

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: P971033

Luminaire Tested: **NAV-SB6C-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971033
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-SB6C-830-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42539.6 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

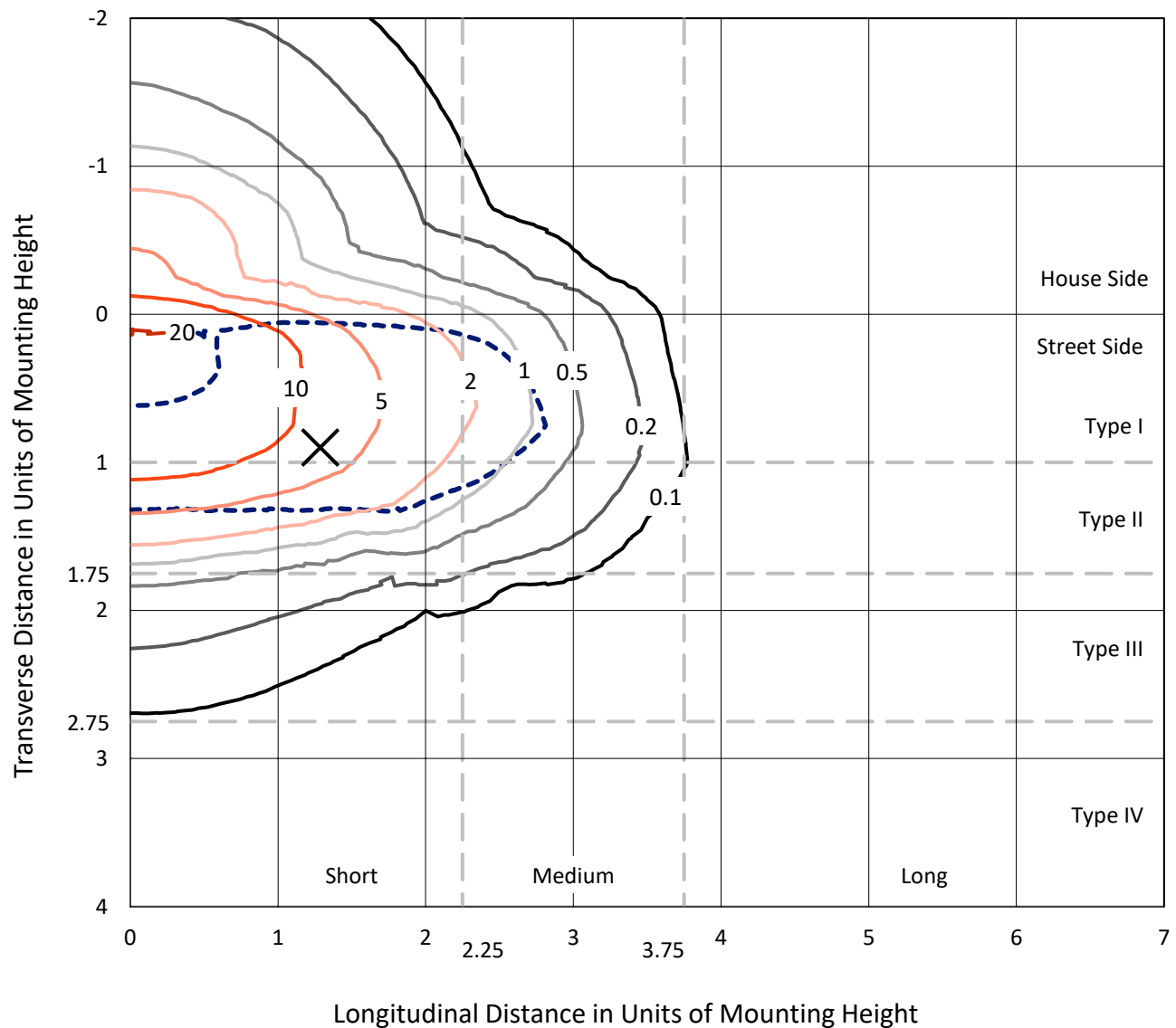


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Iso-Footcandle Lines of Horizontal Illumination

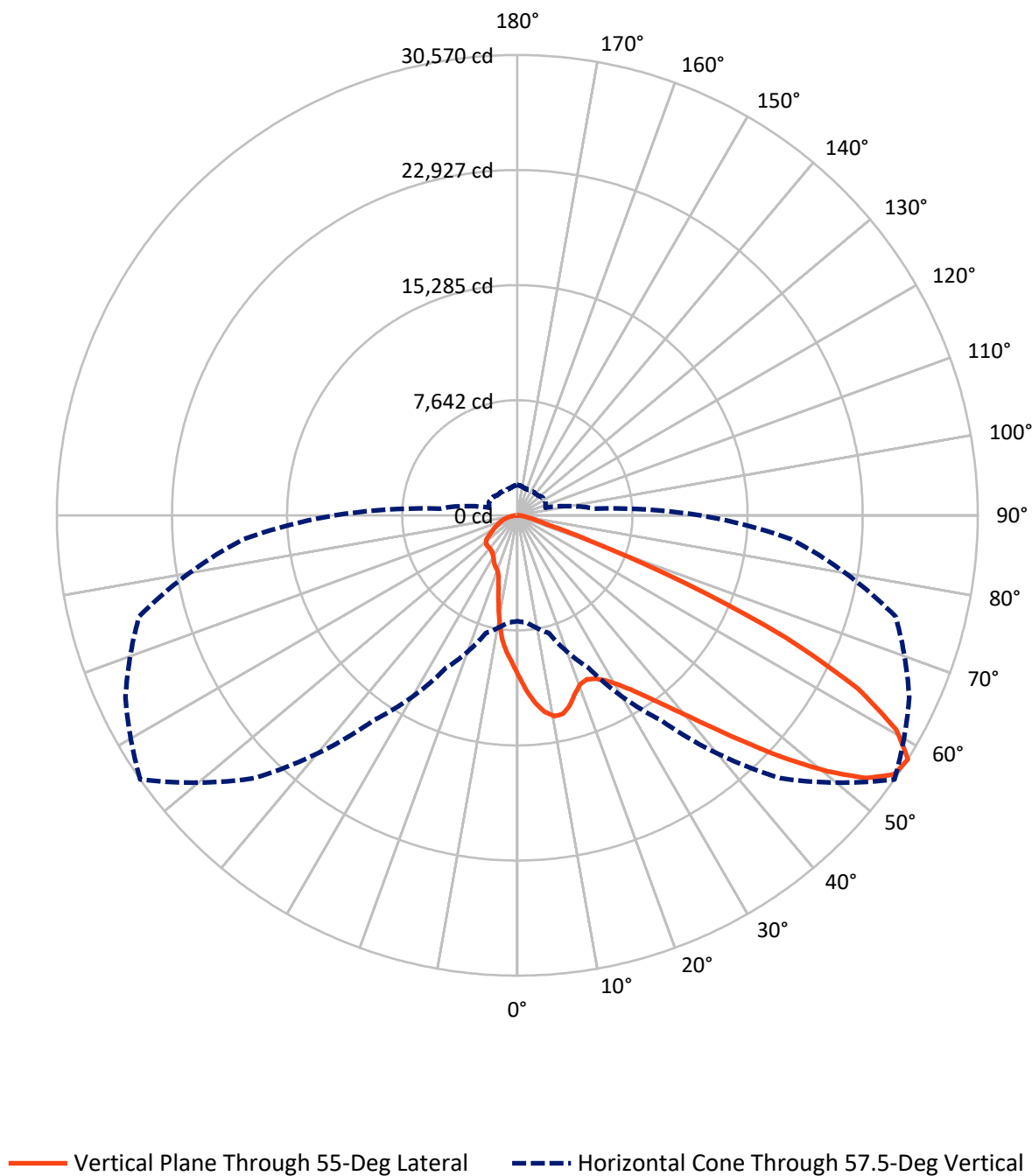
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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	7697.3	0.0	7697.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	34842.2	0.0	34842.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	42539.6	0.0	42539.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	989.1	2.3
10°-20°	2496.5	5.9
20°-30°	3983.7	9.4
30°-40°	6307.2	14.8
40°-50°	9653.9	22.7
50°-60°	10340.2	24.3
60°-70°	6505.1	15.3
70°-80°	1923.7	4.5
80°-90°	340.1	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°	42539.6	100.0
0°-180°	42539.6	100.0

Coefficient of Utilization



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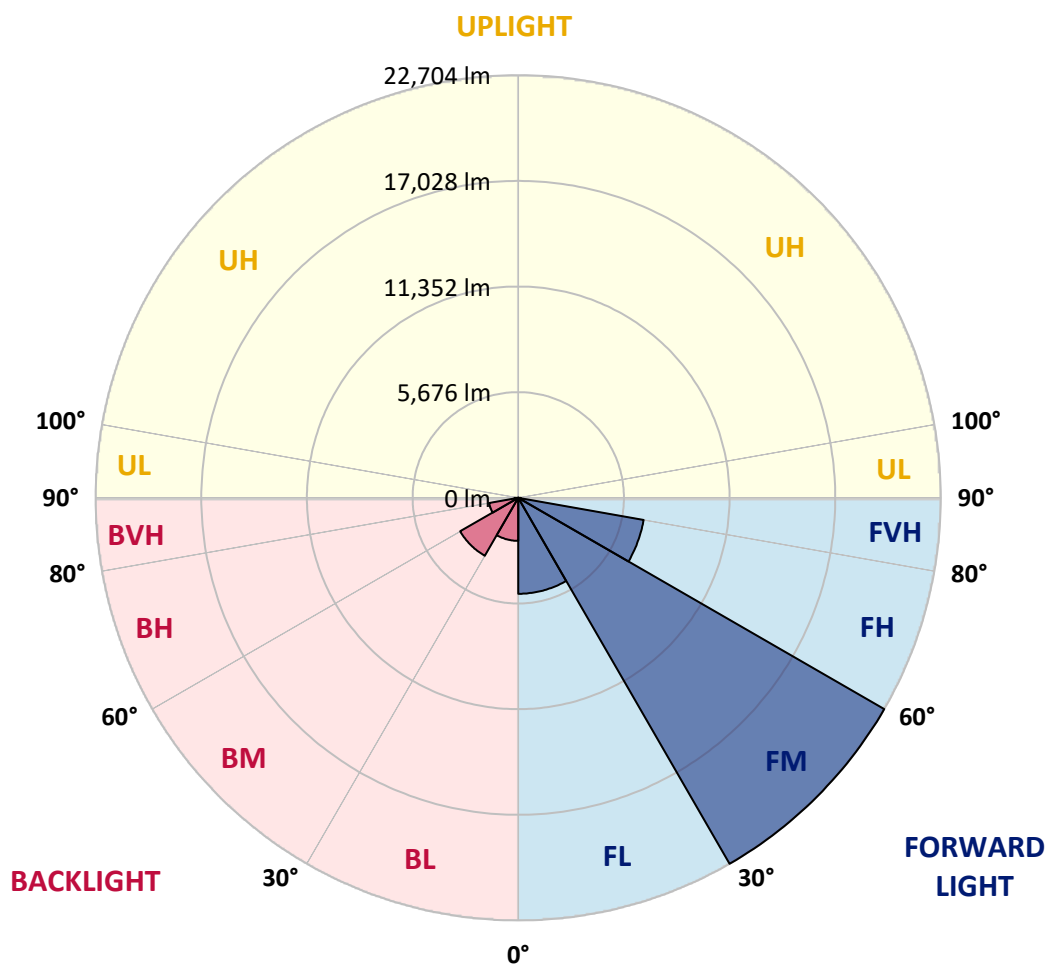
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5155.8	12.1			
FM	(30°-60°)	22703.7	53.4			
FH	(60°-80°)	6839.1	16.1			G3/7500
FVH	(80°-90°)	143.7	0.3			G2/225
BL	(0°-30°)	2313.6	5.4	B3/2500		
BM	(30°-60°)	3597.7	8.5	B3/5000		
BH	(60°-80°)	1589.7	3.7	B3/2500		G3/2500
