

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: P884971

Luminaire Tested: **NAV-SB6A-740-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-740-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29013 lumens
Efficiency: N/A
Efficacy: 169.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

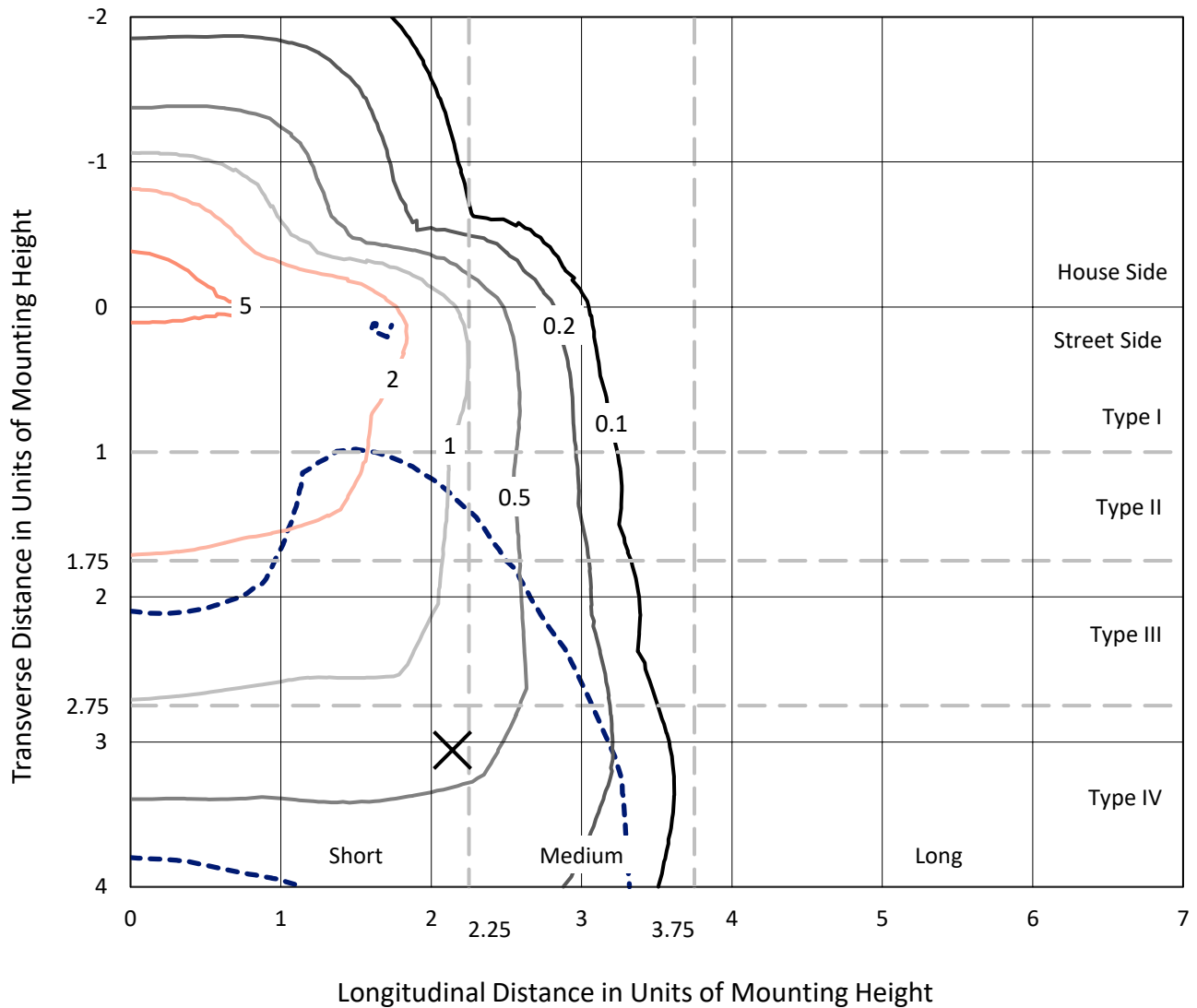
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

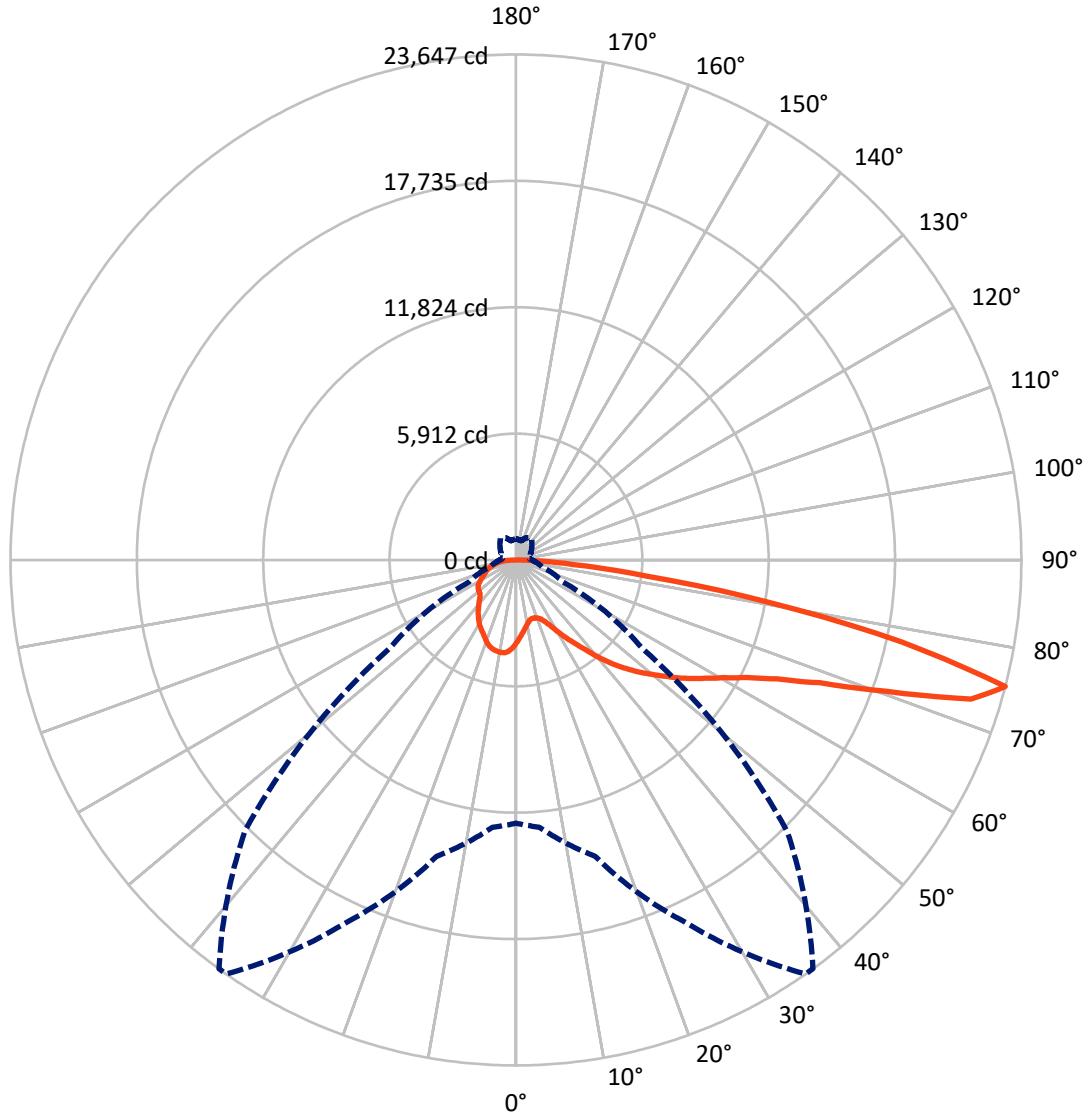
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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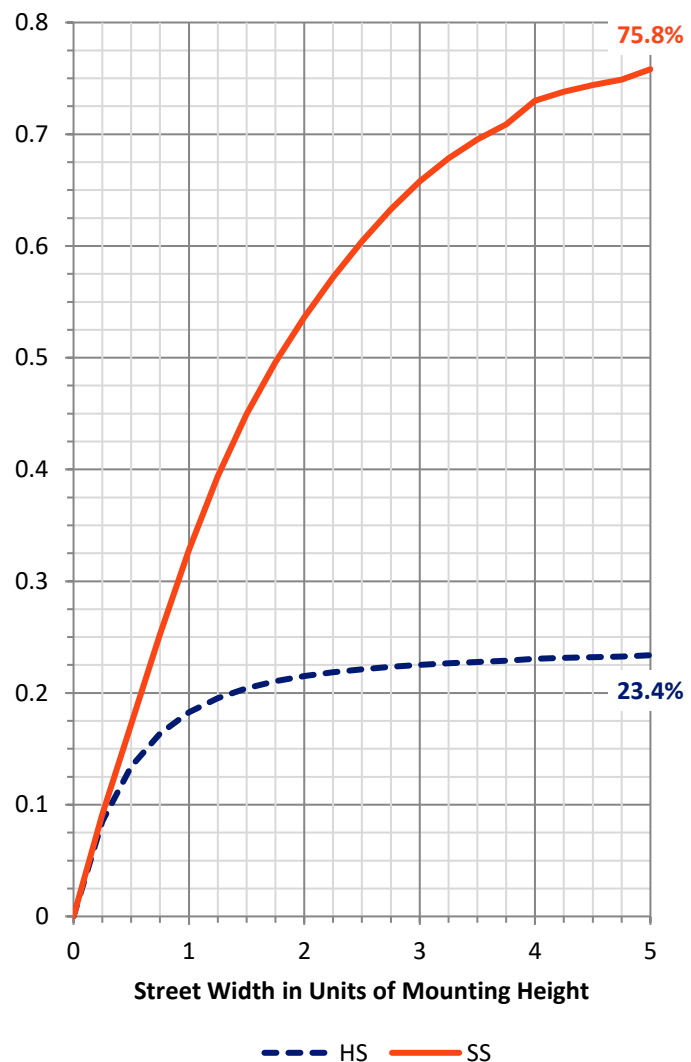
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6904.4	0.0	6904.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	22108.6	0.0	22108.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	29013.0	0.0	29013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.0	1.3
10°-20°	1055.8	3.6
20°-30°	1773.0	6.1
30°-40°	2755.6	9.5
40°-50°	4090.0	14.1
50°-60°	5646.5	19.5
60°-70°	6850.4	23.6
70°-80°	5661.4	19.5
80°-90°	814.3	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°	29013.0	100.0
0°-180°	29013.0	100.0

Coefficient of Utilization



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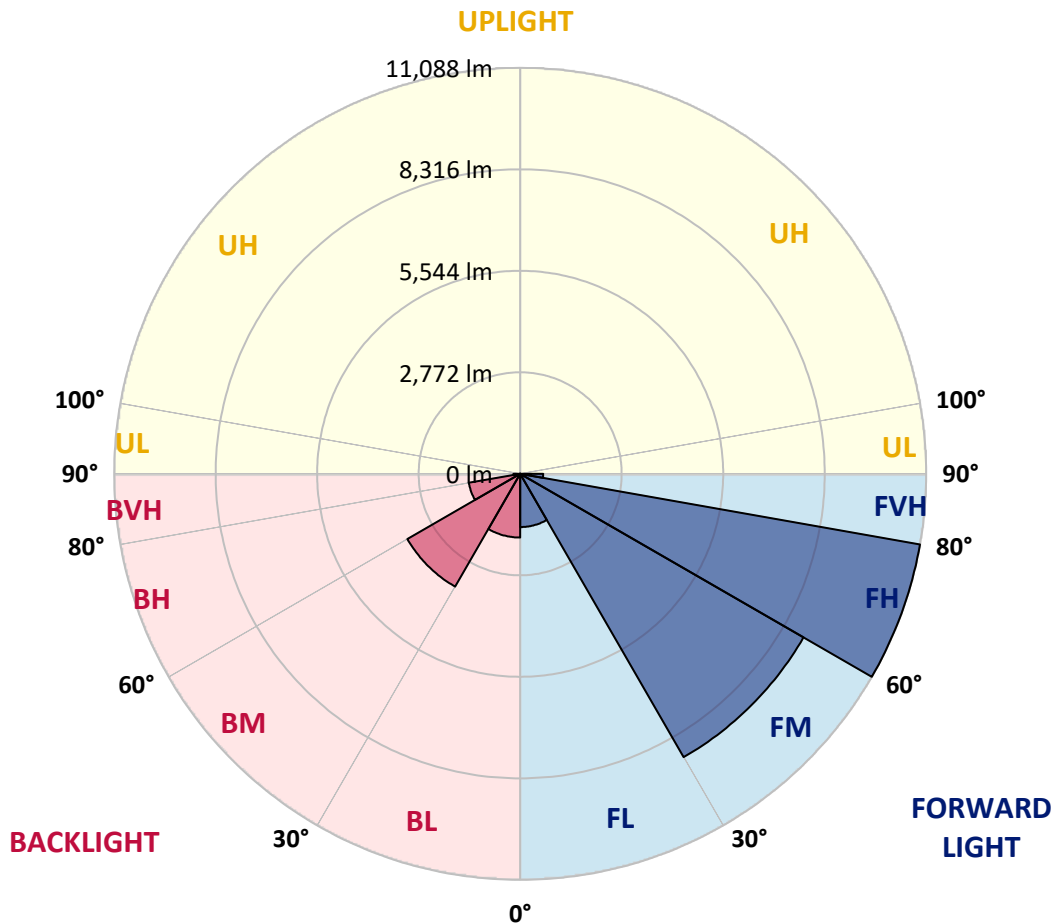
