

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: P970003

Luminaire Tested: **NAV-SB6A-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-830-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24762 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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



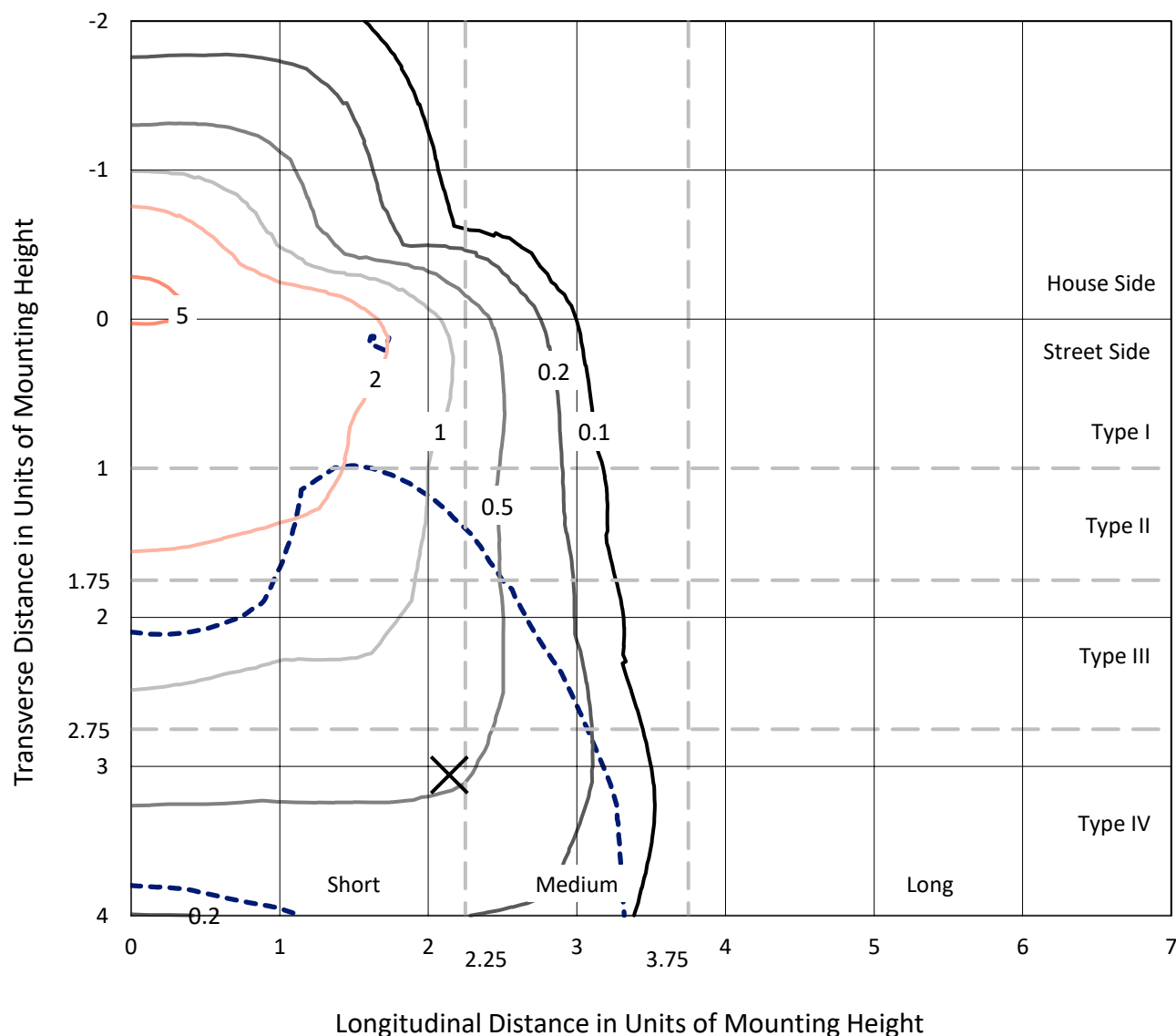
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

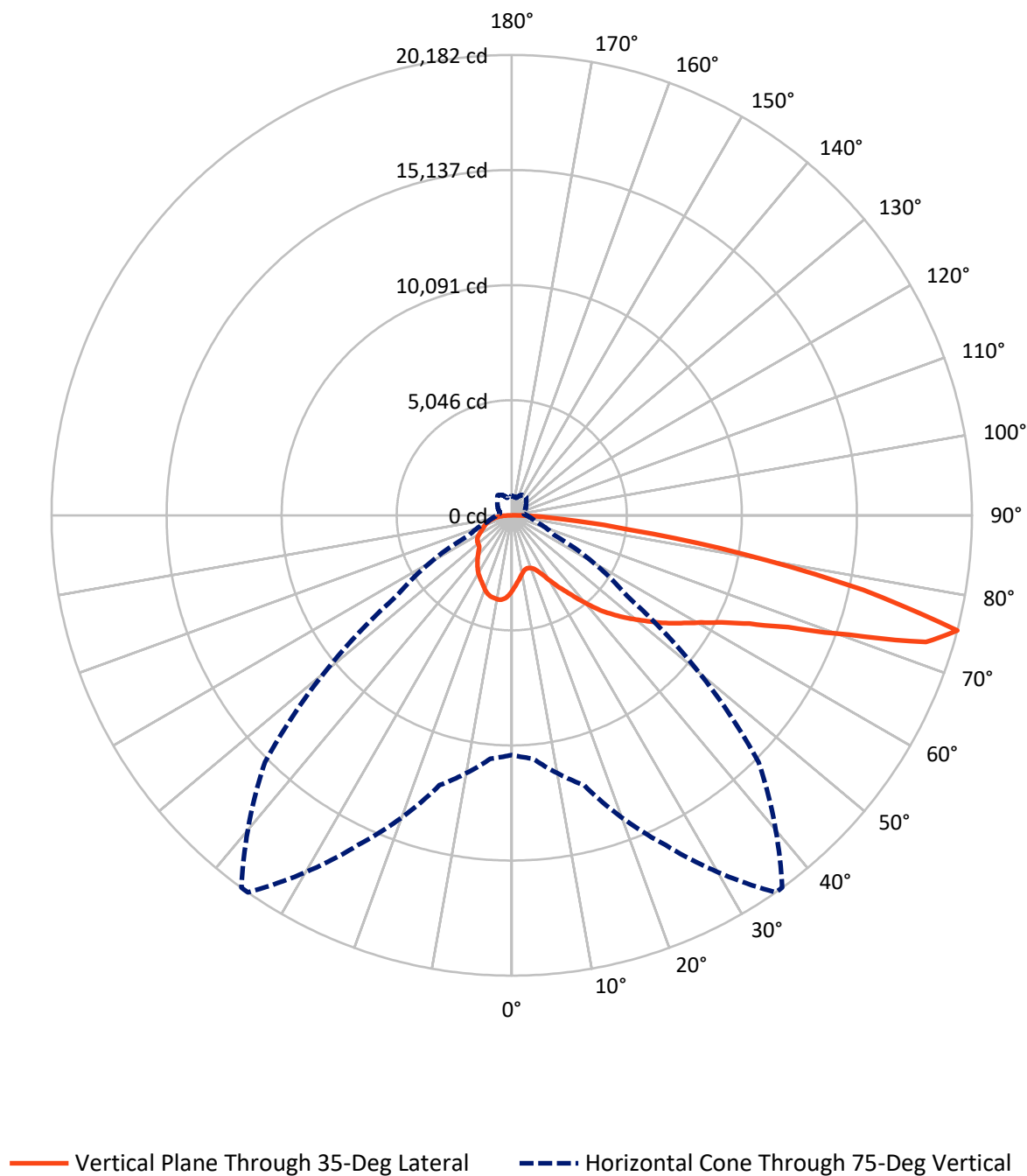


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5892.7	0.0	5892.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	18869.2	0.0	18869.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	24762.0	0.0	24762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.4	1.3
10°-20°	901.1	3.6
20°-30°	1513.2	6.1
30°-40°	2351.8	9.5
40°-50°	3490.7	14.1
50°-60°	4819.1	19.5
60°-70°	5846.7	23.6
70°-80°	4831.9	19.5
80°-90°	695.0	2.8
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°	24762.0	100.0
0°-180°	24762.0	100.0

Coefficient of Utilization



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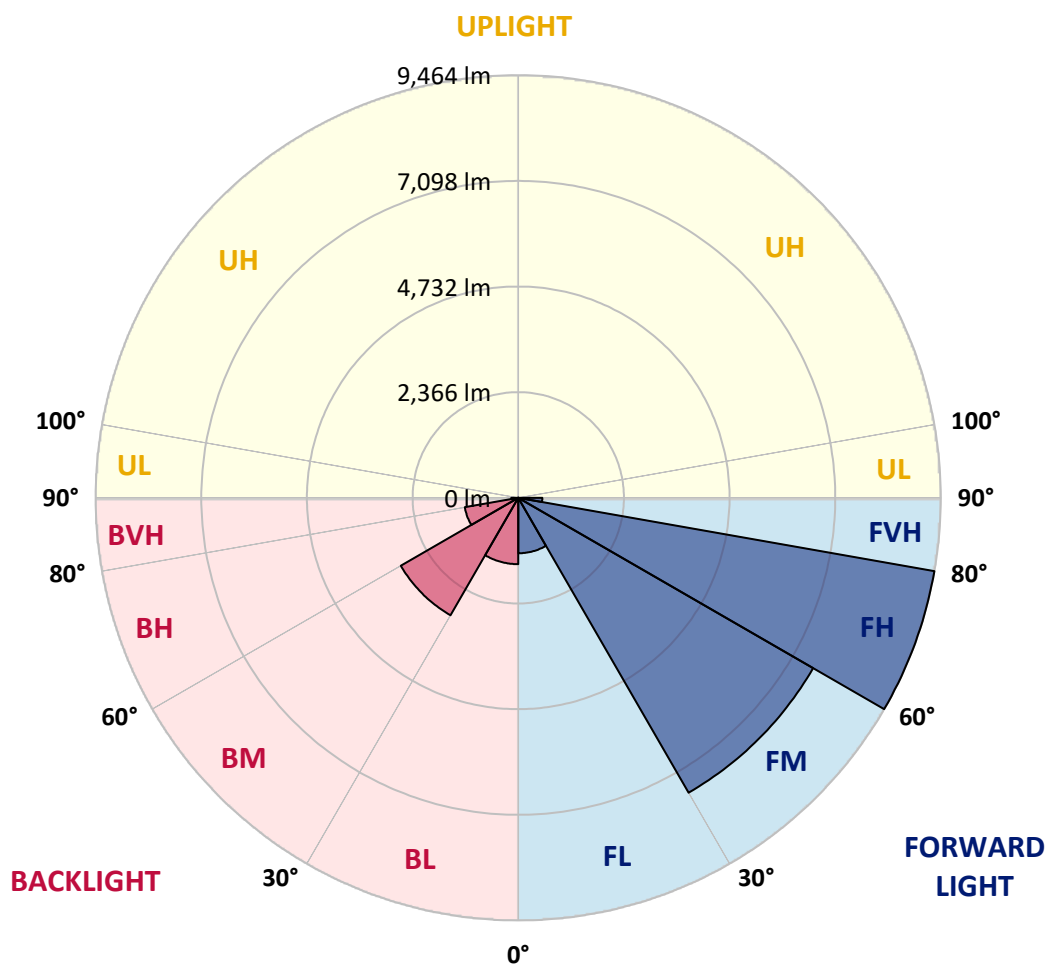
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1241.8	5.0			
FM	(30°-60°)	7625.3	30.8			
FH	(60°-80°)	9463.7	38.2			G4/12000
FVH	(80°-90°)	538.5	2.2			G4/750
BL	(0°-30°)	1485.0	6.0	B3/2500		
BM	(30°-60°)	3036.3	12.3	B3/5000		
BH	(60°-80°)	1214.9	4.9	B3/2500		G3/2500
BVH	(80°-90°)	156.5	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7
