

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: P970475

Luminaire Tested: **NAV-SB6B-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970475
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-SB6B-827-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30954 lumens
Efficiency: N/A
Efficacy: 140.4 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): 220.4
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

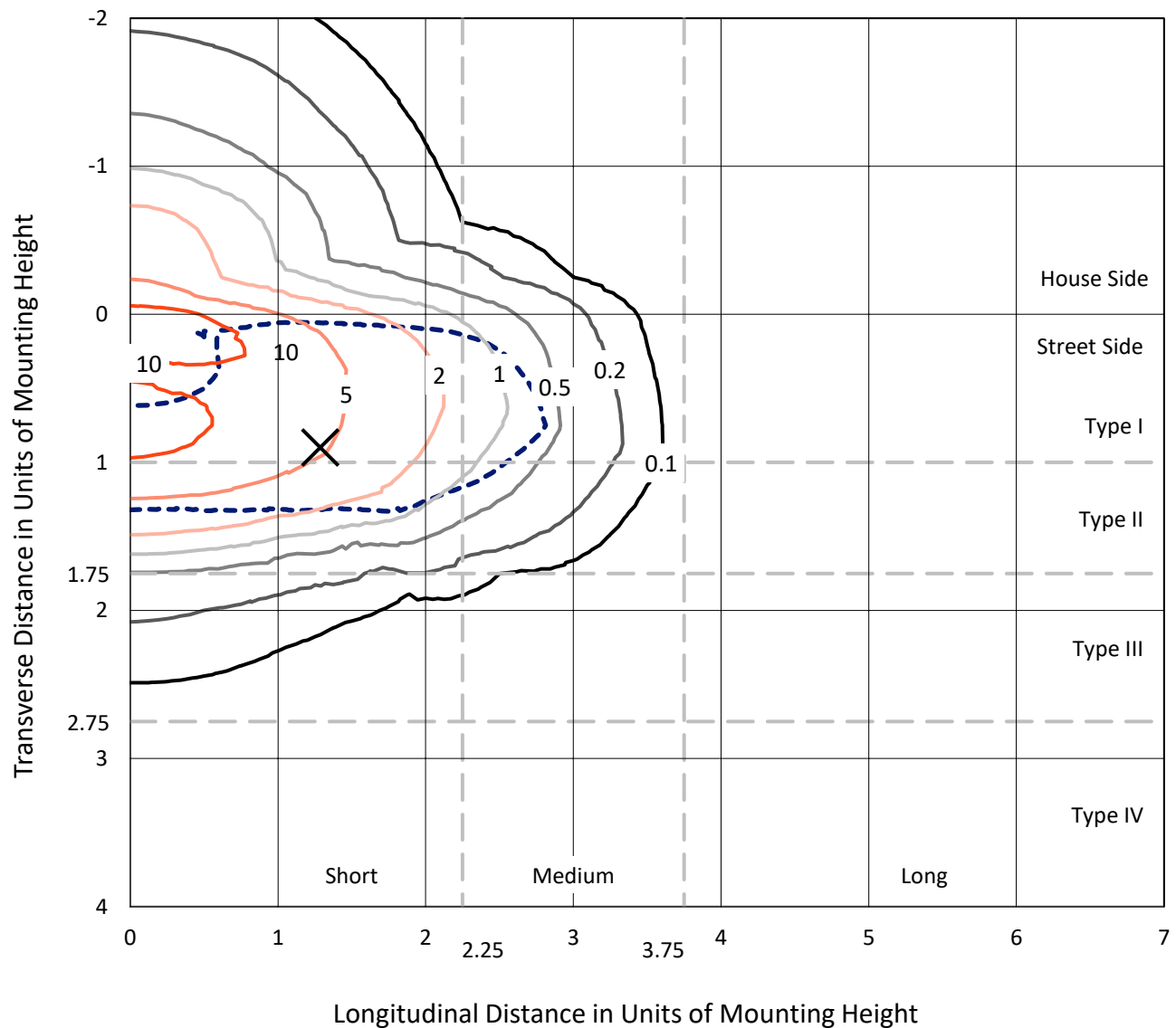


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



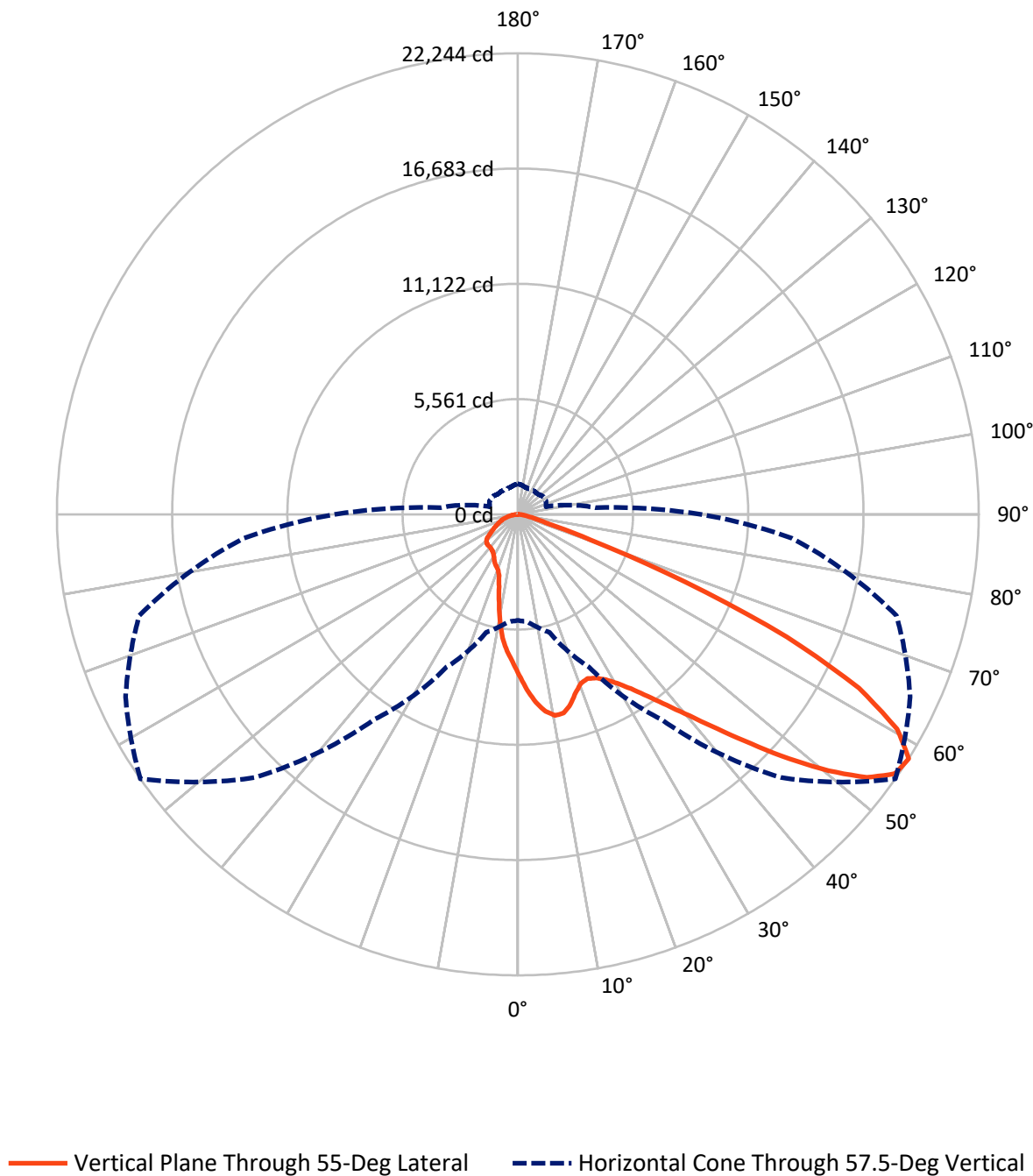
Based on 25 foot mounting height. Maximum calculated value = 15 fc

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	5601.0	0.0	5601.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	25353.0	0.0	25353.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	30954.0	0.0	30954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.7	2.3
10°-20°	1816.6	5.9
20°-30°	2898.8	9.4
30°-40°	4589.5	14.8
40°-50°	7024.7	22.7
50°-60°	7524.1	24.3
60°-70°	4733.4	15.3
70°-80°	1399.8	4.5
80°-90°	247.5	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°	30954.0	100.0
0°-180°	30954.0	100.0

Coefficient of Utilization



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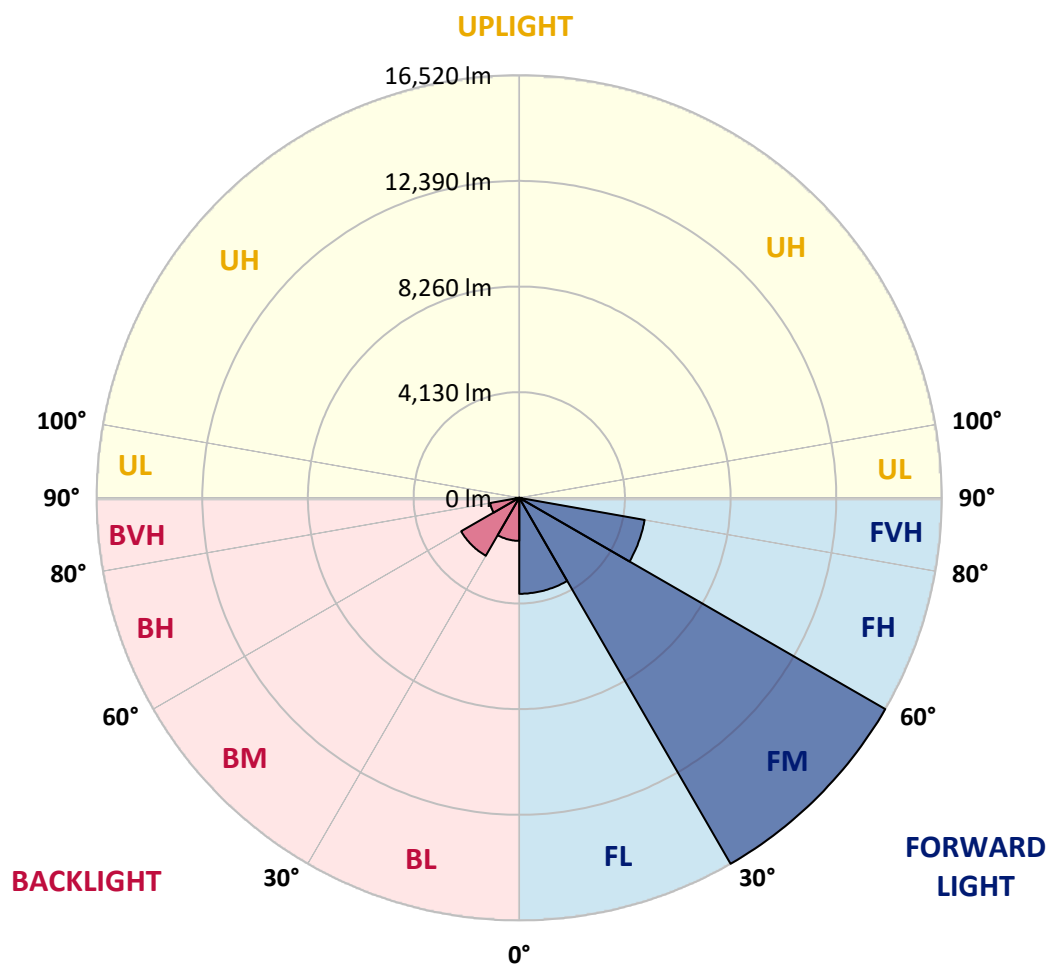
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3751.6	12.1			
FM	(30°-60°)	16520.4	53.4			
FH	(60°-80°)	4976.4	16.1			G2/5000
FVH	(80°-90°)	104.6	0.3			G2/225
BL	(0°-30°)	1683.5	5.4	B3/2500		