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1454.9	5.0			
FM (30°-60°)	8934.4	30.8			
FH (60°-80°)	11088.3	38.2			G4/12000
FVH (80°-90°)	630.9	2.2			G4/750
BL (0°-30°)	1740.0	6.0	B3/2500		
BM (30°-60°)	3557.6	12.3	B3/5000		
BH (60°-80°)	1423.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	183.4	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°	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2
2.5°	3565.0	3587.0	3596.4	3591.7	3615.2	3612.1	3645.0	3685.8	3742.3	3797.2	3877.2
5°	3290.6	3314.1	3334.5	3353.3	3398.8	3412.9	3464.7	3543.1	3646.6	3751.7	3883.4
7.5°	3034.9	3055.3	3086.7	3121.2	3198.0	3212.1	3298.4	3420.7	3565.0	3718.7	3900.7
10°	2826.3	2846.7	2879.6	2918.8	3014.5	3031.8	3141.6	3304.7	3492.9	3687.4	3919.5
12.5°	2736.9	2743.2	2762.0	2801.2	2884.3	2895.3	3016.1	3202.7	3422.3	3663.9	3947.7
15°	2732.2	2744.8	2746.3	2766.7	2835.7	2840.4	2951.8	3136.9	3378.4	3659.1	3990.1
17.5°	2779.3	2788.7	2774.6	2787.1	2845.1	2853.0	2940.8	3105.5	3364.3	3679.5	4062.2
20°	2904.7	2912.6	2870.2	2853.0	2895.3	2901.6	2987.9	3125.9	3378.4	3721.9	4161.0
22.5°	3171.4	3176.1	3072.6	3002.0	3005.1	3008.2	3083.5	3209.0	3433.3	3798.7	4286.5
25°	3587.0	3583.9	3419.2	3282.7	3204.3	3187.0	3237.2	3343.9	3525.8	3900.7	4448.1
27.5°	4073.2	4049.7	3885.0	3681.1	3510.1	3485.1	3474.1	3519.6	3657.6	4035.6	4645.7
