

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: P885137

Luminaire Tested: **NAV-SB6B-740-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885137
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-SB6B-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36511 lumens
Efficiency: N/A
Efficacy: 165.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

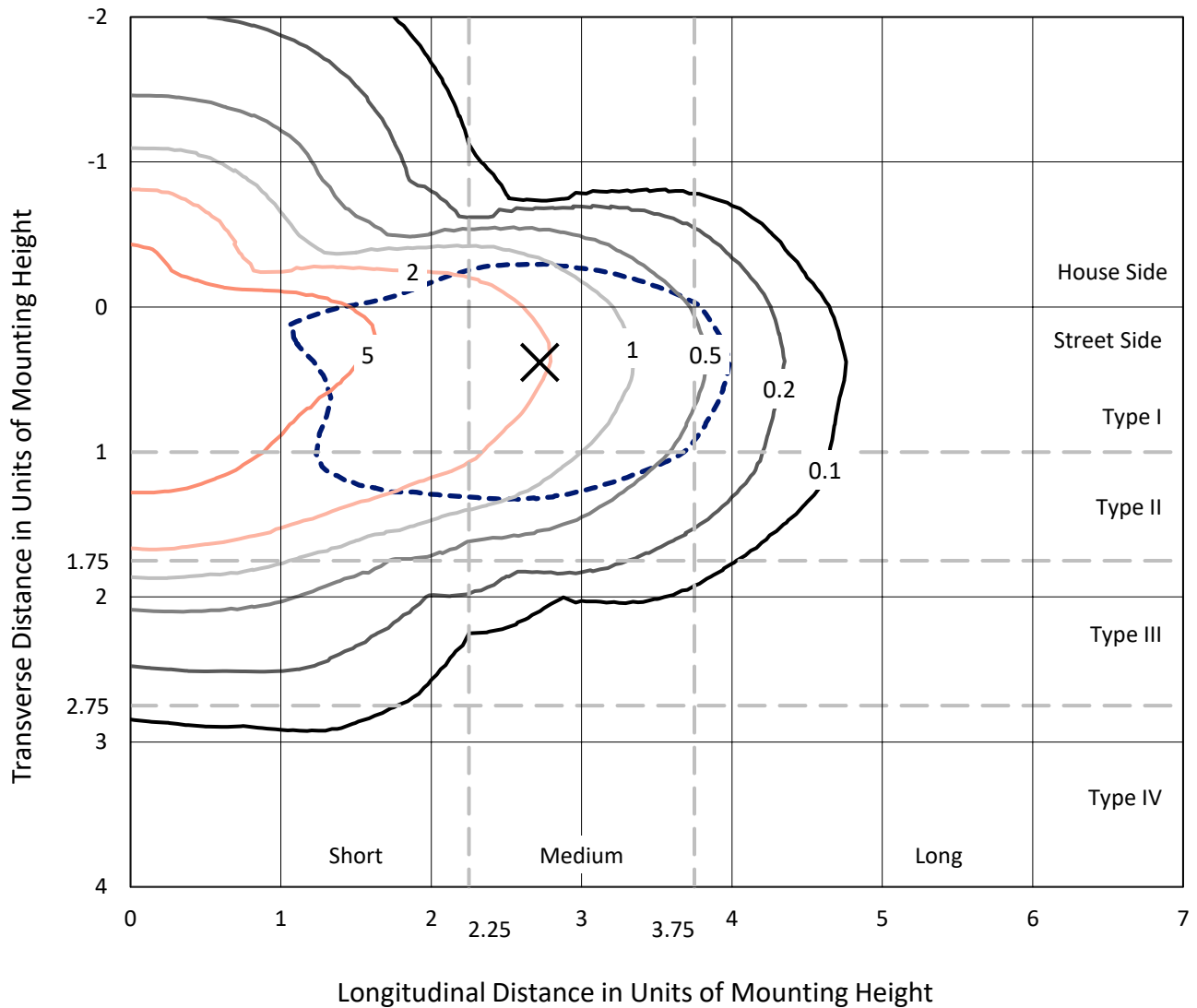
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

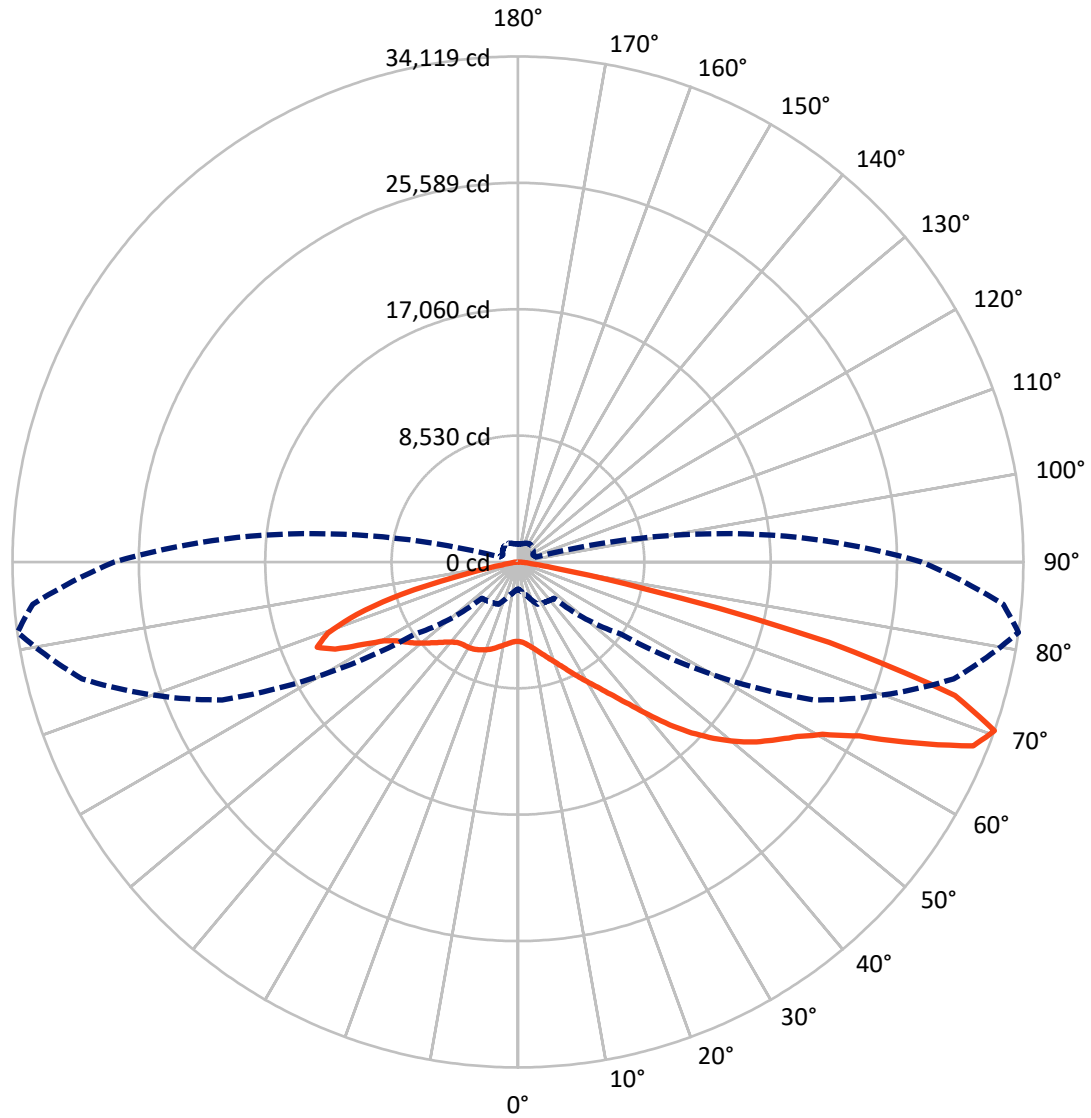
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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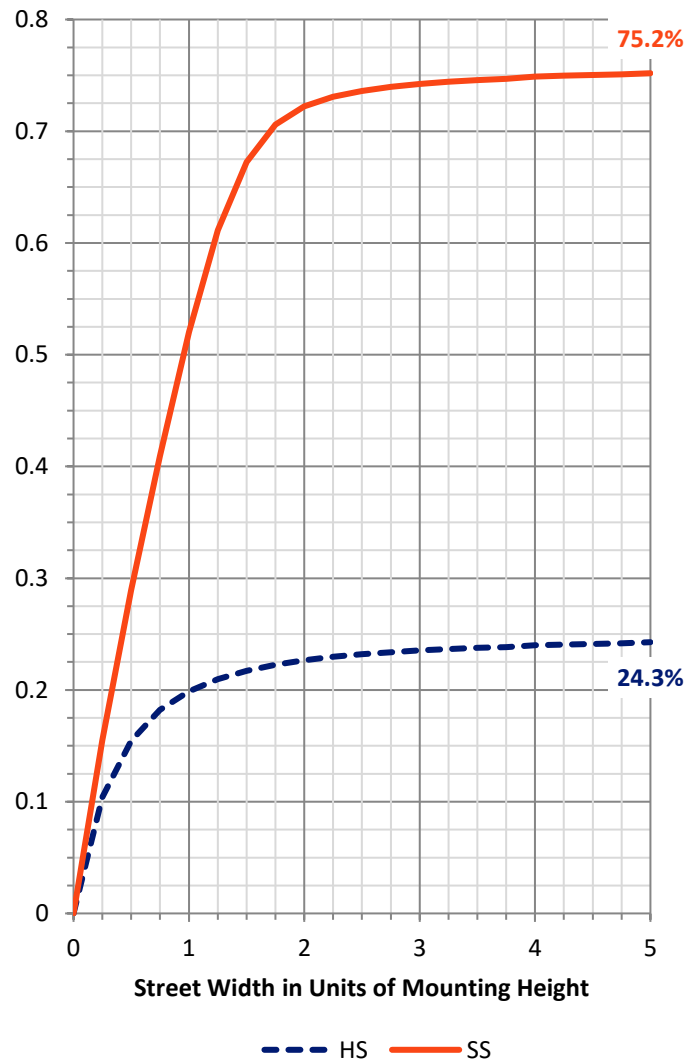
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9000.9	0.0	9000.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	27510.1	0.0	27510.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	36511.0	0.0	36511.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.4	1.4
10°-20°	1452.1	4.0
20°-30°	2429.2	6.7
30°-40°	3795.0	10.4
40°-50°	6044.0	16.6
50°-60°	8411.0	23.0
60°-70°	8798.3	24.1
70°-80°	4598.5	12.6
80°-90°	477.5	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°	36511.0	100.0
0°-180°	36511.0	100.0



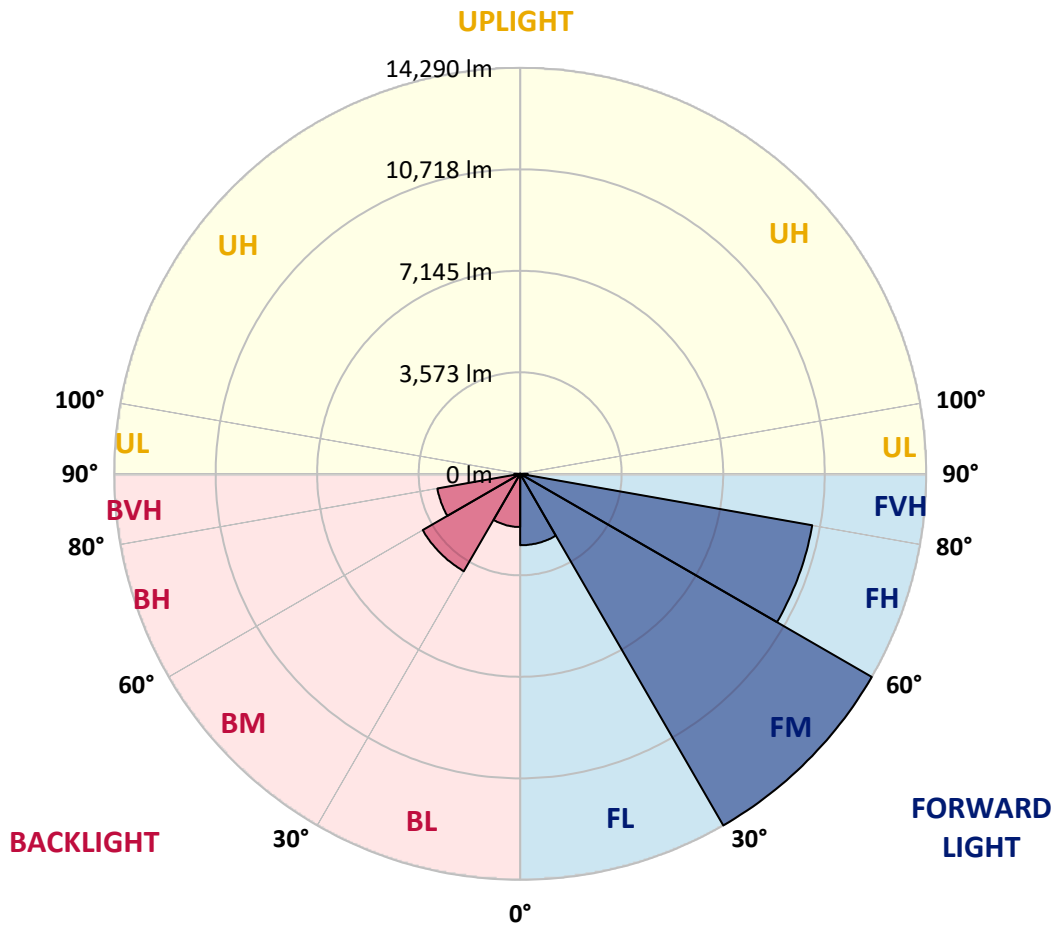
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2514.2	6.9			
