

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: P970811

Luminaire Tested: **NAV-SB6C-722-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-722-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38379.1 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

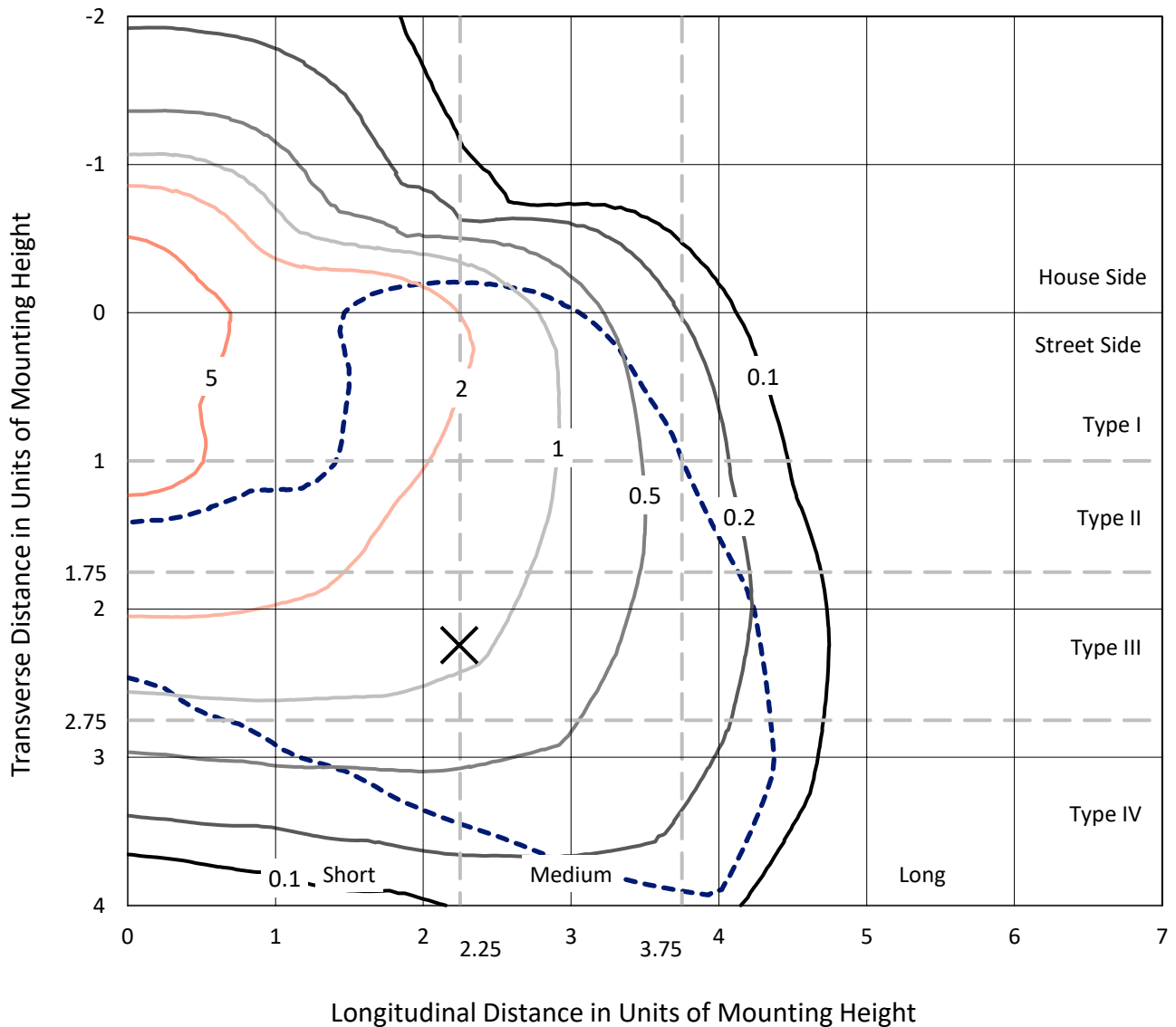
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P970811  
 CATALOG NUMBER: NAV-SB6C-722-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

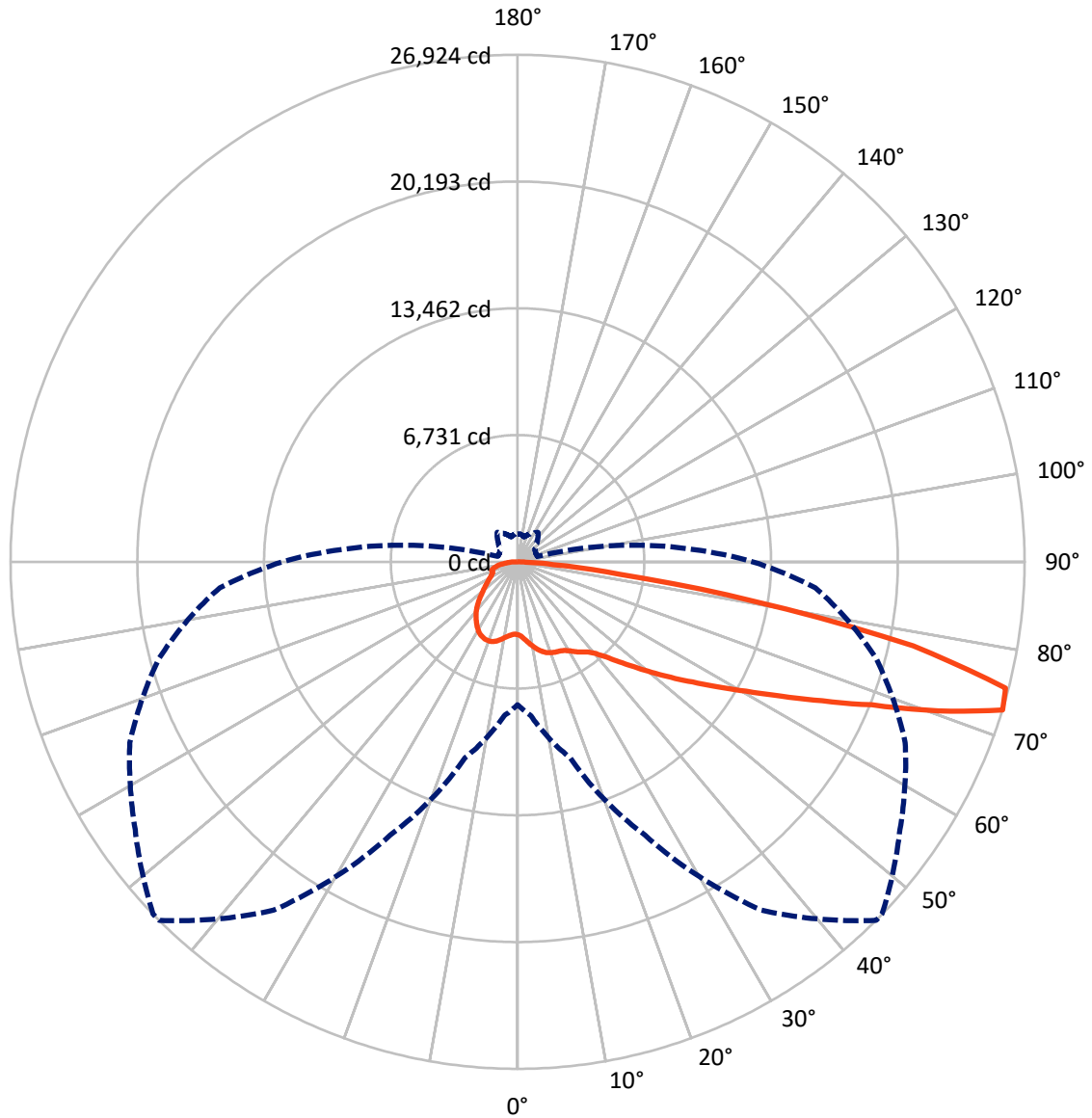
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P970811  
CATALOG NUMBER: NAV-SB6C-722-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P970811  
 CATALOG NUMBER: NAV-SB6C-722-U-T4W

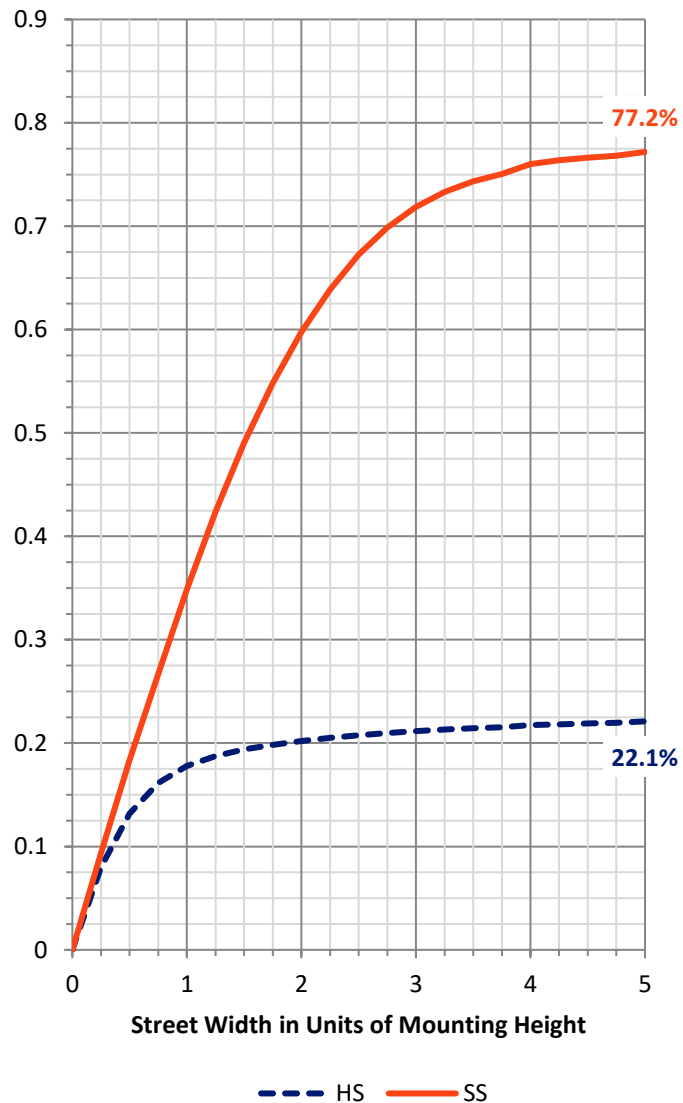
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8676.2	0.0	8676.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	29702.9	0.0	29702.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	38379.1	0.0	38379.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	394.1	1.0
10°-20°	1313.9	3.4
20°-30°	2285.5	6.0
30°-40°	3276.4	8.5
40°-50°	4613.4	12.0
50°-60°	7066.4	18.4
60°-70°	10236.7	26.7
70°-80°	8174.6	21.3
80°-90°	1018.1	2.7
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°	38379.1	100.0
0°-180°	38379.1	100.0

**Coefficient of Utilization**



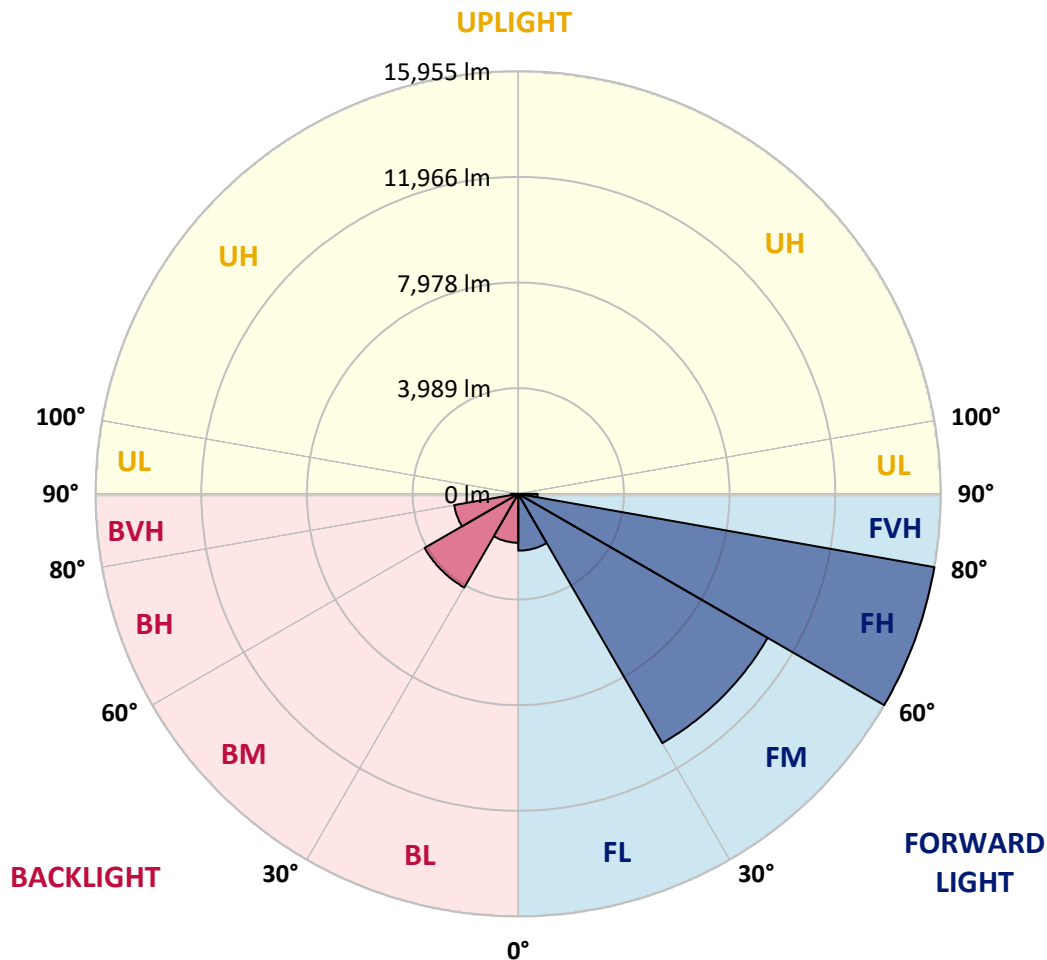
