

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: P970800

Luminaire Tested: **NAV-SB6C-722-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970800  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-722-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39167.3 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

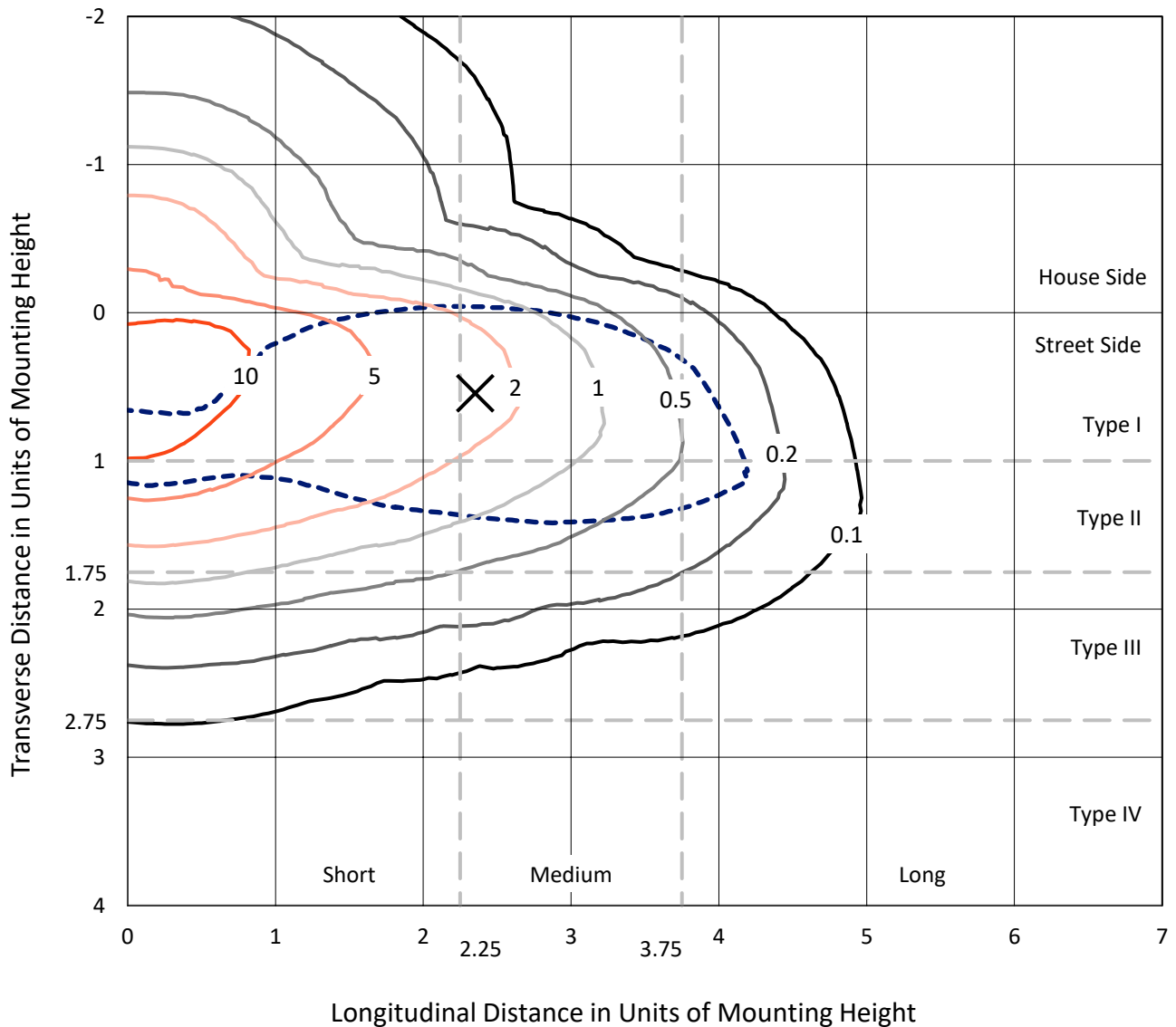
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

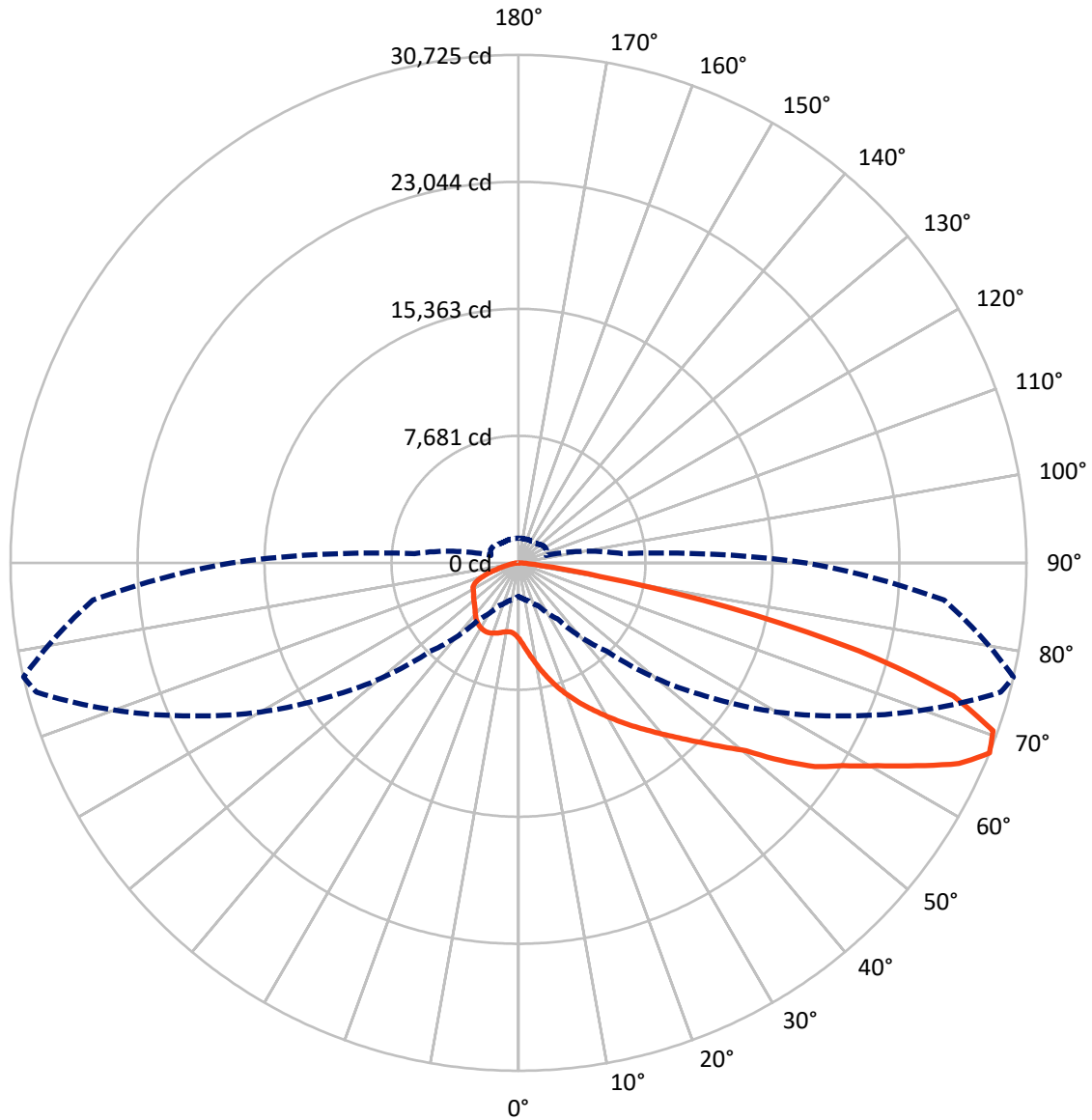
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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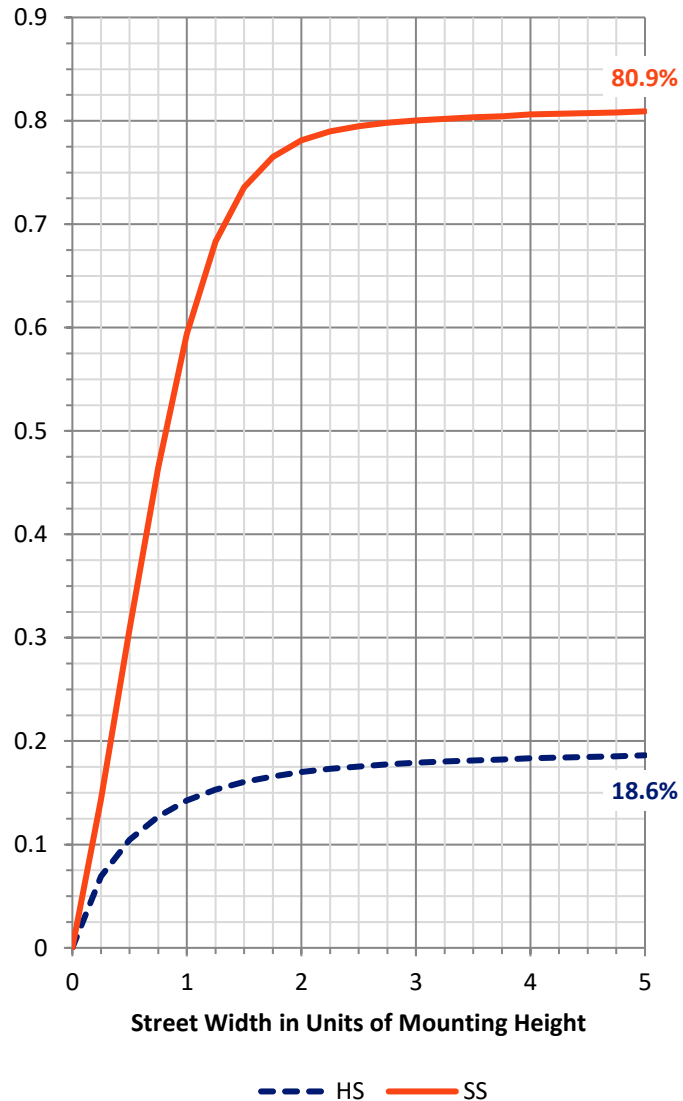
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7408.9	0.0	7408.9
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	31758.4	0.0	31758.4
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	39167.3	0.0	39167.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.6	1.3
10°-20°	1769.6	4.5
20°-30°	3341.2	8.5
30°-40°	5382.7	13.7
40°-50°	7362.6	18.8
50°-60°	8305.0	21.2
60°-70°	7751.7	19.8
70°-80°	4249.2	10.8
80°-90°	512.6	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°	39167.3	100.0
0°-180°	39167.3	100.0

**Coefficient of Utilization**

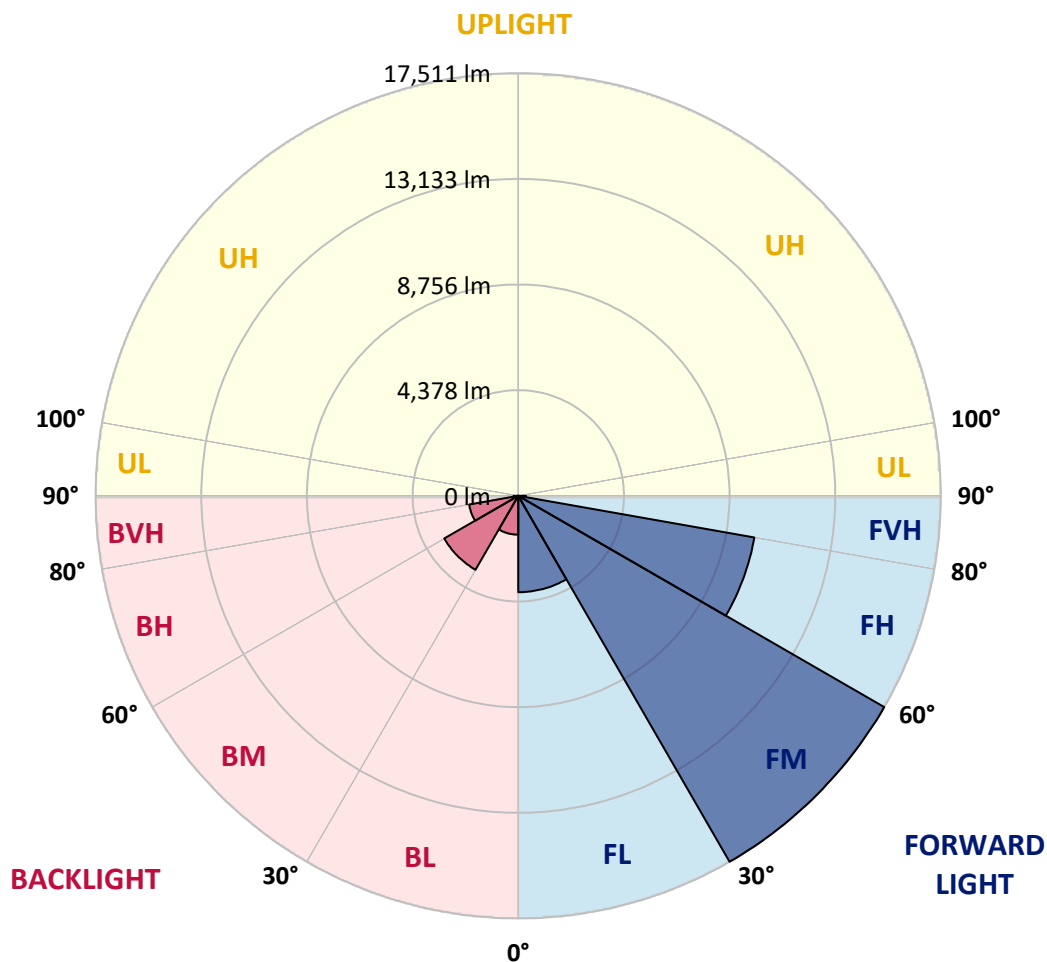


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3992.6	10.2			
