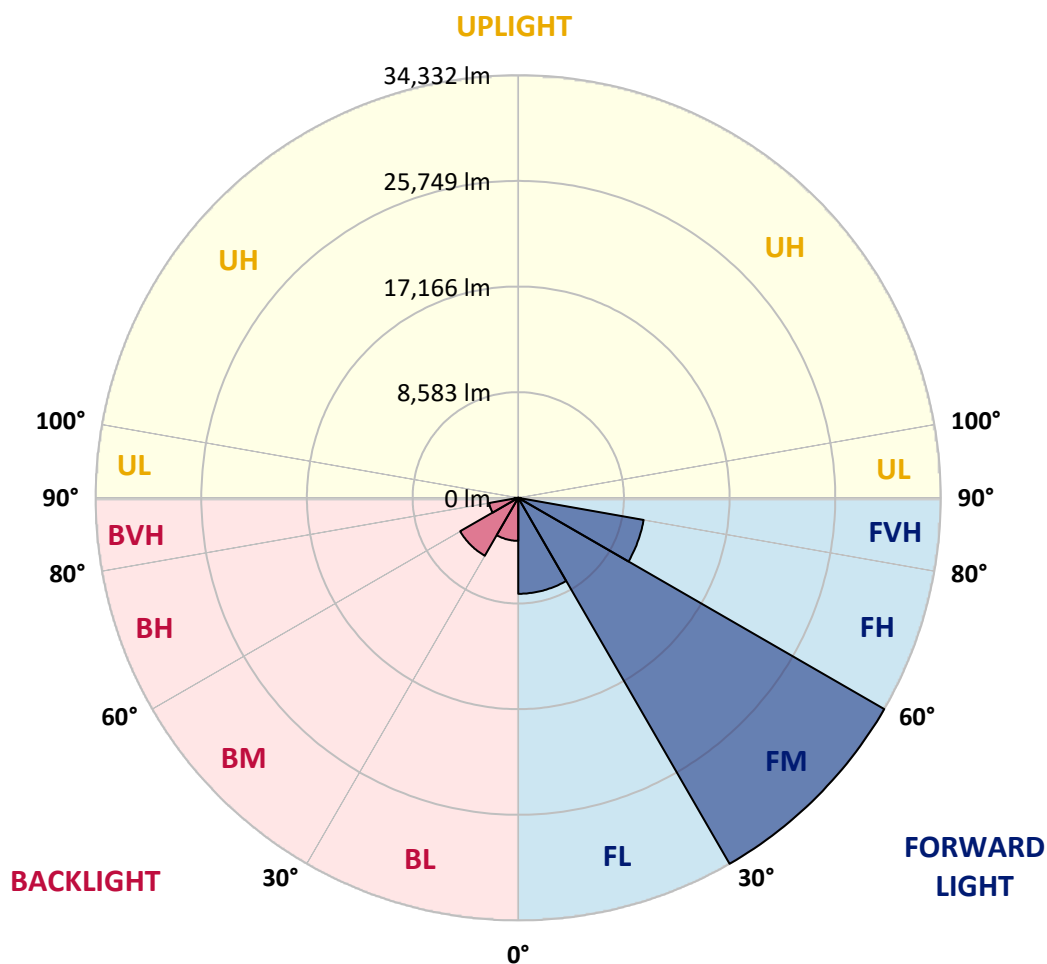
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7796.5	12.1			
FM	(30°-60°)	34332.3	53.4			
FH	(60°-80°)	10342.0	16.1			G4/12000
FVH	(80°-90°)	217.3	0.3			G2/225
BL	(0°-30°)	3498.5	5.4	B4/5000		
BM	(30°-60°)	5440.4	8.5	B4/8500		
BH	(60°-80°)	2403.9	3.7	B3/2500		G3/2500
BVH	(80°-90°)	297.0	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	16118.5	16118.5	16118.5	16118.5	16118.5	16118.5	16118.5	16118.5	16118.5	16118.5	16118.5
2.5°	18492.8	18479.6	18552.7	18303.3	18133.7	17904.3	17601.6	17215.9	16800.3	16361.3	16171.7
5°	20159.0	20042.5	20119.0	19932.8	19746.6	19400.7	18951.8	18323.3	17555.1	16680.5	16215.0
7.5°	19896.3	19816.4	20012.6	20178.9	20318.6	20275.3	19946.1	19287.6	18296.7	17026.4	16351.3
10°	17777.9	17688.1	17964.1	18539.5	19384.1	20119.0	20518.0	20109.1	19054.9	17405.4	16484.3
12.5°	15909.0	15865.8	16048.6	16514.2	17452.1	18862.0	20445.0	20827.4	19843.0	17854.4	16663.8
15°	15110.9	15057.7	15174.1	15410.2	16008.8	17322.3	19779.8	21319.5	20617.9	18373.1	16949.9
17.5°	14934.7	14874.8	14924.6	15047.7	15433.4	16434.4	18775.5	21562.3	21426.0	18951.8	17189.2
20°	15260.5	15210.7	15217.3	15210.7	15480.1	16274.8	18077.2	21469.1	22131.0	19483.9	17422.1
22.5°	16048.6	15965.5	15968.9	15792.6	15939.0	16554.2	17894.3	21219.8	22759.4	19949.5	17598.3
25°	17332.3	17182.7	17212.6	16763.7	16723.7	17179.3	18180.3	21026.8	23384.7	20321.9	17631.5
27.5°	19088.2	18918.5	18828.7	18160.3	17841.0	18067.3	18762.2	21093.4	23976.6	20644.4	17548.4
30°	21282.9	21076.8	20893.9	19946.1	19367.5	19284.4	19666.8	21532.4	24674.9	20983.7	17405.4
32.5°	23973.2	23733.8	23401.3	22144.2	21329.5	20893.9	20837.3	22313.8	25493.0	21415.9	17332.3
35°	27175.6	26863.1	26390.9	24764.7	23733.8	22842.5	22380.4	23441.1	26613.6	22067.7	17415.5
37.5°	30474.5	30122.0	29689.7	27754.3	26487.3	25173.7	24262.6	24970.8	28106.8	22952.3	17634.9
40°	33517.3	33121.5	32719.2	30996.6	29636.5	28053.5	26567.1	26906.2	29932.5	24009.8	18007.4
42.5°	35313.1	35020.5	34867.4	33936.3	32885.5	31279.3	29433.6	29200.8	31984.3	25226.9	18433.0
45°	35233.2	35113.5	35585.7	35971.5	35722.1	34830.8	32792.3	31738.2	34042.7	26281.1	18825.5