2.5°	3042.7	3061.5	3069.5	3065.5	3085.6	3082.8	3111.0	3145.7	3193.9	3240.8	3309.1
5°	2808.4	2828.5	2845.9	2862.0	2900.7	2912.8	2957.0	3024.0	3112.3	3202.0	3314.4
7.5°	2590.3	2607.6	2634.4	2663.9	2729.5	2741.5	2815.2	2919.5	3042.7	3173.9	3329.1
10°	2412.2	2429.6	2457.7	2491.2	2572.9	2587.5	2681.3	2820.5	2981.1	3147.1	3345.2
12.5°	2335.9	2341.2	2357.3	2390.8	2461.7	2471.1	2574.2	2733.5	2920.8	3127.0	3369.3
15°	2331.9	2342.5	2344.0	2361.3	2420.2	2424.2	2519.2	2677.2	2883.4	3123.0	3405.5
17.5°	2372.1	2380.0	2368.1	2378.7	2428.2	2435.0	2509.9	2650.4	2871.3	3140.4	3467.1
20°	2479.2	2485.8	2449.6	2435.0	2471.1	2476.4	2550.1	2667.9	2883.4	3176.6	3551.3
22.5°	2706.7	2710.7	2622.4	2562.1	2564.8	2567.5	2631.7	2738.8	2930.3	3242.2	3658.4
25°	3061.5	3058.7	2918.2	2801.7	2734.8	2720.0	2762.9	2853.9	3009.2	3329.1	3796.3
27.5°	3476.4	3456.3	3315.8	3141.7	2995.9	2974.4	2965.0	3003.9	3121.6	3444.3	3965.0
30°	3944.9	3926.2	3774.9	3547.3	3345.2	3310.4	3222.1	3202.0	3289.0	3600.9	4199.2
32.5°	4459.0	4446.9	4266.2	3990.4	3720.0	3679.9	3531.2	3477.7	3546.0	3837.8	4525.9
35°	4890.0	4879.3	4729.3	4445.5	4115.0	4065.4	3914.2	3853.9	3888.6	4141.7	4952.9
37.5°	5279.5	5274.1	5145.7	4922.2	4580.7	4520.6	4350.5	4330.4	4323.8	4542.0	5470.9
40°	5641.0	5627.6	5493.7	5375.9	5122.8	5068.0	4918.1	4900.7	4849.8	5034.6	6057.2
42.5°	6041.1	6006.4	5812.3	5757.4	5689.2	5643.6	5554.0	5556.6	5444.2	5590.0	6678.4
45°	6367.8	6347.7	6148.3	6116.2	6189.8	6171.0	6248.7	6268.8	6050.6	6172.3	7323.6
