

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: P969979

Luminaire Tested: **NAV-SB6A-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969979
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-SB6A-830-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25479.4 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 170.9
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



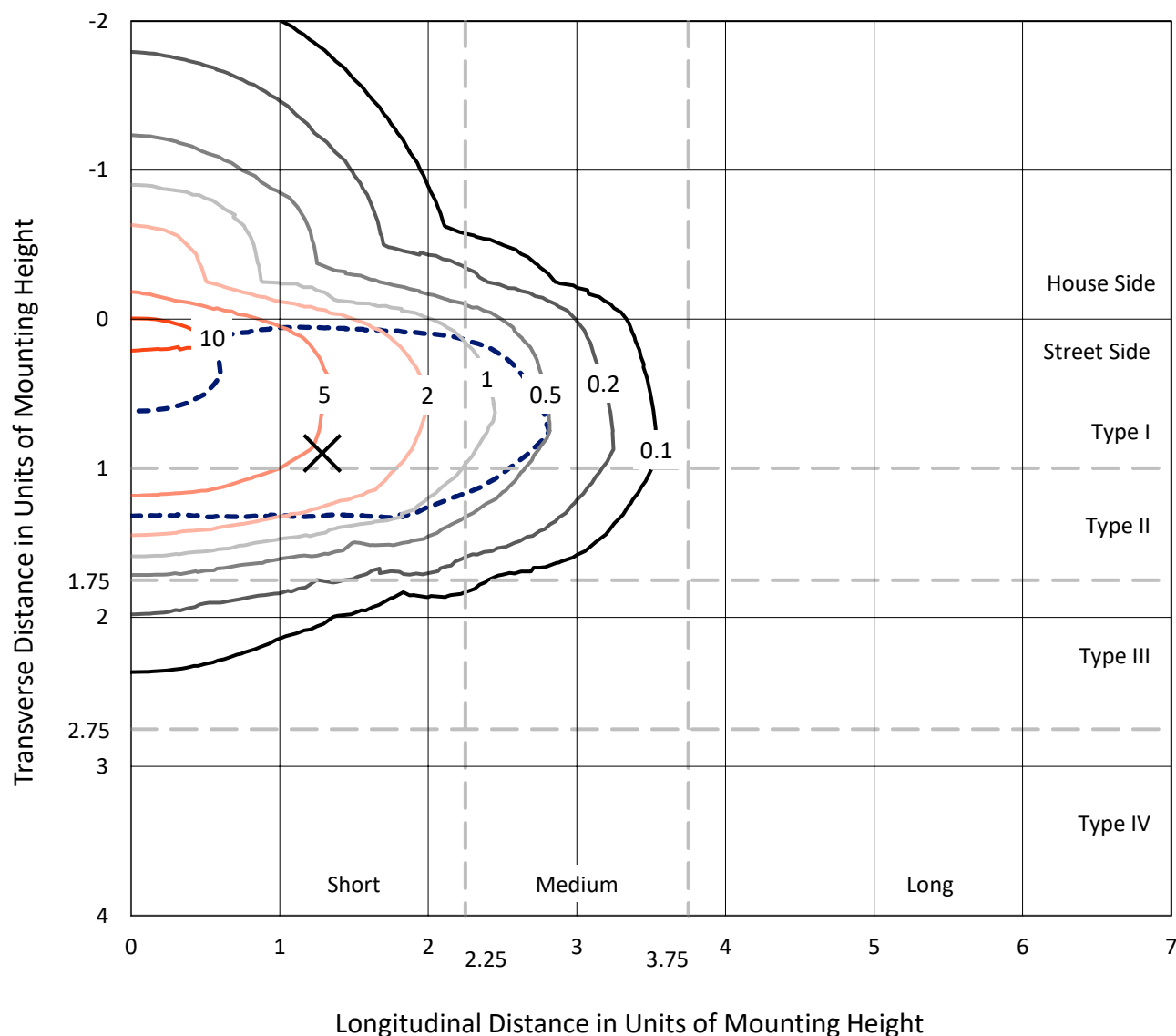
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



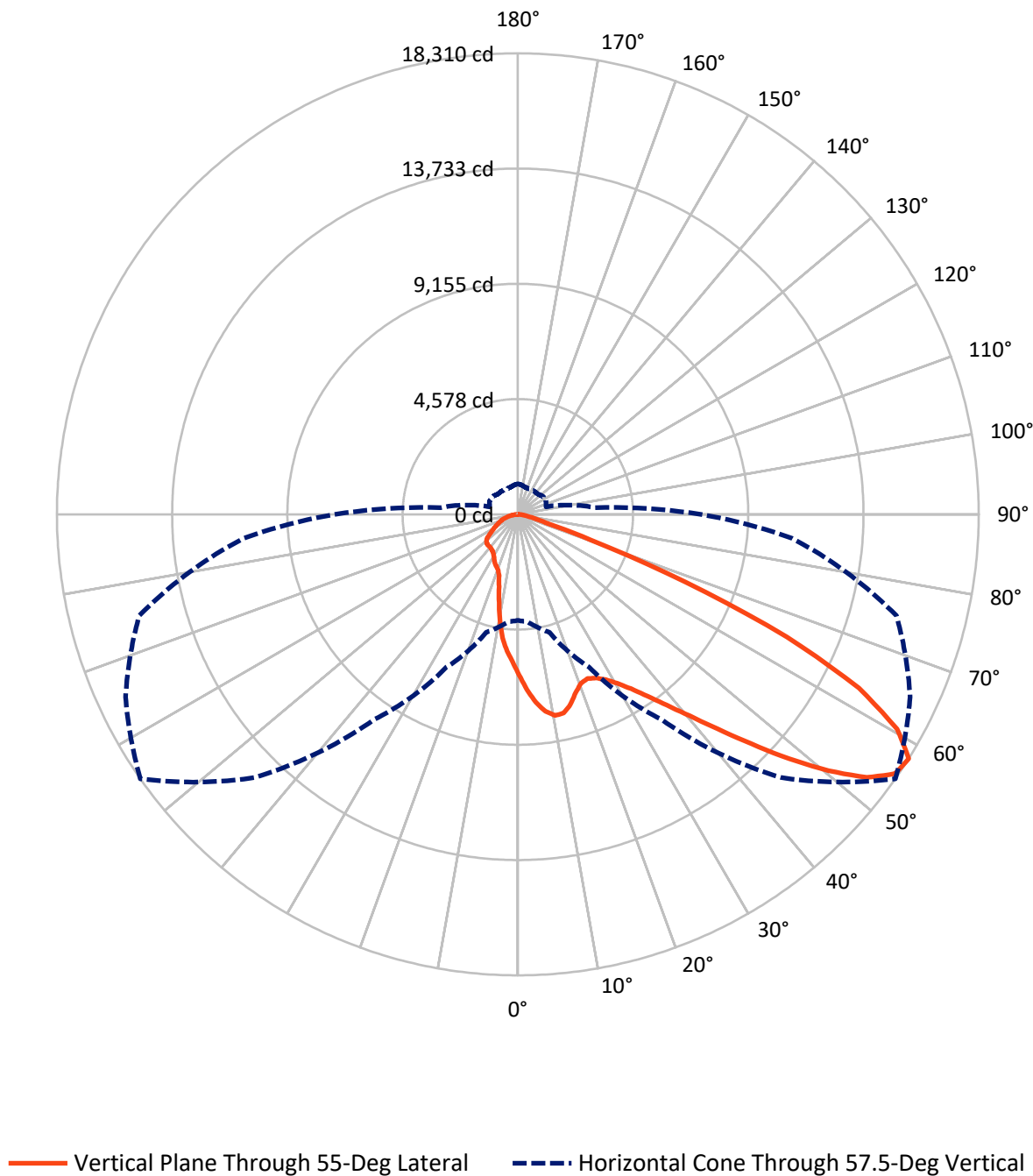
Based on 25 foot mounting height. Maximum calculated value = 12.3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4610.4	0.0	4610.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20869.1	0.0	20869.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	25479.4	0.0	25479.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.4	2.3
10°-20°	1495.3	5.9
20°-30°	2386.1	9.4
30°-40°	3777.8	14.8
40°-50°	5782.3	22.7
50°-60°	6193.4	24.3
60°-70°	3896.3	15.3
70°-80°	1152.2	4.5
80°-90°	203.7	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°	25479.4	100.0
0°-180°	25479.4	100.0

Coefficient of Utilization



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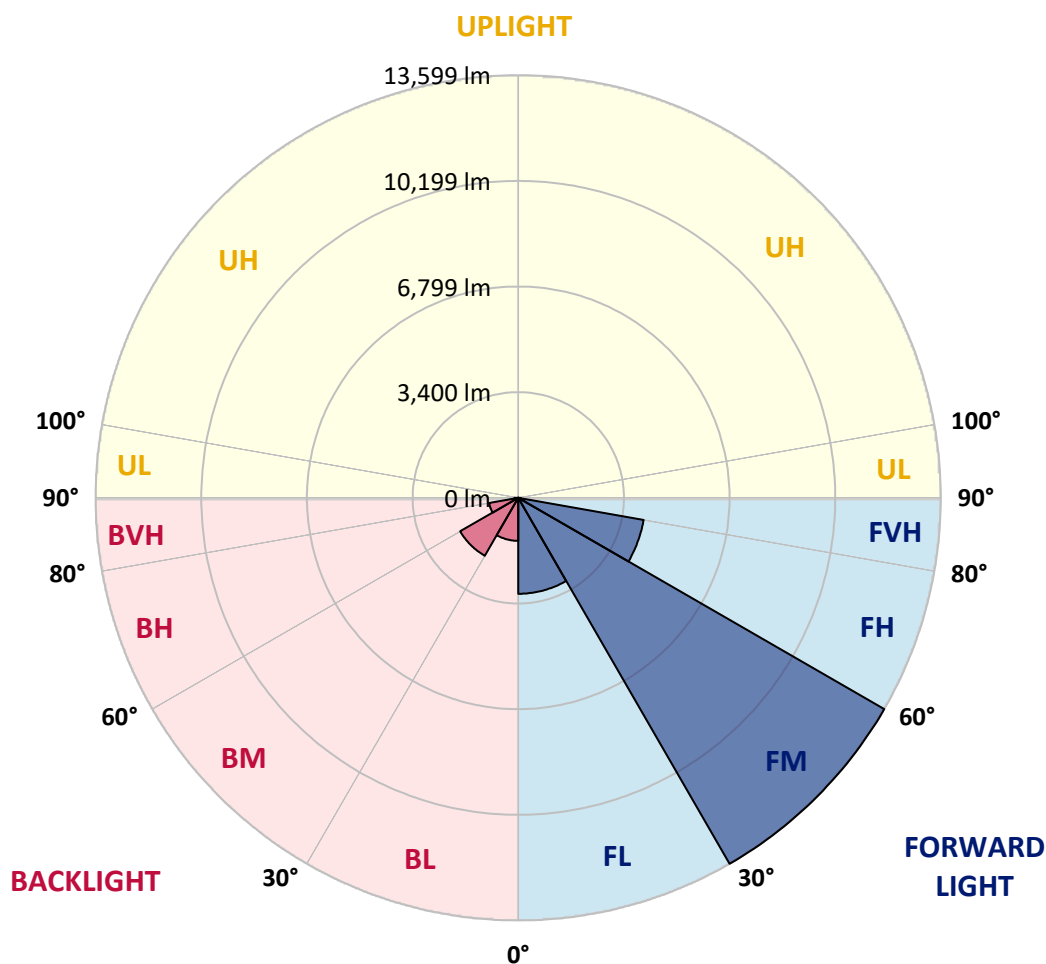
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3088.1	12.1			
FM	(30°-60°)	13598.6	53.4			
FH	(60°-80°)	4096.3	16.1			G2/5000
FVH	(80°-90°)	86.1	0.3			G1/100