30°	4622.2	4600.2	4423.0	4156.3	3919.5	3878.7	3775.2	3751.7	3853.6	4219.1	4920.2
32.5°	5224.4	5210.3	4998.6	4675.5	4358.7	4311.6	4137.5	4074.8	4154.8	4496.7	5302.9
35°	5729.5	5716.9	5541.3	5208.8	4821.4	4763.3	4586.1	4515.5	4556.3	4852.7	5803.2
37.5°	6185.9	6179.6	6029.0	5767.1	5367.2	5296.6	5097.4	5073.9	5066.0	5321.7	6410.2
40°	6609.4	6593.7	6436.8	6298.8	6002.4	5938.1	5762.4	5742.0	5682.4	5898.9	7097.1
42.5°	7078.3	7037.5	6810.1	6745.8	6665.8	6612.5	6507.4	6510.6	6378.8	6549.8	7824.9
45°	7461.0	7437.5	7203.8	7166.2	7252.4	7230.5	7321.4	7345.0	7089.3	7232.0	8580.9
47.5°	7871.9	7850.0	7652.4	7625.7	7859.4	7865.7	8187.2	8195.0	7782.5	7941.0	9338.4
50°	8378.5	8347.2	8151.1	8184.1	8446.0	8469.5	9057.7	9004.4	8420.9	8660.9	10089.7
52.5°	8712.6	8731.4	8689.1	8742.4	9100.0	9122.0	9914.0	9777.6	9053.0	9371.4	10826.9
55°	8958.9	8996.5	9128.3	9250.6	9790.1	9812.1	10721.8	10513.2	9576.8	10030.1	11520.1
57.5°	9275.7	9222.4	9468.6	9707.0	10445.7	10503.8	11507.6	11222.1	10041.1	10597.9	11995.3
60°	9730.5	9692.9	9884.2	10237.1	11179.8	11272.3	12338.8	11860.5	10381.4	11048.0	12087.9
62.5°	10652.8	10558.7	10588.5	10900.6	12105.1	12227.5	13276.8	12417.3	10550.8	11223.7	11592.3
