

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: P884937

Luminaire Tested: **NAV-SB6A-727-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24449 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

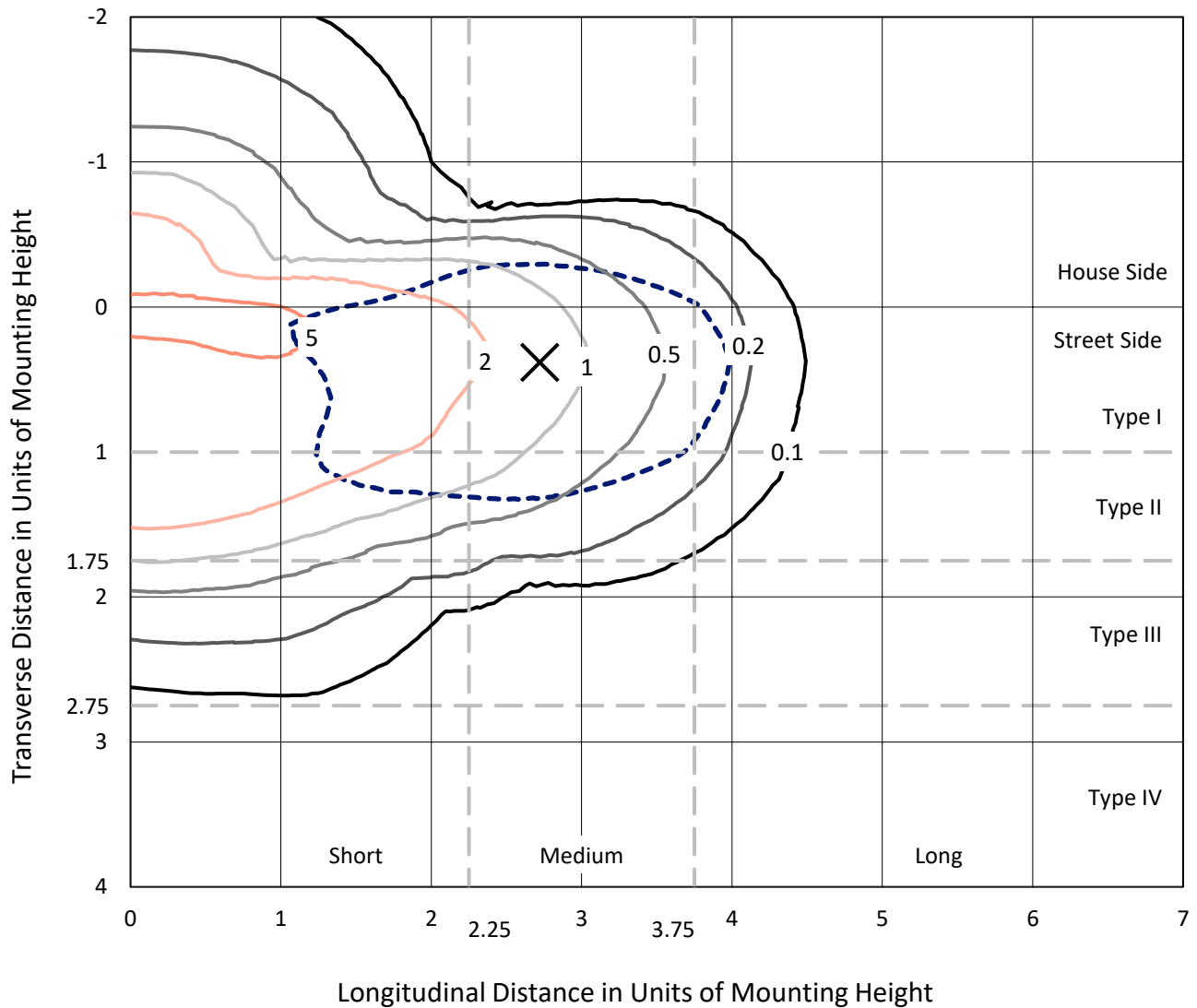
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P884937
 CATALOG NUMBER: NAV-SB6A-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

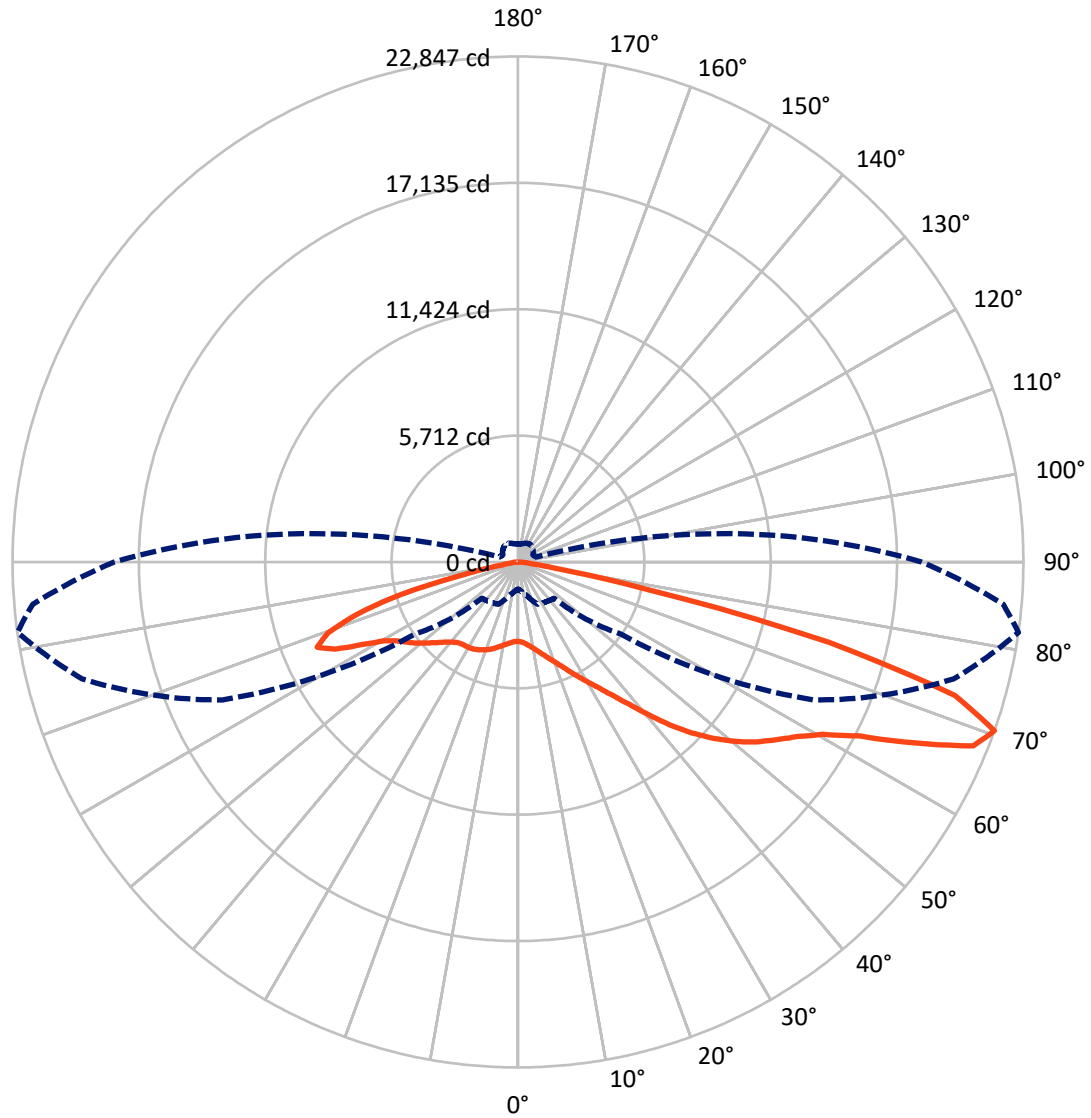
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P884937
CATALOG NUMBER: NAV-SB6A-727-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P884937
 CATALOG NUMBER: NAV-SB6A-727-U-T2

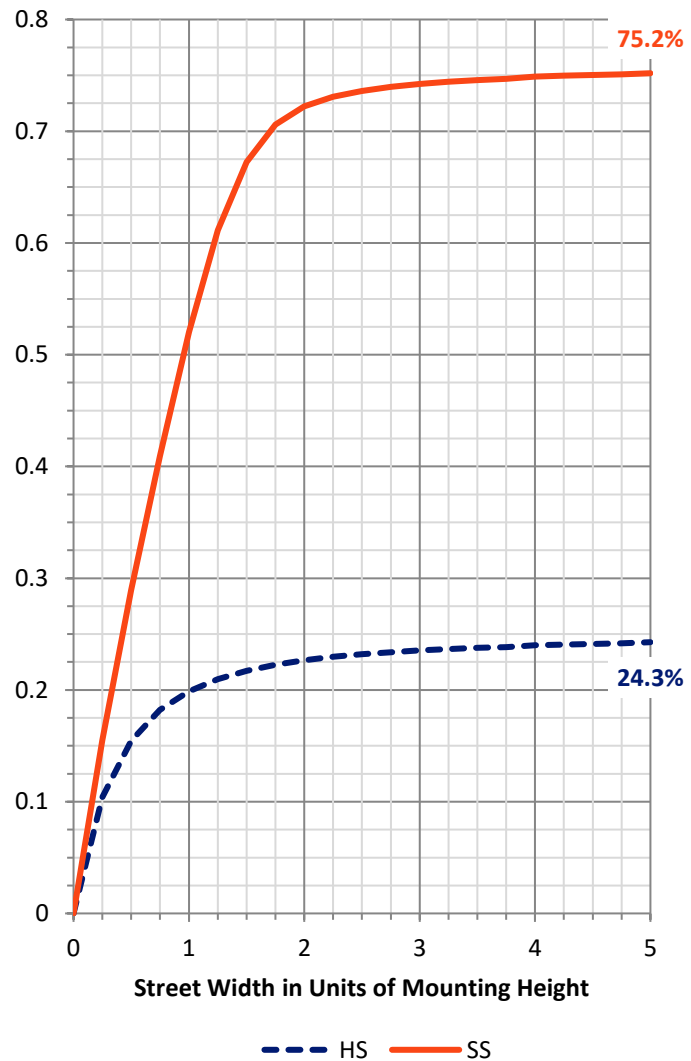
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6027.3	0.0	6027.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	18421.7	0.0	18421.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	24449.0	0.0	24449.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.4	1.4
10°-20°	972.4	4.0
20°-30°	1626.7	6.7
30°-40°	2541.3	10.4
40°-50°	4047.3	16.6
50°-60°	5632.3	23.0
60°-70°	5891.6	24.1
70°-80°	3079.3	12.6
80°-90°	319.8	1.3
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°	24449.0	100.0
0°-180°	24449.0	100.0



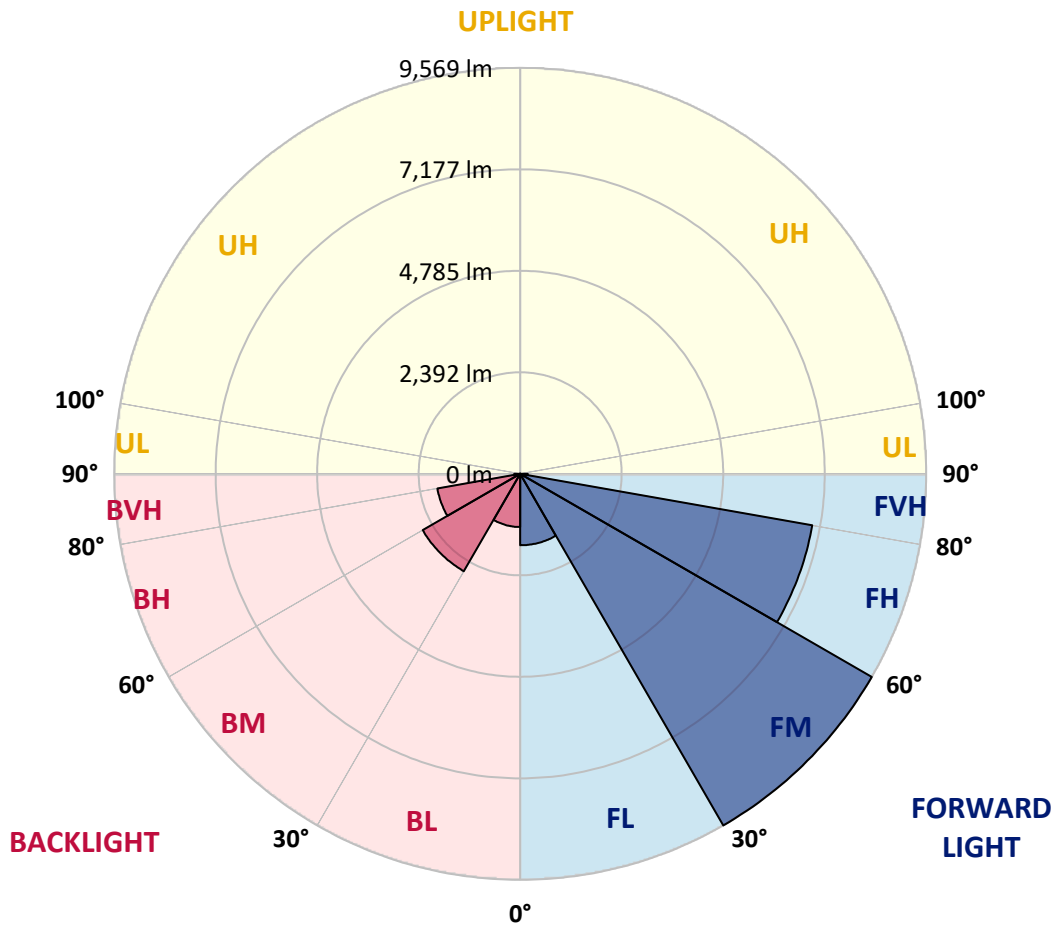
REPORT NUMBER: P884937