FM (30°-60°)	17511.3	44.7			
FH (60°-80°)	9934.0	25.4			G4/12000
FVH (80°-90°)	320.5	0.8			G3/500
BL (0°-30°)	1610.9	4.1	B3/2500		
BM (30°-60°)	3539.0	9.0	B3/5000		
BH (60°-80°)	2067.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	192.0	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-G4**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6
2.5°	5754.0	5794.4	5743.9	5743.9	5574.1	5485.1	5315.3	5185.9	4953.4	4912.9	4759.3
5°	6801.3	6851.8	6781.1	6750.8	6550.6	6366.7	6081.5	5800.6	5386.1	5343.6	4981.7
7.5°	7612.1	7676.7	7614.1	7581.7	7403.8	7197.6	6864.0	6471.7	5887.5	5804.6	5280.9
10°	8273.2	8283.3	8263.0	8275.2	8135.7	7965.9	7624.2	7167.3	6437.4	6324.1	5642.8
12.5°	8647.2	8693.7	8734.1	8806.9	8782.7	8677.5	8370.3	7824.3	7019.7	6874.1	6037.0
15°	8823.1	8904.0	8995.0	9162.8	9298.3	9324.5	9090.0	8529.9	7612.1	7436.2	6435.4
17.5°	8885.8	8962.6	9106.2	9348.8	9639.9	9836.0	9730.9	9215.4	8198.4	7996.2	6853.9
20°	9203.2	9225.4	9312.4	9542.9	9858.2	10183.8	10262.6	9874.4	8778.6	8550.1	7286.5
22.5°	9882.5	9838.1	9862.3	9967.4	10193.9	10509.3	10689.2	10456.7	9375.1	9112.2	7723.3
25°	11004.6	10875.2	10745.8	10624.5	10739.7	10917.7	11121.9	11039.0	9999.8	9666.2	8164.0
27.5°	12421.9	12264.2	11979.2	11580.9	11441.4	11504.0	11595.0	11578.8	10578.0	10240.4	8618.9