FM (30°-60°)	14290.0	39.1			
FH (60°-80°)	10438.6	28.6			G4/12000
FVH (80°-90°)	267.3	0.7			G3/500
BL (0°-30°)	1872.5	5.1	B3/2500		
BM (30°-60°)	3960.0	10.8	B3/5000		
BH (60°-80°)	2958.1	8.1	B4/5000		G4/5000
BVH (80°-90°)	210.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5353.0	5353.0	5353.0	5353.0	5353.0	5353.0	5353.0	5353.0	5353.0	5353.0	5353.0
2.5°	5480.8	5511.8	5502.1	5492.5	5492.5	5478.9	5477.0	5457.6	5442.1	5416.9	5411.1
5°	5550.6	5583.5	5579.6	5587.4	5612.6	5618.4	5624.2	5612.6	5581.6	5550.6	5537.0
7.5°	5488.6	5525.4	5537.0	5583.5	5661.0	5730.8	5783.1	5804.4	5775.3	5730.8	5709.4
10°	5279.3	5320.0	5360.7	5471.1	5608.7	5773.4	5912.9	5996.2	5990.4	5947.7	5910.9
12.5°	4855.1	4897.7	4984.9	5199.9	5451.8	5742.4	6002.0	6176.4	6236.4	6205.4	6141.5
15°	4516.0	4552.8	4618.7	4839.6	5167.0	5608.7	6034.9	6374.0	6527.0	6509.6	6432.1
17.5°	4506.3	4521.8	4562.5	4667.1	4919.0	5399.5	6000.1	6567.7	6860.2	6858.3	6761.4
20°	4676.8	4682.6	4705.9	4727.2	4870.6	5240.6	5910.9	6728.5	7234.2	7234.2	7129.5
22.5°	4913.2	4909.3	4932.6	4913.2	4982.9	5227.0	5854.7	6869.9	7650.7	7681.7	7550.0
25°	5267.7	5248.4	5242.5	5198.0	5211.5	5353.0	5916.7	7030.7	8144.7	8208.7	8044.0
27.5°	5740.4	5709.4	5688.1	5585.5	5550.6	5612.6	6106.6	7224.5	8694.9	8805.4	8596.1