 CATALOG NUMBER: NAV-SB6A-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1683.6	6.9			
FM (30°-60°)	9569.1	39.1			
FH (60°-80°)	6990.0	28.6			G3/7500
FVH (80°-90°)	179.0	0.7			G2/225
BL (0°-30°)	1253.9	5.1	B3/2500		
BM (30°-60°)	2651.8	10.8	B3/5000		
BH (60°-80°)	1980.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	140.8	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-G3

Type II Medium



REPORT NUMBER: P884937

CATALOG NUMBER: NAV-SB6A-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5
2.5°	3670.2	3690.9	3684.4	3677.9	3677.9	3668.9	3667.6	3654.6	3644.2	3627.3	3623.4
5°	3716.9	3738.9	3736.3	3741.5	3758.4	3762.3	3766.2	3758.4	3737.6	3716.9	3707.8
7.5°	3675.3	3700.0	3707.8	3738.9	3790.8	3837.5	3872.5	3886.8	3867.3	3837.5	3823.2
10°	3535.2	3562.5	3589.7	3663.7	3755.8	3866.1	3959.5	4015.2	4011.4	3982.8	3958.2
12.5°	3251.1	3279.7	3338.0	3482.0	3650.7	3845.3	4019.1	4135.9	4176.1	4155.4	4112.5
15°	3024.1	3048.7	3092.8	3240.7	3460.0	3755.8	4041.2	4268.2	4370.7	4359.0	4307.1
17.5°	3017.6	3028.0	3055.2	3125.3	3293.9	3615.7	4017.8	4398.0	4593.9	4592.6	4527.7
20°	3131.8	3135.7	3151.2	3165.5	3261.5	3509.3	3958.2	4505.6	4844.2	4844.2	4774.2
22.5°	3290.0	3287.4	3303.0	3290.0	3336.7	3500.2	3920.5	4600.3	5123.2	5143.9	5055.7