30°	13817.0	13633.0	13293.3	12717.1	12349.1	12183.4	12114.6	12068.1	11206.8	10847.0	9077.9
32.5°	14931.0	14785.4	14451.8	13806.9	13273.1	12990.0	12761.6	12595.8	11863.9	11504.0	9563.0
35°	15905.4	15770.0	15387.9	14684.3	14104.0	13802.8	13503.6	13149.7	12547.2	12183.4	10084.7
37.5°	16795.0	16659.6	16136.0	15404.1	14819.8	14611.5	14344.7	13744.1	13232.6	12889.0	10636.6
40°	17357.1	17326.8	16837.5	16008.6	15402.1	15298.9	15210.0	14433.6	13992.9	13673.4	11243.2
42.5°	17500.6	17567.4	17179.2	16497.9	15919.6	15836.8	16044.9	15214.0	14846.0	14540.8	11930.6
45°	17154.9	17347.0	17092.3	16629.3	16287.6	16243.1	16785.0	16067.2	15790.2	15511.2	12759.5
47.5°	16279.5	16605.0	16499.8	16435.2	16386.7	16578.8	17436.0	16973.0	16859.7	16617.1	13705.8
50°	14512.5	15129.1	15313.1	15721.4	16190.5	16839.5	18028.3	17961.6	18109.2	17864.6	14858.2
52.5°	11457.6	12306.7	13374.2	14397.3	15588.0	16752.6	18679.4	19380.9	20003.7	19870.2	16690.0
55°	9458.0	9840.1	10660.9	12537.2	14419.5	16386.7	18972.5	20527.3	21884.0	21764.6	18078.8
57.5°	7921.4	8263.0	8768.6	10335.4	12652.4	15555.7	19154.5	21226.8	23171.8	23159.7	19449.7
60°	6273.6	6635.5	7153.1	8263.0	10588.1	14120.2	19114.1	22023.5	24815.6	24916.6	21121.7
62.5°	4413.5	4811.9	5386.1	6421.2	8479.4	12260.1	18289.2	22599.6	26750.3	27025.4	23133.4