BVH	(80°-90°)	196.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10659.1	10659.1	10659.1	10659.1	10659.1	10659.1	10659.1	10659.1	10659.1	10659.1	10659.1
2.5°	12229.2	12220.4	12268.7	12103.8	11991.7	11840.0	11639.8	11384.8	11109.9	10819.6	10694.2
5°	13330.9	13254.0	13304.5	13181.4	13058.3	12829.5	12532.7	12117.0	11609.0	11030.6	10722.8
7.5°	13157.2	13104.4	13234.2	13344.2	13436.5	13407.9	13190.2	12754.8	12099.4	11259.4	10812.9
10°	11756.3	11697.0	11879.5	12260.0	12818.5	13304.5	13568.4	13297.9	12600.8	11510.0	10901.0
12.5°	10520.5	10491.9	10612.8	10920.8	11540.9	12473.3	13520.1	13772.9	13122.0	11807.0	11019.7
15°	9992.7	9957.6	10034.4	10190.7	10586.5	11455.1	13080.2	14098.5	13634.4	12150.0	11208.8
17.5°	9876.2	9836.6	9869.5	9950.9	10206.0	10868.0	12416.1	14259.0	14168.8	12532.7	11367.1
20°	10091.6	10058.6	10063.0	10058.6	10236.8	10762.4	11954.3	14197.4	14635.0	12884.6	11521.1
22.5°	10612.8	10557.9	10560.1	10443.5	10540.3	10947.1	11833.3	14032.5	15050.6	13192.4	11637.6
25°	11461.7	11362.7	11382.5	11085.7	11059.2	11360.6	12022.4	13904.9	15464.1	13438.7	11659.6
27.5°	12622.9	12510.6	12451.3	12009.3	11798.2	11947.7	12407.3	13948.9	15855.5	13652.0	11604.6
30°	14074.3	13937.8	13816.9	13190.2	12807.6	12752.5	13005.5	14239.2	16317.3	13876.3	11510.0
32.5°	15853.3	15695.0	15475.0	14643.8	14105.0	13816.9	13779.6	14755.9	16858.3	14162.2	11461.7
35°	17971.0	17764.3	17452.1	16376.7	15695.0	15105.6	14800.0	15501.5	17599.4	14593.2	11516.7
37.5°	20152.5	19919.4	19633.6	18353.6	17515.8	16647.1	16044.6	16513.1	18586.7	15178.2	11661.8