BM	(30°-60°)	2617.8	8.5	B3/5000		
BH	(60°-80°)	1156.7	3.7	B3/2500		G3/2500
BVH	(80°-90°)	142.9	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°	7756.1	7756.1	7756.1	7756.1	7756.1	7756.1	7756.1	7756.1	7756.1	7756.1	7756.1
2.5°	8898.5	8892.2	8927.4	8807.4	8725.7	8615.3	8469.8	8284.2	8084.1	7872.9	7781.7
5°	9700.3	9644.2	9681.1	9591.4	9501.9	9335.4	9119.4	8816.9	8447.3	8026.5	7802.5
7.5°	9573.9	9535.5	9629.9	9709.9	9777.1	9756.3	9597.9	9281.1	8804.1	8192.9	7868.1
10°	8554.5	8511.4	8644.1	8921.0	9327.4	9681.1	9873.1	9676.3	9169.0	8375.4	7932.1
12.5°	7655.2	7634.4	7722.5	7946.5	8397.7	9076.2	9837.8	10021.9	9548.3	8591.3	8018.5
15°	7271.2	7245.6	7301.6	7415.3	7703.3	8335.3	9517.8	10258.7	9921.1	8840.9	8156.1
17.5°	7186.4	7157.6	7181.6	7240.8	7426.4	7908.1	9034.6	10375.6	10310.0	9119.4	8271.3
20°	7343.2	7319.2	7322.4	7319.2	7448.8	7831.3	8698.6	10330.8	10649.1	9375.5	8383.4
22.5°	7722.5	7682.5	7684.0	7599.2	7669.7	7965.7	8610.5	10210.7	10951.6	9599.4	8468.1
25°	8340.1	8268.2	8282.5	8066.5	8047.3	8266.5	8748.2	10117.9	11252.4	9778.7	8484.1
27.5°	9185.0	9103.4	9060.2	8738.5	8585.0	8693.7	9028.2	10150.0	11537.3	9933.9	8444.2
30°	10241.2	10142.0	10053.9	9597.9	9319.4	9279.4	9463.4	10361.1	11873.3	10097.2	8375.4
32.5°	11535.7	11420.4	11260.4	10655.6	10263.5	10053.9	10026.8	10737.2	12267.0	10305.1	8340.1
35°	13076.6	12926.3	12699.0	11916.5	11420.4	10991.6	10769.2	11279.6	12806.2	10618.8	8380.1
37.5°	14664.1	14494.4	14286.3	13355.0	12745.5	12113.3	11674.9	12015.8	13524.7	11044.5	8485.8