REPORT NUMBER: P970811  
 CATALOG NUMBER: NAV-SB6C-722-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2146.2	5.6			
FM (30°-60°)	10871.0	28.3			
FH (60°-80°)	15955.3	41.6			G5
FVH (80°-90°)	730.4	1.9			G4/750
BL (0°-30°)	1847.2	4.8	B3/2500		
BM (30°-60°)	4085.3	10.6	B3/5000		
BH (60°-80°)	2456.0	6.4	B3/2500		G3/2500
BVH (80°-90°)	287.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



REPORT NUMBER: P970811

CATALOG NUMBER: NAV-SB6C-722-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3871.7	3871.7	3871.7	3871.7	3871.7	3871.7	3871.7	3871.7	3871.7	3871.7	3871.7
2.5°	4023.3	4049.6	4025.4	4003.1	3993.0	3966.7	3964.7	3948.5	3938.5	3910.1	3902.1
5°	4304.4	4338.7	4298.3	4253.9	4213.4	4148.7	4140.6	4094.1	4041.6	3980.9	3946.6
7.5°	4621.8	4652.1	4605.6	4538.9	4468.1	4361.0	4358.9	4274.0	4191.1	4088.0	4029.4
10°	4898.8	4939.2	4876.5	4785.5	4696.5	4575.3	4561.1	4464.1	4358.9	4225.6	4136.6
12.5°	5143.4	5171.7	5111.1	4999.8	4896.7	4775.5	4757.2	4650.1	4532.9	4381.2	4268.0
15°	5337.5	5373.9	5293.0	5173.7	5064.5	4945.2	4929.1	4832.1	4714.8	4555.1	4409.4
17.5°	5464.9	5495.2	5412.3	5278.9	5173.7	5074.7	5062.6	4981.7	4878.6	4716.8	4561.1
20°	5513.4	5545.8	5458.8	5323.3	5226.3	5149.5	5143.4	5084.7	5014.0	4866.4	4708.7
22.5°	5562.0	5592.2	5479.0	5337.5	5252.6	5204.0	5202.1	5163.6	5135.4	5014.0	4860.3