65°	12031.4	11869.9	11719.3	11935.7	13408.5	13529.3	14335.4	12854.8	10488.1	10883.3	10276.3
67.5°	13767.7	13607.7	13422.6	13626.5	15328.3	15423.9	15641.9	13101.1	9994.0	9572.1	7950.4
70°	15199.6	15140.0	15361.2	16200.3	18394.5	18397.7	17317.0	12897.2	8640.5	6786.6	4600.2
72.5°	15009.9	14973.8	16139.1	18733.3	22259.2	22176.0	18902.7	11353.9	5820.4	3061.6	1723.7
75°	12313.7	12547.4	14352.7	18687.8	23647.2	23636.2	17931.9	7217.9	2407.5	1268.9	890.9
77.5°	6603.1	6973.2	9318.0	13797.5	18460.4	18738.0	12607.0	2525.2	1033.6	812.4	616.4
80°	2153.5	2476.6	3714.0	7025.0	11995.3	11943.6	5403.2	991.2	707.4	575.6	426.6
82.5°	914.4	952.0	1659.4	3317.2	6156.1	6060.4	1720.6	569.3	497.2	393.7	263.5
85°	357.6	399.9	732.5	1533.9	2666.3	2608.3	621.1	282.3	318.4	257.2	156.8
87.5°	117.6	142.7	261.9	525.4	829.7	799.9	152.1	97.2	138.0	117.6	56.5
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°	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2	3866.2
2.5°	3899.1	3924.2	3954.0	3997.9	4035.6	4066.9	4099.9	4120.3	4128.1	4151.6	4150.1
5°	3927.3	3982.2	4056.0	4128.1	4198.7	4241.0	4278.7	4297.5	4314.7	4327.3	4330.4
7.5°	3974.4	4045.0	4161.0	4255.1	4314.7	4349.3	4374.3	4368.1	4374.3	4377.5	4382.2
10°	4015.2	4114.0	4252.0	4341.4	4386.9	4388.5	4382.2	4360.2	4349.3	4350.8	4354.0