BL	(0°-30°)	1385.7	5.4	B3/2500		
BM	(30°-60°)	2154.8	8.5	B2/2500		
BH	(60°-80°)	952.2	3.7	B2/1000		G2/1000
BVH	(80°-90°)	117.6	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3
2.5°	7324.8	7319.5	7348.5	7249.7	7182.5	7091.7	6971.7	6819.0	6654.3	6480.5	6405.4
5°	7984.6	7938.6	7968.9	7895.2	7821.4	7684.3	7506.6	7257.6	6953.3	6606.9	6422.5
7.5°	7880.6	7849.0	7926.7	7992.5	8047.9	8030.8	7900.4	7639.6	7247.1	6743.9	6476.6
10°	7041.5	7006.0	7115.3	7343.2	7677.8	7968.9	8126.9	7965.0	7547.4	6894.0	6529.2
12.5°	6301.4	6284.2	6356.6	6541.0	6912.5	7471.0	8098.0	8249.4	7859.6	7071.9	6600.4
15°	5985.2	5964.2	6010.3	6103.8	6340.9	6861.1	7834.5	8444.4	8166.5	7277.4	6713.6
17.5°	5915.4	5891.7	5911.5	5960.2	6113.0	6509.5	7436.8	8540.5	8486.5	7506.6	6808.5
20°	6044.5	6024.7	6027.4	6024.7	6131.4	6446.2	7160.1	8503.6	8765.8	7717.3	6900.6
22.5°	6356.6	6323.7	6325.1	6255.3	6313.2	6556.8	7087.7	8404.9	9014.7	7901.7	6970.5
25°	6865.0	6805.8	6817.7	6639.8	6624.1	6804.5	7200.9	8328.4	9262.3	8049.2	6983.6
27.5°	7560.6	7493.4	7457.8	7193.0	7066.7	7156.1	7431.5	8354.8	9496.8	8177.0	6950.7
30°	8429.9	8348.2	8275.7	7900.4	7671.2	7638.3	7789.7	8528.7	9773.4	8311.3	6894.0
32.5°	9495.5	9400.7	9269.0	8771.0	8448.4	8275.7	8253.4	8838.2	10097.4	8482.6	6865.0
35°	10763.9	10640.1	10453.1	9808.9	9400.7	9047.7	8864.5	9284.8	10541.3	8740.8	6898.0
37.5°	12070.5	11930.9	11759.7	10993.1	10491.3	9971.0	9610.1	9890.6	11132.7	9091.1	6985.0