25°	5758.0	5766.1	5614.4	5410.3	5289.0	5246.5	5244.5	5242.5	5254.6	5159.5	5024.1
27.5°	5927.9	5925.8	5796.5	5604.4	5416.3	5327.3	5325.4	5345.6	5384.0	5305.1	5194.0
30°	6176.5	6154.3	6000.7	5800.5	5628.6	5491.1	5479.0	5460.8	5491.1	5428.5	5363.7
32.5°	6704.2	6633.5	6384.7	6028.9	5804.5	5699.4	5683.2	5570.0	5582.2	5543.7	5511.3
35°	7460.4	7367.4	7035.8	6461.6	6022.9	5873.2	5865.2	5721.7	5697.4	5663.0	5675.1
37.5°	8360.0	8244.8	7858.7	7088.4	6399.0	6075.5	6063.3	5933.9	5834.8	5798.4	5867.2
40°	9263.7	9118.2	8798.8	7852.6	6952.9	6413.1	6374.7	6178.6	6065.3	6004.7	6150.2
42.5°	10141.2	10019.9	9747.0	8709.8	7636.2	6906.3	6821.5	6485.9	6400.9	6344.3	6607.2
45°	10917.6	10808.4	10608.2	9625.7	8436.9	7577.6	7494.7	6946.8	6920.5	6920.5	7300.7
47.5°	11548.4	11524.1	11311.8	10559.8	9381.0	8341.9	8198.3	7587.8	7658.5	7767.7	8285.3
50°	12247.9	12181.2	11954.8	11479.7	10491.0	9217.3	9100.1	8374.1	8639.0	8938.3	9708.6
52.5°	12890.8	12927.2	12674.5	12438.0	11744.4	10193.8	9987.6	9302.2	9874.3	10369.7	11376.6
55°	13551.9	13554.0	13483.3	13450.9	13058.6	11273.5	11046.9	10418.2	11328.0	11942.6	13321.5
57.5°	14172.7	14176.7	14281.8	14566.9	14583.1	12518.8	12262.1	11788.9	12943.4	13570.2	15327.1
60°	14726.6	14754.9	15042.0	15709.3	15923.5	13946.3	13703.6	13408.4	14613.4	15244.2	17435.8
62.5°	14912.6	15015.7	15654.6	16602.8	17247.8	15697.1	15458.5	15282.6	16368.3	16954.6	19198.8