12.5°	4063.8	4173.6	4322.6	4397.9	4410.4	4375.9	4349.3	4311.6	4297.5	4291.2	4288.1
15°	4129.7	4255.1	4399.4	4427.7	4396.3	4352.4	4306.9	4245.7	4214.4	4189.3	4197.1
17.5°	4209.7	4347.7	4459.0	4438.7	4371.2	4299.1	4225.3	4132.8	4068.5	4041.8	4043.4
20°	4321.0	4444.9	4504.5	4415.1	4313.2	4203.4	4077.9	3965.0	3905.4	3878.7	3875.6
22.5°	4455.9	4575.1	4548.4	4374.3	4230.1	4054.4	3897.5	3814.4	3784.6	3765.8	3768.9
25°	4617.5	4719.4	4579.8	4314.7	4093.6	3856.8	3736.0	3709.3	3695.2	3681.1	3681.1
27.5°	4827.6	4882.5	4603.3	4226.9	3880.3	3646.6	3602.7	3607.4	3602.7	3579.2	3583.9
30°	5105.2	5094.3	4625.3	4084.2	3635.6	3456.8	3460.0	3480.3	3483.5	3467.8	3475.6
32.5°	5470.7	5359.3	4636.3	3899.1	3401.9	3290.6	3293.7	3315.7	3331.3	3304.7	3317.2
35°	5913.0	5668.3	4619.0	3667.0	3221.6	3132.2	3108.6	3114.9	3119.6	3094.5	3111.8
37.5°	6429.0	6014.9	4542.2	3409.8	3072.6	2976.9	2926.7	2884.3	2859.2	2835.7	2851.4
40°	6995.2	6392.9	4401.0	3158.8	2906.3	2812.2	2736.9	2656.9	2572.2	2540.9	2555.0
42.5°	7588.1	6781.9	4230.1	2918.8	2715.0	2638.1	2558.1	2442.0	2315.0	2250.7	2258.5
45°	8202.9	7180.3	4062.2	2682.0	2518.9	2486.0	2393.4	2253.8	2115.8	2034.3	2028.0
47.5°	8805.2	7556.7	3816.0	2443.6	2335.4	2371.5	2299.3	2170.7	2017.0	1888.4	1874.3