47.5°	33351.0	33430.9	34485.0	36653.2	37607.7	38073.2	36616.6	34229.0	35831.8	27069.2	19001.7
50°	28229.8	28296.4	30737.2	35412.8	38093.1	40716.9	40411.0	36659.8	37218.6	27551.4	18961.8
52.5°	24176.1	24219.3	25266.9	31734.8	36490.3	42047.1	43829.5	38951.1	38232.8	27684.4	18738.9
55°	18210.3	18359.9	19533.7	24897.8	32320.1	40992.9	45911.3	41312.2	38874.7	27697.8	18506.2
57.5°	10638.2	10801.1	12251.0	16900.0	25120.5	37318.3	46227.2	43407.2	39310.3	27591.4	18366.5
60°	5211.0	5280.8	5912.7	8882.3	15490.0	30238.4	43686.5	44421.4	39553.0	27534.8	18359.9
62.5°	3511.6	3501.7	3528.4	4383.0	7631.9	19427.3	38392.4	42645.7	39423.3	27318.6	18293.4
65°	3019.5	2983.0	2883.2	3076.0	3953.9	8885.6	29663.1	37345.0	38435.7	26776.6	17837.8
67.5°	2610.5	2613.9	2617.1	2557.3	2823.4	4100.3	18127.1	29417.0	34890.7	24209.4	16081.9
70°	2161.5	2191.4	2204.8	2204.8	2301.2	2690.3	7738.3	20162.3	27521.5	18981.8	12952.6
72.5°	1968.7	1905.5	1912.1	1878.9	1878.9	2048.5	3116.0	11429.6	17338.9	10678.0	7904.6
75°	1606.2	1646.2	1652.7	1629.4	1553.0	1562.9	1849.0	4795.4	7419.1	4429.5	3907.4
77.5°	1386.7	1386.7	1400.0	1383.3	1323.6	1170.6	1233.8	1858.9	2524.1	1815.7	1952.0
80°	1114.1	1110.7	1167.3	1200.5	1107.4	864.6	788.1	1027.6	1120.6	798.1	1014.2
82.5°	542.0	575.3	801.4	914.5	841.3	625.1	482.2	638.5	598.6	352.5	455.6
85°	315.9	299.3	359.2	508.8	482.2	345.8	232.8	332.5	312.6	179.6	182.9
87.5°	99.7	93.1	73.2	172.9	139.7	96.5	63.1	96.5	86.5	39.9	39.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16118.5	16118.5	16118.5	16118.5	16118.5	16118.5	16118.5	16118.5	16118.5	16118.5
2.5°	15935.6	15543.2	15154.1	14798.3	14582.2	14442.5	14302.8	14146.5	14086.7	13996.9
5°	15776.0	15017.8	14342.7	13760.7	13232.0	12816.3	12397.3	12058.1	11905.2	12008.3
7.5°	15682.9	14585.4	13544.6	12477.1	11449.6	10628.1	9913.2	9411.0	9184.9	9241.5
10°	15599.7	14096.6	12510.3	10824.4	9347.9	8330.3	7598.6	7216.2	7073.2	7103.1
12.5°	15523.2	13547.9	11263.3	9045.2	7475.6	6803.8	6594.3	6597.7	6624.3	6644.3
15°	15510.0	12886.2	9869.9	7489.0	6464.7	6421.4	6647.6	6790.6	6867.1	6890.4
17.5°	15490.0	12094.7	8450.0	6428.1	6218.6	6511.2	6720.7	6813.9	6873.8	6877.0