40°	22164.7	21903.0	21636.9	20497.8	19598.4	18551.6	17568.6	17792.9	19794.1	15877.5	11908.1
42.5°	23352.3	23158.7	23057.6	22441.8	21746.9	20684.7	19464.2	19310.3	21151.0	16682.4	12189.6
45°	23299.5	23220.2	23532.6	23787.7	23622.8	23033.4	21685.3	20988.2	22512.2	17379.5	12449.1
47.5°	22054.7	22107.5	22804.6	24238.5	24869.6	25177.5	24214.3	22635.3	23695.3	17900.7	12565.7
50°	18668.1	18712.1	20326.3	23418.2	25190.7	26925.7	26723.5	24242.9	24612.3	18219.6	12539.2
52.5°	15987.4	16016.0	16708.7	20986.0	24130.8	27805.4	28984.1	25758.0	25283.1	18307.5	12391.9
55°	12042.2	12141.2	12917.5	16464.7	21373.0	27108.3	30360.7	27319.4	25707.5	18316.3	12238.0
57.5°	7034.9	7142.7	8101.5	11175.8	16612.0	24678.3	30569.7	28704.8	25995.5	18245.9	12145.6
60°	3445.9	3492.2	3910.0	5873.8	10243.4	19996.4	28889.5	29375.6	26156.1	18208.5	12141.2
62.5°	2322.2	2315.7	2333.2	2898.4	5046.9	12847.1	25388.6	28201.2	26070.4	18065.6	12097.3
65°	1996.8	1972.6	1906.6	2034.2	2614.8	5876.0	19615.9	24695.8	25417.1	17707.2	11796.0
67.5°	1726.3	1728.5	1730.7	1691.1	1867.0	2711.5	11987.3	19453.3	23073.0	16009.5	10634.9
70°	1429.5	1449.2	1458.0	1458.0	1521.8	1779.1	5117.3	13333.1	18199.7	12552.5	8565.5
72.5°	1301.9	1260.0	1264.4	1242.5	1242.5	1354.6	2060.6	7558.4	11466.1	7061.3	5227.3
75°	1062.2	1088.6	1093.0	1077.6	1026.9	1033.6	1222.7	3171.1	4906.2	2929.2	2583.9
77.5°	917.1	917.1	925.8	914.8	875.2	774.1	815.9	1229.3	1669.1	1200.7	1290.9
80°	736.7	734.5	771.9	793.9	732.3	571.7	521.2	679.5	741.1	527.8	670.8