40°	13275.8	13119.0	12959.6	12277.3	11738.6	11111.6	10522.9	10657.2	11855.9	9509.9	7132.5
42.5°	13987.0	13871.1	13810.5	13441.7	13025.5	12389.3	11658.2	11566.1	12668.6	9992.0	7301.1
45°	13955.4	13908.0	14095.1	14247.8	14149.0	13796.1	12988.6	12571.1	13483.9	10409.6	7456.5
47.5°	13209.9	13241.5	13659.0	14517.9	14895.9	15080.3	14503.3	13557.7	14192.5	10721.8	7526.3
50°	11181.4	11207.8	12174.6	14026.5	15088.2	16127.5	16006.3	14520.5	14741.8	10912.8	7510.5
52.5°	9575.9	9593.0	10007.9	12569.8	14453.3	16654.3	17360.3	15428.0	15143.6	10965.4	7422.2
55°	7212.8	7272.1	7737.0	9861.6	12801.5	16236.7	18184.8	16363.2	15397.8	10970.7	7330.1
57.5°	4213.7	4278.1	4852.5	6693.9	9949.9	14781.3	18310.0	17193.0	15570.3	10928.6	7274.7
60°	2064.0	2091.6	2341.9	3518.2	6135.3	11977.0	17303.6	17594.7	15666.4	10906.2	7272.1
62.5°	1390.9	1387.0	1397.5	1736.0	3022.9	7694.9	15206.7	16891.4	15615.1	10820.5	7245.7
65°	1196.0	1181.5	1142.0	1218.4	1566.1	3519.4	11749.2	14791.8	15223.8	10605.9	7065.3
67.5°	1034.0	1035.2	1036.6	1012.9	1118.3	1624.1	7179.9	11651.7	13819.8	9589.0	6369.9
70°	856.2	868.0	873.3	873.3	911.5	1065.6	3065.1	7986.0	10900.9	7518.4	5130.3
72.5°	779.7	754.7	757.4	744.2	744.2	811.4	1234.2	4527.1	6867.7	4229.5	3130.9
75°	636.2	652.0	654.7	645.4	615.1	619.1	732.4	1899.3	2938.6	1754.5	1547.6
77.5°	549.3	549.3	554.5	548.0	524.2	463.6	488.7	736.3	999.7	719.1	773.2
80°	441.3	439.9	462.4	475.5	438.6	342.5	312.2	407.0	443.9	316.1	401.7