65°	14597.2	14833.8	16069.0	17340.7	18610.4	17777.5	17540.9	17348.8	18191.9	18743.9	20646.4
67.5°	13822.8	14128.2	16044.8	18115.1	20264.2	20280.4	20060.1	19609.2	20147.0	20359.3	21117.5
70°	11782.9	12239.8	14631.6	18404.2	22162.8	23703.3	23491.1	22330.5	22098.0	21070.9	19791.2
72.5°	7591.8	8206.4	10774.1	16024.6	22585.3	26924.0	26911.9	24787.0	22714.6	19688.1	15872.9
75°	2769.9	3145.9	5005.9	10058.3	18958.2	26760.2	26839.1	24366.4	20735.3	15207.8	9888.5
77.5°	1008.9	1103.9	1633.6	3865.7	11659.6	21471.3	21635.0	19479.8	14759.0	7632.3	3918.2
80°	529.7	582.3	837.0	1500.2	4995.8	12751.3	13008.1	11576.7	6936.7	2298.8	1174.6
82.5°	293.2	317.4	469.0	814.8	2250.3	5452.7	5606.3	4573.2	2440.3	974.5	485.2
85°	157.7	167.8	220.4	444.7	1099.8	1890.4	1932.8	1366.7	972.5	572.2	234.5
87.5°	46.5	56.6	72.8	141.6	430.6	424.6	434.7	270.9	384.2	289.2	76.9
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: P970811  
 CATALOG NUMBER: NAV-SB6C-722-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3871.7	3871.7	3871.7	3871.7	3871.7	3871.7	3871.7	3871.7	3871.7	3871.7	3871.7
2.5°	3889.9	3883.8	3861.6	3851.4	3839.3	3837.3	3847.4	3849.5	3851.4	3853.5	3861.6
5°	3926.3	3906.1	3885.9	3873.7	3877.8	3879.8	3900.0	3914.2	3924.3	3932.3	3936.4
7.5°	3997.1	3980.9	3946.6	3944.5	3950.6	3968.7	3995.0	4027.3	4045.6	4059.7	4063.8