30°	6356.5	6300.3	6269.3	6091.1	5965.2	5974.9	6393.3	7482.1	9270.3	9448.6	9183.2
32.5°	7197.4	7110.2	7026.9	6734.3	6503.8	6428.2	6763.4	7838.6	9894.2	10179.0	9838.0
35°	8138.9	8069.2	7980.1	7528.6	7174.1	6999.7	7263.2	8336.5	10624.6	11076.0	10632.3
37.5°	9045.6	8985.5	9028.2	8419.8	7962.6	7708.8	7918.1	9004.9	11525.4	12191.9	11628.1
40°	9983.3	9936.8	9942.6	9361.4	8828.6	8543.8	8712.4	9843.8	12558.1	13519.0	12825.4
42.5°	11002.4	10967.5	10851.2	10335.9	9737.3	9471.8	9626.8	10812.5	13666.2	15030.2	14139.0
45°	12143.5	12122.2	12013.7	11422.8	10736.9	10438.6	10647.8	11881.9	14780.2	16452.2	15458.3
47.5°	13129.6	13147.0	13133.5	12635.6	11924.5	11486.7	11736.6	12997.9	15816.7	17789.0	16723.4
50°	13604.3	13695.3	13829.0	13674.0	13232.3	12786.7	12835.1	14075.0	16804.8	19042.5	17936.2
52.5°	13356.3	13528.7	13892.9	14140.9	14311.4	14218.4	14088.6	15144.5	17734.7	20173.9	19083.2
55°	12432.1	12674.3	13278.8	13877.4	14747.3	15423.4	15593.9	16330.1	18641.4	21169.7	20168.1
57.5°	10748.6	11141.8	11684.3	12895.2	14359.8	16006.6	17349.2	17975.0	19602.4	22233.3	21303.4
60°	7861.9	8388.8	9063.0	10864.8	13003.7	15694.7	18842.9	20501.3	20968.2	23610.8	22781.6
62.5°	5031.4	5356.8	5976.8	7673.9	10132.5	14096.3	19300.1	23659.2	23283.4	25869.8	24998.0