65°	2901.3	3164.1	3596.7	4490.4	6318.1	9868.4	16714.2	22674.4	28820.7	29285.7	25021.8
67.5°	2033.9	2135.0	2389.8	2875.0	4164.9	7567.6	14205.2	21900.0	30201.6	30725.2	25840.6
70°	1587.1	1637.6	1767.1	1961.1	2616.2	5088.8	10885.4	19886.3	29906.4	30452.2	24985.3
72.5°	1370.7	1419.3	1467.8	1492.1	1754.9	3141.8	7373.4	16627.2	27126.4	27496.4	21724.2
75°	1243.4	1255.5	1296.0	1287.9	1338.4	2038.0	4255.9	12114.6	21402.7	21275.3	16036.8
77.5°	1045.3	1061.5	1128.1	1118.1	1188.8	1393.0	2209.8	7818.3	13875.6	13010.2	8926.2
80°	885.5	893.6	966.4	954.3	1033.1	1008.9	1128.1	3985.0	5885.4	4985.7	2573.8
82.5°	307.3	380.1	738.0	760.2	788.5	610.6	651.0	1625.5	1797.3	1376.9	539.9
85°	149.6	159.7	376.1	533.7	531.8	307.3	317.4	580.3	566.1	444.7	180.0
87.5°	24.3	30.3	44.5	208.3	165.7	80.9	109.2	113.3	117.3	101.1	40.4
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°	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6	4595.6
2.5°	4646.1	4545.0	4332.7	4136.6	3982.9	3835.3	3752.4	3681.7	3641.2	3633.2	3633.2
5°	4771.5	4563.2	4177.1	3851.5	3639.3	3481.5	3398.6	3346.1	3319.8	3303.6	3301.6
7.5°	4951.4	4646.1	4096.2	3726.2	3503.8	3390.6	3348.1	3340.0	3338.0	3340.0	3346.1
10°	5200.0	4781.5	4088.1	3695.8	3509.8	3447.2	3445.1	3447.2	3455.3	3457.2	3459.3