47.5°	6718.6	6699.8	6531.1	6508.3	6707.8	6713.1	6987.6	6994.3	6642.2	6777.4	7970.1
50°	7150.9	7124.2	6956.8	6985.0	7208.5	7228.5	7730.6	7685.0	7187.1	7391.9	8611.3
52.5°	7436.1	7452.1	7416.0	7461.5	7766.6	7785.4	8461.4	8344.9	7726.6	7998.3	9240.5
55°	7646.2	7678.3	7790.7	7895.2	8355.7	8374.5	9150.8	8972.7	8173.7	8560.5	9832.2
57.5°	7916.6	7871.1	8081.2	8284.8	8915.2	8964.8	9821.4	9577.8	8569.8	9045.0	10237.8
60°	8304.8	8272.7	8436.0	8737.2	9541.7	9620.6	10531.0	10122.6	8860.3	9429.3	10316.7
62.5°	9092.0	9011.6	9037.0	9303.4	10331.5	10435.8	11331.4	10597.9	9004.9	9579.1	9893.7
65°	10268.6	10130.7	10002.2	10186.9	11443.8	11546.9	12235.0	10971.3	8951.3	9288.7	8770.6
67.5°	11750.4	11613.9	11455.9	11630.0	13082.3	13164.0	13350.0	11181.5	8529.6	8169.6	6785.5
70°	12972.6	12921.7	13110.5	13826.6	15699.3	15702.0	14779.7	11007.5	7374.5	5792.2	3926.2
72.5°	12810.6	12779.8	13774.4	15988.5	18997.7	18926.7	16133.1	9690.2	4967.7	2613.0	1471.2
75°	10509.5	10709.0	12249.7	15949.6	20182.4	20173.0	15304.5	6160.4	2054.8	1082.9	760.3
77.5°	5635.6	5951.5	7952.8	11775.8	15755.6	15992.5	10759.8	2155.2	882.1	693.4	526.0
80°	1837.9	2113.7	3169.8	5995.6	10237.8	10193.6	4611.6	846.0	603.7	491.3	364.1
82.5°	780.4	812.5	1416.2	2831.2	5254.0	5172.5	1468.4	486.0	424.4	336.0	224.9
85°	305.2	341.3	625.1	1309.1	2275.6	2226.1	530.1	241.0	271.7	219.6	133.9
87.5°	100.3	121.8	223.6	448.4	708.2	682.6	129.9	83.0	117.8	100.3	48.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7	3299.7