10°	4102.2	4071.8	4031.4	4037.5	4049.6	4075.9	4130.4	4156.8	4187.1	4213.4	4207.3
12.5°	4209.4	4183.0	4136.6	4140.6	4160.8	4207.3	4259.9	4292.2	4312.5	4332.7	4340.8
15°	4348.9	4302.3	4251.8	4251.8	4288.2	4338.7	4363.0	4389.3	4401.5	4423.7	4431.7
17.5°	4492.4	4431.7	4365.1	4361.0	4405.4	4429.7	4443.9	4447.9	4452.0	4476.2	4484.3
20°	4636.0	4569.2	4474.2	4466.1	4476.2	4472.2	4470.1	4466.1	4472.2	4502.5	4514.6
22.5°	4777.4	4700.6	4569.2	4532.9	4504.6	4466.1	4464.1	4462.0	4466.1	4496.5	4516.7
25°	4943.3	4850.2	4674.3	4565.1	4470.1	4417.5	4423.7	4425.6	4429.7	4453.9	4486.3
27.5°	5123.2	5020.0	4771.4	4555.1	4383.2	4346.8	4336.7	4342.8	4357.0	4395.3	4433.7
30°	5303.1	5181.8	4860.3	4514.6	4274.0	4223.5	4191.1	4205.3	4249.8	4288.2	4330.6
32.5°	5466.8	5345.6	4931.1	4425.6	4134.5	4055.7	4013.2	4031.4	4075.9	4090.1	4140.6
35°	5658.9	5521.5	4961.4	4284.2	3982.9	3861.6	3805.0	3778.7	3800.9	3786.8	3831.2
37.5°	5873.2	5729.7	4957.4	4098.2	3805.0	3665.5	3586.7	3487.6	3441.0	3392.5	3422.9
40°	6190.7	5984.5	4908.8	3873.7	3584.6	3457.2	3315.7	3147.9	3042.8	2947.8	2953.8
42.5°	6623.3	6338.3	4820.0	3627.1	3336.0	3216.7	3024.6	2828.5	2662.6	2505.0	2490.9
45°	7268.3	6801.3	4708.7	3364.3	3067.0	2949.7	2741.6	2521.2	2333.1	2131.0	2106.7
47.5°	8198.3	7424.0	4603.6	3065.1	2784.0	2676.8	2488.8	2284.6	2062.2	1866.1	1843.9