40°	16128.2	15937.7	15744.1	14915.3	14260.8	13499.1	12783.8	12947.1	14403.2	11553.3	8664.9
42.5°	16992.2	16851.5	16777.8	16329.8	15824.2	15051.3	14163.1	14051.1	15390.5	12139.0	8869.7
45°	16953.9	16896.3	17123.5	17309.1	17189.1	16760.3	15779.4	15272.1	16381.0	12646.2	9058.6
47.5°	16048.2	16086.6	16593.8	17637.2	18096.4	18320.4	17619.5	16470.6	17241.9	13025.5	9143.4
50°	13583.9	13615.9	14790.4	17040.3	18330.1	19592.6	19445.4	17640.4	17909.2	13257.5	9124.2
52.5°	11633.3	11654.0	12158.1	15270.4	17558.8	20232.7	21090.3	18742.8	18397.2	13321.5	9017.0
55°	8762.6	8834.6	9399.5	11980.5	15552.1	19725.4	22092.0	19879.1	18706.0	13327.9	8905.0
57.5°	5119.0	5197.4	5895.1	8132.1	12087.7	17957.2	22244.0	20887.1	18915.7	13276.7	8837.8
60°	2507.5	2541.1	2845.1	4274.0	7453.6	14550.4	21021.5	21375.1	19032.5	13249.5	8834.6
62.5°	1689.8	1685.0	1697.8	2109.0	3672.4	9348.2	18474.1	20520.7	18970.1	13145.4	8802.6
65°	1452.9	1435.4	1387.3	1480.2	1902.6	4275.7	14273.5	17970.0	18494.9	12884.7	8583.3
67.5°	1256.1	1257.8	1259.3	1230.5	1358.5	1973.0	8722.5	14155.1	16789.1	11649.3	7738.4
70°	1040.1	1054.5	1060.9	1060.9	1107.3	1294.6	3723.6	9701.8	13243.1	9133.8	6232.7
72.5°	947.3	916.9	920.1	904.0	904.0	985.7	1499.4	5499.8	8343.3	5138.1	3803.7
75°	772.8	792.1	795.3	784.1	747.3	752.0	889.7	2307.5	3570.0	2131.5	1880.3
77.5°	667.3	667.3	673.6	665.6	636.8	563.2	593.7	894.5	1214.5	873.7	939.3
80°	536.1	534.4	561.7	577.7	532.9	416.0	379.2	494.5	539.3	384.1	488.1