12.5°	5469.0	4921.0	4120.4	3722.1	3586.7	3552.3	3546.2	3544.2	3550.3	3554.3	3556.3
15°	5762.1	5105.0	4175.0	3778.8	3671.6	3635.2	3629.1	3617.0	3615.0	3612.9	3611.0
17.5°	6063.4	5287.0	4235.7	3839.3	3726.2	3675.6	3653.4	3625.1	3602.9	3596.7	3602.9
20°	6368.6	5466.9	4278.1	3869.7	3730.2	3659.5	3615.0	3566.5	3528.0	3505.8	3513.9
22.5°	6694.2	5654.9	4304.4	3861.6	3693.8	3596.7	3515.9	3459.3	3400.6	3362.2	3364.3
25°	7011.6	5818.7	4302.3	3819.2	3623.1	3499.8	3396.6	3323.9	3243.0	3202.5	3202.5
27.5°	7316.9	5966.3	4251.8	3744.3	3522.0	3384.4	3261.1	3174.2	3095.4	3057.0	3054.9
30°	7632.3	6089.6	4173.0	3635.2	3402.7	3251.1	3115.6	3040.8	2970.0	2933.7	2931.6
32.5°	7945.7	6202.9	4061.8	3499.8	3265.2	3119.6	2986.2	2917.5	2875.0	2875.0	2877.0
35°	8277.2	6281.7	3914.2	3342.0	3119.6	2980.1	2875.0	2834.5	2830.5	2806.2	2800.2
37.5°	8627.0	6332.2	3734.3	3180.3	2976.1	2844.7	2812.3	2763.8	2723.3	2670.8	2662.7
40°	8995.0	6382.8	3517.9	3012.5	2824.5	2751.6	2737.5	2672.8	2557.6	2428.2	2410.0
42.5°	9441.8	6417.2	3293.5	2844.7	2664.7	2640.5	2660.7	2549.5	2365.5	2268.4	2270.5
45°	9959.4	6473.8	3087.3	2678.8	2501.0	2501.0	2585.9	2440.3	2288.7	2228.0	2238.1
47.5°	10630.6	6605.2	2895.2	2496.9	2349.3	2389.8	2420.1	2308.9	2223.9	2149.1	2147.2
50°	11601.1	6920.6	2697.1	2312.9	2234.1	2315.0	2272.5	2207.8	2108.7	2048.1	2042.0