50°	9476.0	8317.6	4506.5	2773.9	2505.0	2424.1	2274.5	2066.3	1841.8	1684.2	1674.0
52.5°	11101.6	9532.7	4466.1	2492.8	2244.1	2213.8	2094.6	1900.5	1688.2	1554.7	1544.7
55°	12967.7	10986.4	4466.1	2223.9	2015.7	2025.8	1942.9	1763.0	1579.0	1459.7	1447.6
57.5°	14872.2	12458.2	4385.3	1975.3	1821.6	1864.1	1811.5	1653.8	1488.0	1364.7	1344.5
60°	16627.0	13691.4	4057.7	1748.9	1649.7	1716.5	1682.1	1546.6	1344.5	1241.4	1225.2
62.5°	17975.6	14387.0	3426.9	1568.9	1508.3	1585.1	1566.9	1405.2	1318.1	1275.7	1261.6
65°	18650.9	14273.7	2620.2	1409.2	1389.0	1508.3	1469.8	1463.8	1395.0	1346.5	1330.3
67.5°	18236.4	13299.3	1900.5	1291.9	1320.2	1437.5	1585.1	1609.4	1481.9	1386.9	1370.7
70°	16418.9	11536.3	1415.2	1180.7	1233.3	1439.5	1807.5	1684.2	1453.7	1342.4	1324.3
72.5°	12490.5	8602.6	1097.8	1063.4	1120.0	1449.7	1906.5	1649.7	1372.8	1484.0	1471.9
75°	7142.9	4722.9	881.5	919.9	978.6	1354.6	1856.0	1560.8	1310.2	1362.6	1362.6
77.5°	2723.3	1815.6	727.9	778.4	786.5	1182.7	1775.1	1554.7	1247.4	1217.1	1110.0
80°	944.1	709.6	602.5	618.7	608.5	1051.3	1702.3	1352.6	1021.0	913.9	883.6
82.5°	386.1	353.8	477.1	456.9	432.7	816.8	1374.8	1105.9	835.0	737.9	729.9
85°	167.8	224.4	315.4	277.0	250.7	566.1	1101.9	936.1	705.6	608.5	606.5
87.5°	34.3	84.9	133.5	125.4	129.4	378.1	782.4	665.1	499.4	374.0	293.2
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)