25°	3527.4	3514.5	3510.6	3480.7	3489.8	3584.5	3962.1	4708.0	5454.0	5496.8	5386.5
27.5°	3844.0	3823.2	3809.0	3740.2	3716.9	3758.4	4089.2	4837.8	5822.4	5896.4	5756.3
30°	4256.5	4218.9	4198.2	4078.8	3994.5	4001.0	4281.2	5010.3	6207.7	6327.1	6149.4
32.5°	4819.6	4761.2	4705.4	4509.5	4355.1	4304.5	4529.0	5249.0	6625.5	6816.2	6587.9
35°	5450.1	5403.4	5343.7	5041.4	4804.0	4687.3	4863.7	5582.4	7114.6	7416.8	7119.8
37.5°	6057.2	6017.0	6045.6	5638.2	5332.0	5162.1	5302.2	6030.0	7717.8	8164.1	7786.6
40°	6685.2	6654.0	6657.9	6268.7	5911.9	5721.2	5834.1	6591.7	8409.3	9052.8	8588.3
42.5°	7367.6	7344.2	7266.4	6921.3	6520.4	6342.7	6446.4	7240.4	9151.4	10064.7	9467.9
45°	8131.7	8117.4	8044.8	7649.1	7189.8	6990.0	7130.1	7956.5	9897.3	11016.9	10351.4
47.5°	8792.0	8803.7	8794.6	8461.2	7985.1	7691.9	7859.2	8703.8	10591.4	11912.1	11198.6
50°	9109.9	9170.8	9260.4	9156.6	8860.8	8562.4	8594.8	9425.1	11253.1	12751.5	12010.7
52.5°	8943.8	9059.3	9303.2	9469.2	9583.4	9521.1	9434.2	10141.2	11875.8	13509.1	12778.7
55°	8325.0	8487.1	8891.9	9292.8	9875.3	10328.1	10442.2	10935.2	12482.9	14175.9	13505.2
57.5°	7197.6	7461.0	7824.2	8635.0	9615.8	10718.6	11617.6	12036.6	13126.4	14888.2	14265.5
60°	5264.6	5617.4	6068.9	7275.4	8707.7	10509.7	12617.9	13728.4	14041.0	15810.6	15255.3
62.5°	3369.2	3587.1	4002.3	5138.7	6785.0	9439.4	12924.0	15843.0	15591.3	17323.3	16739.5