82.5°	358.4	380.5	530.0	604.8	556.4	413.4	318.9	422.2	395.9	233.1	301.2
85°	208.9	197.9	237.5	336.5	318.9	228.7	154.0	219.9	206.7	118.8	121.0
87.5°	66.0	61.6	48.4	114.4	92.4	63.8	41.8	63.8	57.2	26.3	26.3
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°	10659.1	10659.1	10659.1	10659.1	10659.1	10659.1	10659.1	10659.1	10659.1	10659.1
2.5°	10538.1	10278.6	10021.3	9786.0	9643.1	9550.6	9458.3	9355.0	9315.4	9256.0
5°	10432.6	9931.1	9484.7	9099.8	8750.2	8475.3	8198.3	7973.9	7872.8	7941.0
7.5°	10370.9	9645.2	8957.0	8251.0	7571.5	7028.3	6555.5	6223.5	6073.9	6111.3
10°	10316.0	9322.0	8273.0	7158.1	6181.7	5508.8	5025.0	4772.1	4677.5	4697.3
12.5°	10265.4	8959.1	7448.4	5981.6	4943.6	4499.3	4360.9	4363.0	4380.6	4393.8
15°	10256.6	8521.5	6526.9	4952.4	4275.1	4246.5	4396.0	4490.5	4541.2	4556.5
17.5°	10243.4	7998.1	5587.9	4250.9	4112.3	4305.8	4444.4	4506.0	4545.6	4547.7
20°	10190.7	7334.0	4721.5	3916.6	4077.1	4244.2	4330.0	4378.4	4411.4	4422.4
22.5°	10027.9	6595.1	4046.3	3767.1	3936.4	4070.6	4171.6	4226.7	4246.5	4259.7
25°	9735.4	5768.2	3580.1	3624.1	3740.6	3910.0	3991.3	4002.3	3995.8	4015.5
27.5°	9352.7	4882.0	3289.8	3430.6	3580.1	3725.3	3769.2	3762.7	3749.4	3771.5
30°	8891.0	4086.0	3105.1	3212.9	3417.4	3549.4	3588.9	3573.6	3547.1	3571.3
32.5°	8402.7	3435.0	2953.4	3061.2	3283.3	3413.0	3452.6	3437.2	3417.4	3437.2
35°	7947.5	2979.8	2812.6	2960.0	3177.7	3305.2	3355.8	3358.0	3358.0	3382.2
37.5°	7529.8	2713.7	2696.1	2896.2	3105.1	3219.5	3292.1	3296.4	3201.9	3208.5