82.5°	214.7	227.9	317.4	362.2	333.2	247.6	191.0	252.9	237.1	139.6	180.5
85°	125.2	118.6	142.3	201.5	191.0	136.9	92.2	131.7	123.8	71.1	72.5
87.5°	39.6	36.9	29.0	68.5	55.4	38.2	25.0	38.2	34.2	15.8	15.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3	6384.3
2.5°	6311.8	6156.5	6002.3	5861.4	5775.8	5720.4	5665.2	5603.3	5579.5	5543.9
5°	6248.6	5948.4	5681.0	5450.4	5241.0	5076.4	4910.4	4776.1	4715.5	4756.3
7.5°	6211.8	5777.1	5364.8	4942.0	4535.0	4209.7	3926.5	3727.6	3638.0	3660.4
10°	6178.8	5583.5	4955.2	4287.4	3702.6	3299.5	3009.7	2858.2	2801.6	2813.5
12.5°	6148.6	5366.2	4461.2	3582.7	2961.0	2694.9	2611.9	2613.2	2623.8	2631.7
15°	6143.2	5104.0	3909.3	2966.2	2560.6	2543.4	2633.0	2689.7	2719.9	2729.2
17.5°	6135.3	4790.5	3346.9	2546.1	2463.1	2579.0	2662.0	2698.9	2722.6	2723.9
20°	6103.8	4392.7	2828.0	2345.9	2442.1	2542.1	2593.6	2622.5	2642.2	2648.8
22.5°	6006.3	3950.1	2423.6	2256.3	2357.7	2438.1	2498.6	2531.6	2543.4	2551.3
25°	5831.1	3455.0	2144.4	2170.7	2240.5	2341.9	2390.7	2397.3	2393.3	2405.2
27.5°	5601.9	2924.1	1970.5	2054.8	2144.4	2231.3	2257.7	2253.7	2245.8	2259.0
30°	5325.3	2447.3	1859.9	1924.3	2046.9	2126.0	2149.6	2140.4	2124.6	2139.1
32.5°	5033.0	2057.4	1768.9	1833.5	1966.6	2044.3	2067.9	2058.7	2046.9	2058.7
35°	4760.2	1784.7	1684.7	1772.9	1903.3	1979.7	2010.0	2011.4	2011.4	2025.8
37.5°	4510.0	1625.3	1614.9	1734.7	1859.9	1928.3	1971.8	1974.5	1917.8	1921.8
