

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: P971331

Luminaire Tested: **NAV-SB6D-722-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971331  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-722-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

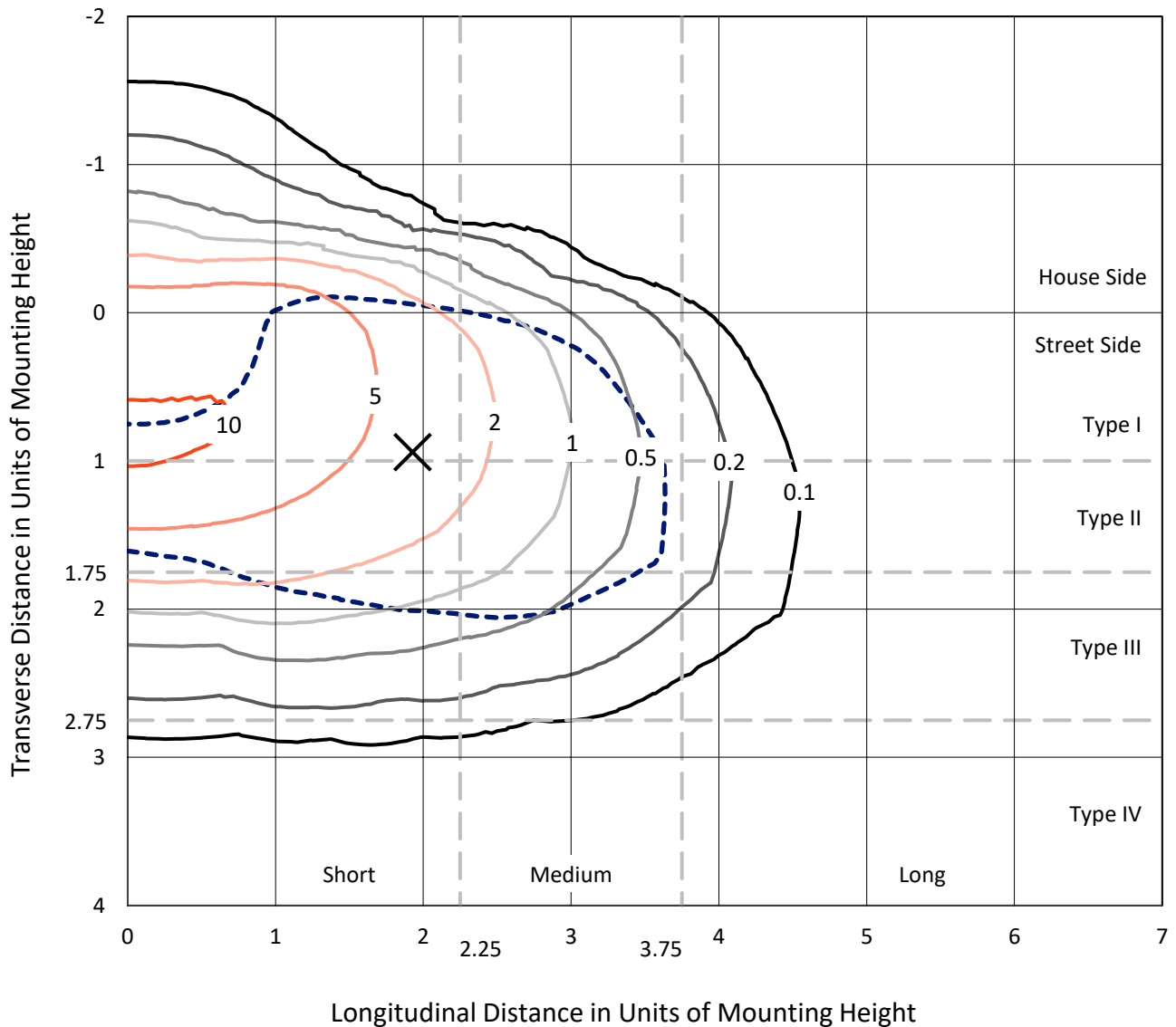
Lumens per Lamp: N/A  
Luminaire Lumens: 40978.5 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): 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