40°	7142.7	2601.6	2643.3	2854.4	3034.7	3144.7	3149.1	2902.8	2729.1	2724.7
42.5°	6826.0	2579.5	2658.7	2850.0	2984.2	2988.6	2678.5	2487.2	2438.8	2441.0
45°	6529.1	2573.0	2693.9	2850.0	2909.4	2581.8	2372.9	2322.2	2326.6	2344.3
47.5°	6197.0	2546.5	2700.5	2810.4	2693.9	2295.9	2234.3	2212.3	2203.5	2207.8
50°	5834.2	2452.0	2616.9	2731.3	2324.5	2172.7	2095.7	2089.2	2100.1	2106.8
52.5°	5451.6	2298.0	2473.9	2588.3	2155.2	2065.0	1979.2	1994.5	2042.9	2058.4
55°	5200.8	2117.8	2284.8	2302.5	2036.4	1963.8	1891.2	1926.4	2016.6	2045.2
57.5°	5134.9	1926.4	2069.4	2049.6	1884.7	1875.9	1831.9	1862.6	1977.0	2018.7
60°	5115.1	1754.9	1858.2	1842.8	1737.3	1779.1	1768.1	1783.5	1823.1	1836.3
62.5°	4961.2	1618.6	1669.1	1647.2	1605.4	1677.9	1704.3	1671.4	1702.1	1717.5
65°	4569.8	1508.6	1484.4	1469.0	1486.6	1552.6	1605.4	1539.3	1567.9	1611.9
67.5°	3923.2	1359.0	1293.0	1310.7	1365.6	1400.9	1469.0	1394.2	1418.4	1493.2
70°	3173.3	1169.9	1110.6	1161.1	1213.9	1286.5	1297.4	1246.9	1304.1	1387.6
72.5°	2245.3	978.6	936.8	1040.2	1057.8	1152.3	1128.1	1103.9	1183.2	1211.7
75°	1557.0	789.5	765.3	844.5	908.3	989.6	972.0	1000.6	1167.7	1180.9
77.5°	985.2	613.6	598.2	648.7	736.7	826.9	855.5	1180.9	1994.5	2073.8
80°	571.7	457.5	439.8	479.4	556.4	639.9	824.6	1449.2	1315.1	1299.7
82.5°	318.9	314.5	292.4	303.5	371.7	461.8	1165.5	1020.4	829.0	855.5
85°	149.5	184.7	158.4	151.7	208.9	541.0	778.5	582.7	387.0	378.2
87.5°	39.6	35.2	35.2	39.6	87.9	466.2	310.1	248.5	147.3	143.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)