82.5°	260.9	276.9	385.6	440.0	404.9	300.8	232.1	307.2	288.0	169.6	219.2
85°	152.0	144.0	172.8	244.9	232.1	166.5	112.0	160.0	150.4	86.4	88.0
87.5°	48.0	44.8	35.2	83.2	67.2	46.4	30.4	46.4	41.6	19.2	19.2
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°	7756.1	7756.1	7756.1	7756.1	7756.1	7756.1	7756.1	7756.1	7756.1	7756.1
2.5°	7668.0	7479.2	7292.1	7120.8	7016.7	6949.6	6882.4	6807.1	6778.3	6735.2
5°	7591.3	7226.4	6901.5	6621.5	6367.1	6167.1	5965.5	5802.2	5728.6	5778.2
7.5°	7546.5	7018.4	6517.6	6003.8	5509.4	5114.1	4770.1	4528.6	4419.7	4446.9
10°	7506.4	6783.1	6019.8	5208.5	4498.1	4008.5	3656.4	3472.4	3403.6	3418.0
12.5°	7469.6	6519.1	5419.8	4352.5	3597.2	3274.0	3173.2	3174.7	3187.5	3197.2
15°	7463.2	6200.7	4749.3	3603.6	3110.8	3090.0	3198.7	3267.6	3304.4	3315.6
17.5°	7453.6	5819.8	4066.1	3093.1	2992.3	3133.1	3234.0	3278.8	3307.6	3309.2
20°	7415.3	5336.6	3435.6	2849.9	2966.8	3088.3	3150.7	3185.9	3210.0	3218.0
22.5°	7296.8	4798.9	2944.3	2741.1	2864.4	2961.9	3035.5	3075.5	3090.0	3099.5
25°	7084.0	4197.3	2605.1	2637.1	2721.9	2845.1	2904.3	2912.3	2907.5	2922.0
27.5°	6805.6	3552.4	2393.9	2496.3	2605.1	2710.7	2742.7	2737.9	2728.3	2744.3
30°	6469.5	2973.1	2259.4	2337.8	2486.6	2582.7	2611.5	2600.3	2581.1	2598.7
32.5°	6114.3	2499.5	2149.0	2227.4	2389.1	2483.5	2512.3	2501.1	2486.6	2501.1
35°	5783.0	2168.3	2046.6	2153.8	2312.3	2405.1	2441.9	2443.5	2443.5	2461.0
37.5°	5479.0	1974.7	1961.8	2107.4	2259.4	2342.6	2395.4	2398.7	2329.8	2334.6