2.5°	3327.8	3349.2	3374.7	3412.1	3444.3	3471.1	3499.1	3516.6	3523.2	3543.3	3542.0
5°	3351.9	3398.8	3461.6	3523.2	3583.5	3619.6	3651.8	3667.9	3682.5	3693.3	3695.9
7.5°	3392.0	3452.3	3551.3	3631.7	3682.5	3712.0	3733.5	3728.0	3733.5	3736.1	3740.1
10°	3426.9	3511.2	3629.0	3705.3	3744.1	3745.5	3740.1	3721.4	3712.0	3713.4	3716.0
12.5°	3468.4	3562.1	3689.3	3753.4	3764.2	3734.8	3712.0	3679.9	3667.9	3662.4	3659.8
15°	3524.6	3631.7	3754.8	3779.0	3752.1	3714.7	3675.9	3623.7	3596.8	3575.4	3582.2
17.5°	3592.8	3710.6	3805.7	3788.3	3730.7	3669.2	3606.3	3527.2	3472.4	3449.6	3451.0
20°	3687.8	3793.6	3844.5	3768.2	3681.2	3587.5	3480.4	3384.0	3333.2	3310.4	3307.8
22.5°	3803.1	3904.7	3882.0	3733.5	3610.3	3460.3	3326.4	3255.5	3230.1	3214.0	3216.7
25°	3940.9	4027.9	3908.7	3682.5	3493.8	3291.7	3188.6	3165.8	3153.8	3141.7	3141.7
27.5°	4120.3	4167.1	3928.8	3607.6	3311.8	3112.3	3074.8	3078.8	3074.8	3054.7	3058.7
30°	4357.2	4347.8	3947.6	3485.7	3102.9	2950.4	2953.0	2970.3	2973.1	2959.7	2966.4
32.5°	4669.1	4574.1	3956.9	3327.8	2903.4	2808.4	2811.1	2829.8	2843.2	2820.5	2831.2
35°	5046.6	4837.8	3942.3	3129.7	2749.6	2673.2	2653.1	2658.5	2662.5	2641.1	2655.8
37.5°	5487.0	5133.6	3876.7	2910.2	2622.4	2540.7	2497.8	2461.7	2440.3	2420.2	2433.7
40°	5970.2	5456.2	3756.2	2696.0	2480.5	2400.1	2335.9	2267.6	2195.3	2168.6	2180.6
42.5°	6476.3	5788.2	3610.3	2491.2	2317.1	2251.5	2183.2	2084.2	1975.8	1921.0	1927.6