50°	9380.8	7909.6	3412.9	2202.1	2186.4	2337.0	2267.9	2082.9	1907.2	1742.5	1728.4
52.5°	9951.7	8195.0	2896.9	1982.5	2106.4	2327.5	2227.2	2023.3	1808.4	1635.9	1617.1
55°	10436.3	8342.5	2399.7	1794.3	1990.3	2247.6	2178.5	1952.7	1668.8	1485.3	1469.6
57.5°	10712.4	8223.3	1985.6	1609.2	1830.4	2115.8	2095.4	1802.1	1502.6	1361.4	1342.6
60°	10593.2	7740.2	1646.9	1447.7	1678.2	1973.1	1951.1	1653.1	1375.5	1242.2	1223.4
62.5°	9936.0	6819.5	1378.6	1306.5	1540.2	1827.2	1806.8	1538.6	1278.3	1149.7	1129.3
65°	8612.2	5547.5	1170.0	1188.9	1400.6	1651.6	1681.4	1443.0	1201.4	1075.9	1055.6
67.5°	6568.6	4018.3	1006.9	1086.9	1264.2	1479.0	1565.3	1373.9	1137.1	1017.9	999.1
70°	3743.8	2282.1	868.9	988.1	1143.4	1319.0	1475.9	1319.0	1068.1	969.3	956.7
72.5°	1419.4	1047.7	751.3	889.3	1027.3	1184.2	1377.1	1232.8	988.1	914.4	901.8
75°	757.6	638.4	632.1	773.2	894.0	1052.4	1253.2	1148.1	928.5	966.2	997.5
77.5°	516.0	451.7	528.6	661.9	748.1	906.6	1121.4	1019.5	804.6	801.5	738.7
80°	357.6	320.0	429.7	533.3	578.8	762.3	978.7	875.2	655.6	611.7	585.0
82.5°	214.9	208.6	321.5	398.4	409.4	588.2	810.9	734.0	536.4	467.4	470.5
85°	117.6	123.9	205.5	233.7	238.4	410.9	635.2	567.8	412.5	346.6	349.8
87.5°	32.9	42.3	75.3	92.5	114.5	213.3	378.0	337.2	207.0	144.3	144.3
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)