40°	5197.4	1893.0	1923.4	2077.1	2208.3	2288.2	2291.5	2112.2	1985.8	1982.7
42.5°	4966.9	1877.0	1934.6	2073.8	2171.5	2174.6	1949.0	1809.8	1774.6	1776.2
45°	4751.0	1872.2	1960.2	2073.8	2117.0	1878.6	1726.6	1689.8	1693.0	1705.8
47.5°	4509.3	1853.0	1965.0	2045.0	1960.2	1670.5	1625.8	1609.8	1603.4	1606.6
50°	4245.2	1784.2	1904.2	1987.4	1691.4	1581.0	1525.0	1520.2	1528.2	1533.0
52.5°	3966.9	1672.2	1800.2	1883.4	1568.1	1502.5	1440.1	1451.4	1486.6	1497.7
55°	3784.4	1541.0	1662.6	1675.4	1481.7	1429.0	1376.2	1401.8	1467.4	1488.2
57.5°	3736.4	1401.8	1505.7	1491.4	1371.3	1365.0	1332.9	1355.4	1438.6	1468.9
60°	3722.0	1276.9	1352.2	1340.9	1264.1	1294.6	1286.6	1297.8	1326.6	1336.2
62.5°	3610.0	1177.7	1214.5	1198.5	1168.1	1221.0	1240.1	1216.2	1238.5	1249.8
65°	3325.2	1097.7	1080.1	1068.9	1081.7	1129.8	1168.1	1120.1	1140.9	1172.9
67.5°	2854.7	988.9	941.0	953.7	993.7	1019.4	1068.9	1014.5	1032.1	1086.5
70°	2309.0	851.3	808.1	844.9	883.3	936.1	944.1	907.3	948.9	1009.7
72.5°	1633.7	712.1	681.6	756.9	769.7	838.4	820.9	803.3	860.9	881.7
75°	1132.9	574.5	556.9	614.5	660.9	720.1	707.2	728.1	849.7	859.3
77.5°	716.9	446.5	435.2	472.0	536.1	601.7	622.5	859.3	1451.4	1509.0
80°	416.0	332.8	320.0	348.8	404.9	465.7	600.0	1054.5	956.9	945.7
82.5°	232.1	228.8	212.8	220.8	270.4	336.0	848.1	742.5	603.3	622.5
85°	108.9	134.4	115.2	110.4	152.0	393.6	566.4	424.0	281.7	275.2
87.5°	28.8	25.6	25.6	28.8	64.0	339.3	225.6	180.8	107.2	104.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)