40°	4278.1	1558.2	1583.2	1709.7	1817.7	1883.5	1886.2	1738.7	1634.6	1632.0
42.5°	4088.5	1545.1	1592.4	1707.0	1787.4	1790.1	1604.3	1489.7	1460.7	1462.1
45°	3910.7	1541.1	1613.6	1707.0	1742.6	1546.3	1421.3	1390.9	1393.6	1404.1
47.5°	3711.8	1525.3	1617.4	1683.4	1613.6	1375.1	1338.2	1325.1	1319.8	1322.5
50°	3494.4	1468.6	1567.4	1635.9	1392.3	1301.3	1255.2	1251.3	1257.9	1261.9
52.5°	3265.2	1376.5	1481.8	1550.3	1290.8	1236.9	1185.4	1194.6	1223.6	1232.9
55°	3115.1	1268.4	1368.6	1379.0	1219.8	1176.2	1132.7	1153.8	1207.9	1225.0
57.5°	3075.6	1153.8	1239.4	1227.6	1128.8	1123.5	1097.2	1115.6	1184.2	1209.2
60°	3063.7	1051.1	1113.0	1103.8	1040.6	1065.6	1059.0	1068.3	1091.9	1099.8
62.5°	2971.6	969.4	999.7	986.6	961.6	1005.0	1020.8	1001.0	1019.5	1028.7
65°	2737.1	903.5	889.1	879.9	890.4	929.9	961.6	922.0	939.1	965.4
67.5°	2349.8	814.1	774.5	785.0	817.9	839.1	879.9	835.1	849.6	894.3
70°	1900.7	700.7	665.1	695.5	727.0	770.6	777.2	746.8	781.0	831.2
72.5°	1344.8	586.1	561.1	623.0	633.6	690.2	675.7	661.2	708.7	725.8
75°	932.5	472.8	458.4	505.8	544.0	592.8	582.2	599.3	699.5	707.4
77.5°	590.1	367.5	358.2	388.6	441.3	495.3	512.4	707.4	1194.6	1242.1
80°	342.5	274.0	263.4	287.1	333.2	383.2	493.9	868.0	787.7	778.5
82.5°	191.0	188.4	175.2	181.7	222.6	276.6	698.1	611.2	496.6	512.4
85°	89.6	110.6	94.8	90.9	125.2	324.0	466.3	349.0	231.9	226.5
87.5°	23.7	21.1	21.1	23.7	52.7	279.2	185.7	148.8	88.3	85.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)