65°	3444.7	3653.9	4221.5	5174.7	6550.3	10492.8	18075.7	26026.7	26960.5	29450.0	28787.5
67.5°	2503.1	2662.0	3146.3	3981.3	4268.0	6209.3	14026.6	25918.2	30535.0	33138.8	32108.1
70°	1825.0	1937.4	2344.2	3146.3	3283.9	3454.3	8497.3	22031.8	30457.5	34119.1	32885.0
72.5°	1352.3	1429.8	1703.0	2441.1	2658.1	2332.6	4206.0	16012.4	26172.0	30860.5	29870.5
75°	978.4	1036.5	1238.0	1867.6	2127.2	1776.6	2098.2	9357.5	18255.9	21708.3	21882.7
77.5°	747.8	792.4	924.1	1367.8	1703.0	1332.9	1301.9	4304.8	8656.2	8698.8	9187.0
80°	600.6	629.6	701.3	962.9	1305.8	997.7	848.6	1737.8	2735.6	2315.2	2429.5
82.5°	441.7	490.2	592.8	676.1	933.8	687.8	517.3	877.6	1040.4	895.1	902.8
85°	251.9	284.8	358.4	484.3	596.7	420.4	296.4	389.4	484.3	397.2	354.5
87.5°	89.1	116.2	125.9	189.9	259.6	174.4	114.3	112.4	158.9	118.2	98.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5353.0	5353.0	5353.0	5353.0	5353.0	5353.0	5353.0	5353.0	5353.0	5353.0	5353.0
2.5°	5391.7	5382.0	5343.3	5291.0	5236.7	5184.4	5167.0	5130.2	5105.0	5091.4	5106.9
5°	5500.2	5469.2	5378.2	5261.9	5139.9	5008.1	4915.1	4829.9	4767.9	4709.8	4733.0
7.5°	5655.2	5601.0	5444.0	5240.6	5023.6	4804.7	4642.0	4518.0	4434.7	4380.4	4392.0
10°	5835.4	5752.1	5511.8	5207.7	4872.5	4558.6	4366.8	4260.3	4208.0	4178.9	4186.7