52.5°	12806.0	7106.6	2521.2	2147.2	2135.0	2215.8	2155.3	2094.6	2019.8	1938.9	1922.7
55°	13626.9	7141.0	2373.6	2025.8	2068.3	2060.2	2038.0	1983.4	1943.0	1835.8	1837.8
57.5°	14544.7	7209.7	2252.2	1953.0	2025.8	1936.8	1928.7	1882.3	1829.7	1757.0	1732.7
60°	15642.6	7316.9	2147.2	1924.7	1989.4	1856.0	1815.6	1797.3	1744.9	1708.4	1718.5
62.5°	16839.5	7413.9	2040.0	1928.7	1947.0	1777.1	1716.5	1710.4	1678.1	1665.9	1665.9
65°	17656.3	7149.1	1906.6	1924.7	1880.3	1696.3	1619.5	1617.4	1591.1	1587.1	1585.1
67.5°	17371.3	6310.0	1726.6	1868.2	1811.5	1615.4	1530.5	1522.4	1488.0	1490.0	1490.0
70°	15943.9	5113.1	1477.9	1728.7	1726.6	1542.6	1437.5	1411.2	1364.7	1372.8	1380.9
72.5°	13267.0	3788.8	1144.3	1496.1	1591.1	1475.9	1330.3	1287.9	1229.3	1237.4	1235.3
75°	9581.3	2575.7	833.0	1138.3	1385.0	1397.1	1225.2	1152.4	1081.7	1093.8	1097.9
77.5°	4902.9	1459.7	612.6	784.4	1087.7	1269.7	1130.2	1033.1	1017.0	1130.2	1114.0
80°	1599.2	731.8	424.6	549.9	713.7	1039.2	990.7	879.4	875.5	901.7	774.4
82.5°	477.1	309.3	273.0	361.9	394.2	796.6	855.3	665.1	572.2	602.5	622.7
85°	163.8	149.6	155.7	180.0	188.0	467.0	598.5	440.7	416.5	459.0	452.8
87.5°	38.4	52.6	44.5	40.4	40.4	113.3	232.5	184.0	254.7	169.8	163.8
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)