45°	7001.0	6128.2	3467.1	2289.0	2149.8	2121.8	2042.7	1923.6	1805.8	1736.1	1730.8
47.5°	7515.0	6449.5	3256.8	2085.6	1993.2	2024.0	1962.5	1852.7	1721.5	1611.7	1599.6
50°	8006.3	6750.6	2912.8	1879.4	1866.0	1994.5	1935.6	1777.7	1627.8	1487.2	1475.2
52.5°	8493.6	6994.3	2472.4	1692.0	1797.7	1986.6	1900.9	1726.8	1543.4	1396.2	1380.2
55°	8907.1	7120.2	2048.1	1531.4	1698.7	1918.3	1859.4	1666.5	1424.3	1267.7	1254.3
57.5°	9142.8	7018.4	1694.7	1373.4	1562.2	1805.8	1788.4	1538.1	1282.4	1161.9	1145.8
60°	9041.0	6606.1	1405.6	1235.5	1432.3	1684.0	1665.2	1410.9	1173.9	1060.2	1044.2
62.5°	8480.1	5820.4	1176.6	1115.1	1314.6	1559.5	1542.1	1313.2	1091.0	981.2	963.8
65°	7350.4	4734.7	998.7	1014.6	1195.4	1409.6	1435.0	1231.5	1025.4	918.3	900.9
67.5°	5606.1	3429.5	859.4	927.6	1078.9	1262.3	1336.0	1172.6	970.5	868.8	852.7
70°	3195.3	1947.7	741.6	843.4	975.9	1125.8	1259.6	1125.8	911.6	827.3	816.5
72.5°	1211.4	894.2	641.2	759.0	876.8	1010.6	1175.3	1052.2	843.4	780.4	769.7
75°	646.6	544.8	539.5	659.9	763.0	898.2	1069.6	979.9	792.4	824.6	851.4
77.5°	440.4	385.5	451.1	564.9	638.5	773.8	957.1	870.1	686.7	684.1	630.5
80°	305.2	273.1	366.7	455.1	493.9	650.6	835.3	746.9	559.5	522.0	499.3
82.5°	183.4	178.0	274.4	340.0	349.4	501.9	692.1	626.5	457.8	398.9	401.6
85°	100.3	105.8	175.4	199.5	203.5	350.8	542.1	484.6	352.1	295.8	298.5
87.5°	28.1	36.2	64.3	79.0	97.7	182.0	322.6	287.8	176.7	123.1	123.1
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)