12.5°	6042.7	5924.5	5581.6	5132.1	4642.0	4283.5	4151.8	4120.8	4122.7	4124.7	4128.5
15°	6298.4	6133.7	5637.8	4967.4	4341.7	4072.4	4049.1	4099.5	4151.8	4177.0	4175.0
17.5°	6587.1	6354.6	5647.5	4696.2	4047.2	3936.7	4010.4	4118.9	4198.3	4233.2	4240.9
20°	6897.1	6579.3	5577.7	4312.6	3805.0	3826.3	3958.1	4097.5	4184.7	4229.3	4240.9
22.5°	7251.6	6819.6	5411.1	3909.6	3607.4	3706.2	3861.2	3996.8	4087.9	4132.4	4144.0
25°	7656.5	7088.9	5149.5	3570.6	3436.9	3570.6	3725.6	3837.9	3911.6	3952.2	3963.9
27.5°	8106.0	7369.8	4800.8	3301.3	3287.7	3431.1	3559.0	3646.1	3684.9	3715.9	3727.5
30°	8557.4	7625.5	4378.5	3097.9	3157.9	3293.5	3384.6	3423.3	3435.0	3440.8	3454.3
32.5°	9045.6	7846.4	3934.8	2929.3	3033.9	3159.9	3214.1	3231.5	3177.3	3140.5	3152.1
35°	9636.5	8082.7	3500.8	2795.6	2911.9	3020.4	3037.8	3022.3	2958.4	2882.8	2886.7
37.5°	10366.9	8377.2	3154.0	2700.7	2797.6	2869.3	2847.9	2844.1	2849.9	2760.8	2766.6
40°	11262.0	8760.8	2900.3	2627.1	2704.6	2720.1	2660.0	2693.0	2722.0	2586.4	2590.3
42.5°	12255.8	9223.8	2739.4	2576.7	2627.1	2590.3	2497.3	2534.1	2530.2	2352.0	2350.0
45°	13269.1	9727.6	2683.3	2539.9	2555.4	2481.8	2379.1	2388.8	2307.4	2146.6	2152.4
47.5°	14276.5	10268.1	2718.1	2508.9	2466.3	2383.0	2303.5	2260.9	2140.8	2020.7	2020.7
50°	15264.6	10835.7	2846.0	2446.9	2344.2	2295.8	2237.7	2162.1	2034.2	1931.6	1923.8