20°	15410.2	11090.4	7139.7	5922.7	6165.4	6418.1	6547.8	6621.0	6670.9	6687.5
22.5°	15164.1	9973.0	6118.8	5696.5	5952.6	6155.4	6308.4	6391.5	6421.4	6441.4
25°	14721.8	8722.6	5413.8	5480.4	5656.6	5912.7	6035.7	6052.3	6042.4	6072.3
27.5°	14143.2	7382.6	4974.8	5187.7	5413.8	5633.3	5699.8	5689.9	5669.9	5703.2
30°	13444.8	6178.7	4695.5	4858.5	5167.7	5367.3	5427.2	5403.9	5363.9	5400.5
32.5°	12706.6	5194.4	4466.1	4629.0	4964.9	5161.1	5220.9	5197.7	5167.7	5197.7
35°	12018.2	4506.0	4253.2	4476.1	4805.3	4998.2	5074.7	5078.0	5078.0	5114.5
37.5°	11386.4	4103.6	4077.0	4379.6	4695.5	4868.4	4978.2	4984.9	4841.9	4851.8
40°	10801.1	3934.1	3997.2	4316.5	4589.1	4755.4	4762.0	4389.6	4126.9	4120.3
42.5°	10322.3	3900.7	4020.5	4309.8	4512.7	4519.3	4050.4	3761.1	3688.0	3691.2
45°	9873.3	3890.8	4073.7	4309.8	4399.6	3904.1	3588.2	3511.6	3518.3	3545.0
47.5°	9371.2	3850.9	4083.7	4250.0	4073.7	3471.8	3378.7	3345.4	3332.1	3338.7
50°	8822.5	3707.9	3957.3	4130.2	3515.0	3285.5	3169.2	3159.2	3175.9	3185.8
52.5°	8243.8	3475.1	3741.1	3914.1	3259.0	3122.6	2992.9	3016.2	3089.4	3112.6
55°	7864.7	3202.4	3455.2	3481.7	3079.4	2969.6	2859.9	2913.2	3049.5	3092.6
57.5°	7765.0	2913.2	3129.2	3099.3	2849.9	2836.6	2770.1	2816.7	2989.6	3052.8
60°	7735.1	2653.7	2810.0	2786.8	2627.1	2690.3	2673.7	2697.0	2756.8	2776.7
62.5°	7502.3	2447.5	2524.1	2490.8	2427.6	2537.3	2577.3	2527.3	2573.9	2597.1
65°	6910.3	2281.2	2244.6	2221.4	2248.0	2347.8	2427.6	2327.8	2371.0	2437.6
67.5°	5932.6	2055.1	1955.4	1981.9	2065.1	2118.4	2221.4	2108.3	2144.9	2258.0
70°	4798.6	1769.2	1679.4	1755.8	1835.7	1945.3	1962.1	1885.5	1972.0	2098.4
72.5°	3395.3	1479.8	1416.7	1573.0	1599.5	1742.5	1706.0	1669.4	1789.1	1832.3
75°	2354.4	1193.8	1157.2	1276.9	1373.4	1496.5	1469.8	1513.1	1765.9	1785.8
77.5°	1489.8	927.8	904.6	981.0	1114.1	1250.4	1293.7	1785.8	3016.2	3135.9
80°	864.6	691.7	665.1	725.0	841.3	967.7	1247.0	2191.4	1988.6	1965.3
82.5°	482.2	475.5	442.3	458.9	562.0	698.3	1762.5	1543.0	1253.7	1293.7
85°	226.1	279.3	239.4	229.5	315.9	818.1	1177.2	881.3	585.3	571.9
87.5°	59.9	53.2	53.2	59.9	133.0	705.0	468.9	375.8	222.8	216.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)