65°	2306.7	2446.8	2826.9	3465.2	4386.3	7026.4	12104.1	17428.4	18053.7	19720.7	19277.1
67.5°	1676.2	1782.5	2106.9	2666.0	2858.0	4157.9	9392.7	17355.7	20447.3	22190.9	21500.7
70°	1222.1	1297.3	1569.8	2106.9	2199.0	2313.1	5690.1	14753.3	20395.4	22847.3	22020.9
72.5°	905.5	957.4	1140.4	1634.6	1779.9	1562.0	2816.5	10722.5	17525.7	20665.2	20002.3
75°	655.2	694.1	829.0	1250.6	1424.5	1189.7	1405.0	6266.1	12224.8	14536.6	14653.4
77.5°	500.8	530.6	618.8	915.9	1140.4	892.6	871.8	2882.7	5796.5	5825.0	6151.9
80°	402.2	421.6	469.6	644.8	874.4	668.1	568.2	1163.7	1831.8	1550.3	1626.9
82.5°	295.8	328.2	397.0	452.8	625.3	460.6	346.4	587.7	696.7	599.4	604.6
85°	168.7	190.7	240.0	324.3	399.6	281.5	198.5	260.8	324.3	266.0	237.4
87.5°	59.7	77.8	84.3	127.1	173.8	116.8	76.5	75.2	106.4	79.1	66.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P884937
 CATALOG NUMBER: NAV-SB6A-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5	3584.5
2.5°	3610.5	3604.0	3578.0	3543.0	3506.7	3471.7	3460.0	3435.3	3418.5	3409.4	3419.8
5°	3683.1	3662.4	3601.4	3523.6	3441.8	3353.6	3291.3	3234.2	3192.7	3153.8	3169.4
7.5°	3786.9	3750.6	3645.5	3509.3	3364.0	3217.4	3108.4	3025.4	2969.6	2933.3	2941.1
10°	3907.6	3851.8	3690.9	3487.2	3262.8	3052.6	2924.2	2852.8	2817.8	2798.3	2803.5