52.5°	16181.0	11407.3	2989.4	2344.2	2191.2	2220.2	2183.4	2096.2	1970.3	1865.7	1867.6
55°	17048.9	11978.8	3045.6	2202.8	2047.8	2154.4	2133.1	1972.2	1821.1	1735.9	1728.1
57.5°	17994.3	12666.6	2983.6	2022.6	1931.6	2078.8	1997.4	1819.2	1732.0	1668.1	1662.3
60°	19304.0	13745.7	2849.9	1799.8	1821.1	1966.4	1826.9	1753.3	1658.4	1586.7	1582.8
62.5°	21479.7	15758.6	2634.8	1579.0	1691.3	1799.8	1745.6	1672.0	1575.1	1505.3	1505.3
65°	24695.7	18556.2	2229.9	1406.5	1546.0	1637.1	1658.4	1584.8	1484.0	1410.4	1414.3
67.5°	27408.1	20311.4	1687.5	1263.2	1396.8	1505.3	1565.4	1493.7	1387.2	1315.5	1317.4
70°	27258.9	19036.7	1288.4	1121.7	1265.1	1375.5	1453.0	1396.8	1282.5	1214.7	1220.5
72.5°	24211.4	15925.2	1042.3	978.4	1131.4	1239.9	1332.9	1290.3	1174.0	1108.2	1108.2
75°	17787.0	11304.6	833.1	833.1	964.8	1098.5	1201.2	1174.0	1067.5	1021.0	1007.4
77.5°	7497.6	4742.7	652.9	691.6	802.1	943.5	1071.4	1081.1	988.1	1046.2	949.3
80°	1993.6	1307.7	497.9	544.4	629.6	778.8	931.9	928.0	827.3	773.0	718.8
82.5°	759.5	515.3	354.5	383.6	455.3	596.7	738.1	761.4	660.6	571.5	571.5
85°	292.5	220.9	218.9	230.5	265.4	395.2	558.0	577.3	497.9	422.3	435.9
87.5°	75.6	65.9	81.4	77.5	122.1	211.2	319.7	331.3	304.2	176.3	251.9
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)