12.5°	4046.4	3967.2	3737.6	3436.6	3108.4	2868.4	2780.2	2759.4	2760.7	2762.0	2764.6
15°	4217.6	4107.4	3775.2	3326.4	2907.3	2727.0	2711.4	2745.2	2780.2	2797.0	2795.8
17.5°	4410.9	4255.2	3781.7	3144.7	2710.1	2636.2	2685.5	2758.1	2811.3	2834.7	2839.9
20°	4618.5	4405.7	3735.0	2887.9	2548.0	2562.2	2650.4	2743.9	2802.2	2832.1	2839.9
22.5°	4855.9	4566.6	3623.4	2618.0	2415.6	2481.8	2585.6	2676.4	2737.4	2767.2	2775.0
25°	5127.1	4746.9	3448.3	2391.0	2301.5	2391.0	2494.8	2570.0	2619.3	2646.6	2654.3
27.5°	5428.0	4935.1	3214.8	2210.7	2201.6	2297.6	2383.2	2441.6	2467.5	2488.3	2496.1
30°	5730.3	5106.3	2932.0	2074.4	2114.7	2205.5	2266.4	2292.4	2300.2	2304.1	2313.1
32.5°	6057.2	5254.2	2634.9	1961.6	2031.6	2115.9	2152.3	2164.0	2127.6	2103.0	2110.8
35°	6452.9	5412.5	2344.3	1872.1	1949.9	2022.5	2034.2	2023.8	1981.0	1930.4	1933.0
37.5°	6942.0	5609.7	2112.1	1808.5	1873.3	1921.3	1907.1	1904.5	1908.4	1848.7	1852.6
40°	7541.4	5866.5	1942.1	1759.2	1811.1	1821.5	1781.2	1803.3	1822.8	1731.9	1734.5
42.5°	8206.9	6176.6	1834.4	1725.5	1759.2	1734.5	1672.3	1696.9	1694.3	1575.0	1573.7
45°	8885.4	6513.9	1796.8	1700.8	1711.2	1661.9	1593.1	1599.6	1545.1	1437.4	1441.3
47.5°	9560.0	6875.9	1820.2	1680.0	1651.5	1595.7	1542.5	1514.0	1433.6	1353.1	1353.1
50°	10221.7	7256.0	1905.8	1638.5	1569.8	1537.3	1498.4	1447.8	1362.2	1293.4	1288.3
52.5°	10835.3	7638.7	2001.8	1569.8	1467.3	1486.7	1462.1	1403.7	1319.4	1249.3	1250.6
55°	11416.5	8021.4	2039.4	1475.1	1371.3	1442.6	1428.4	1320.7	1219.5	1162.4	1157.2
57.5°	12049.6	8482.0	1997.9	1354.4	1293.4	1392.0	1337.5	1218.2	1159.8	1117.0	1113.1
60°	12926.6	9204.6	1908.4	1205.2	1219.5	1316.8	1223.4	1174.1	1110.5	1062.5	1059.9
62.5°	14383.5	10552.5	1764.4	1057.3	1132.6	1205.2	1168.9	1119.6	1054.7	1008.0	1008.0
65°	16537.1	12425.8	1493.2	941.9	1035.3	1096.2	1110.5	1061.2	993.8	944.5	947.1
67.5°	18353.4	13601.2	1130.0	845.9	935.4	1008.0	1048.2	1000.2	928.9	880.9	882.2
70°	18253.5	12747.6	862.7	751.2	847.2	921.1	973.0	935.4	858.8	813.4	817.3
72.5°	16212.8	10664.1	698.0	655.2	757.6	830.3	892.6	864.0	786.2	742.1	742.1
75°	11910.8	7569.9	557.9	557.9	646.1	735.6	804.3	786.2	714.8	683.7	674.6
77.5°	5020.7	3175.9	437.2	463.1	537.1	631.8	717.4	723.9	661.6	700.6	635.7
80°	1335.0	875.7	333.4	364.6	421.6	521.5	624.0	621.4	554.0	517.6	481.3
82.5°	508.6	345.1	237.4	256.9	304.9	399.6	494.3	509.9	442.4	382.7	382.7
85°	195.9	147.9	146.6	154.4	177.7	264.7	373.6	386.6	333.4	282.8	291.9
87.5°	50.6	44.1	54.5	51.9	81.7	141.4	214.1	221.8	203.7	118.1	168.7
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)