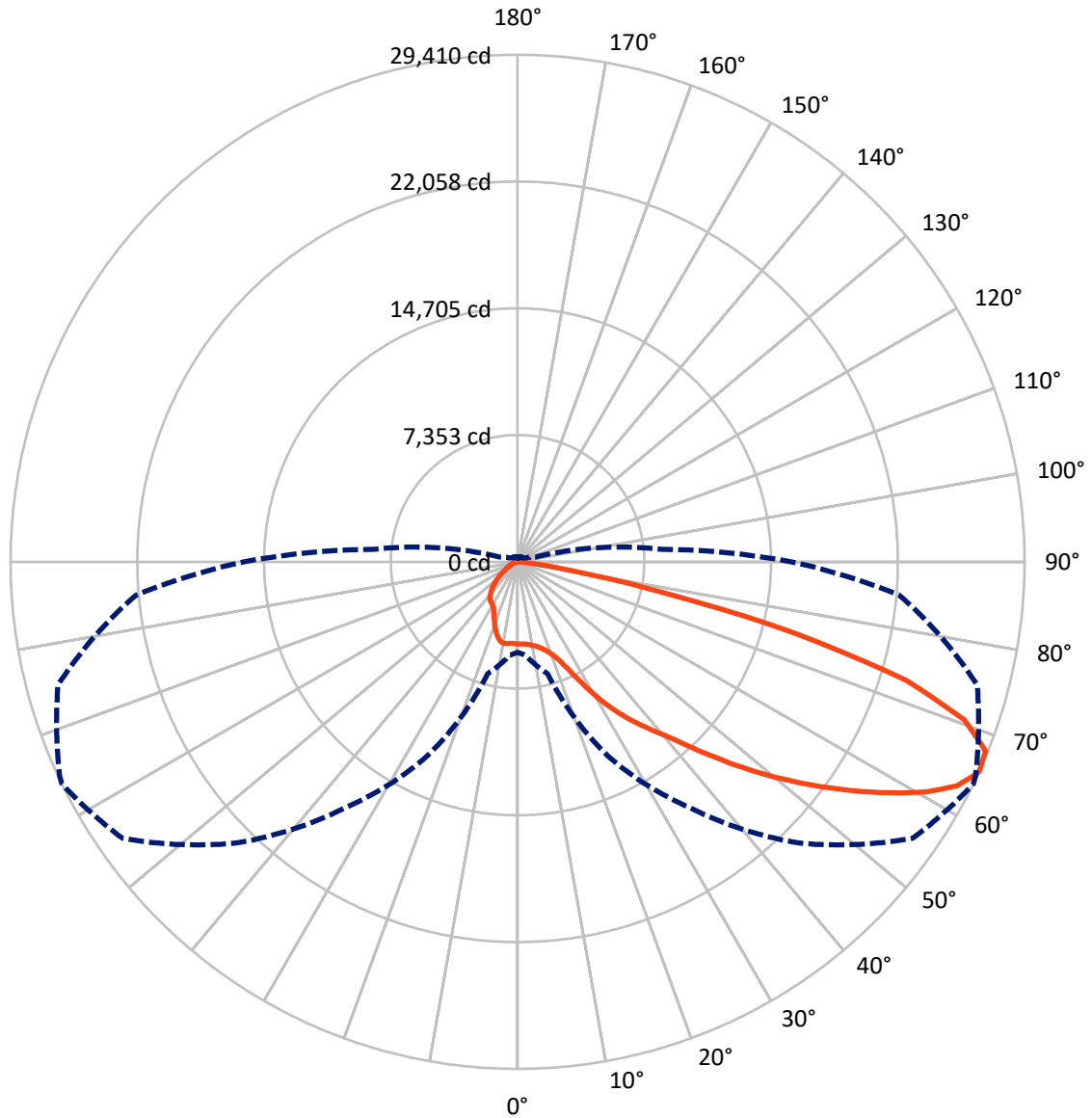
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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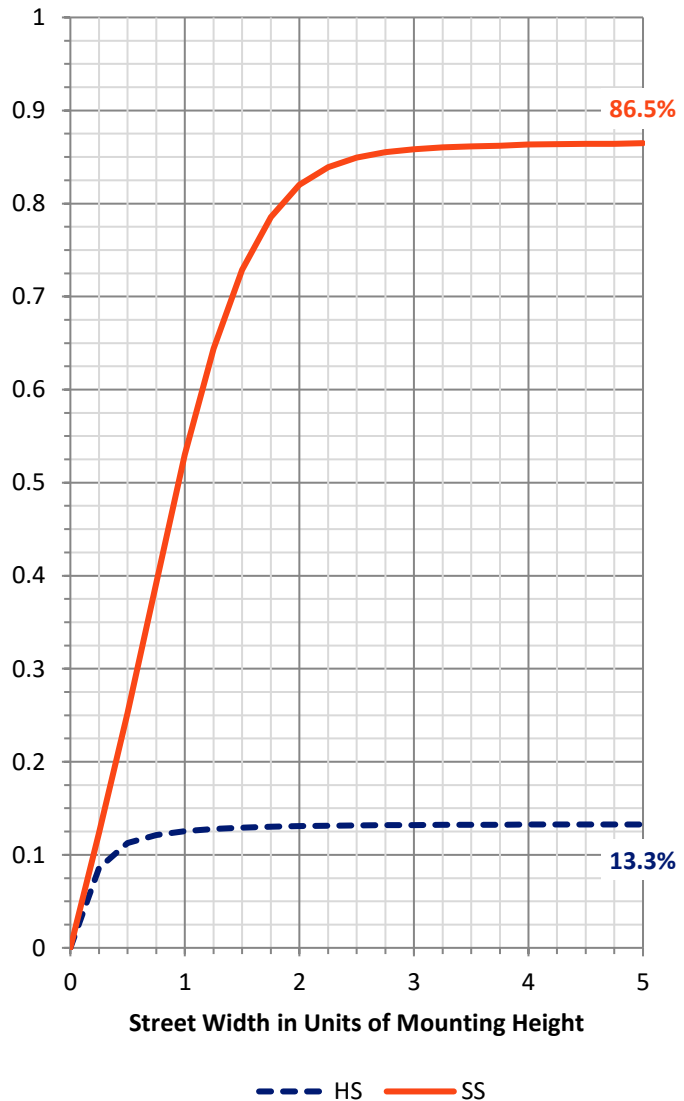
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5480.1	0.0	5480.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	35498.4	0.0	35498.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	40978.5	0.0	40978.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.7	1.1
10°-20°	1192.7	2.9
20°-30°	2260.0	5.5
30°-40°	4573.2	11.2
40°-50°	7790.5	19.0
50°-60°	10594.5	25.9
60°-70°	9948.8	24.3
70°-80°	3985.9	9.7
80°-90°	193.1	0.5
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°	40978.5	100.0
0°-180°	40978.5	100.0

**Coefficient of Utilization**



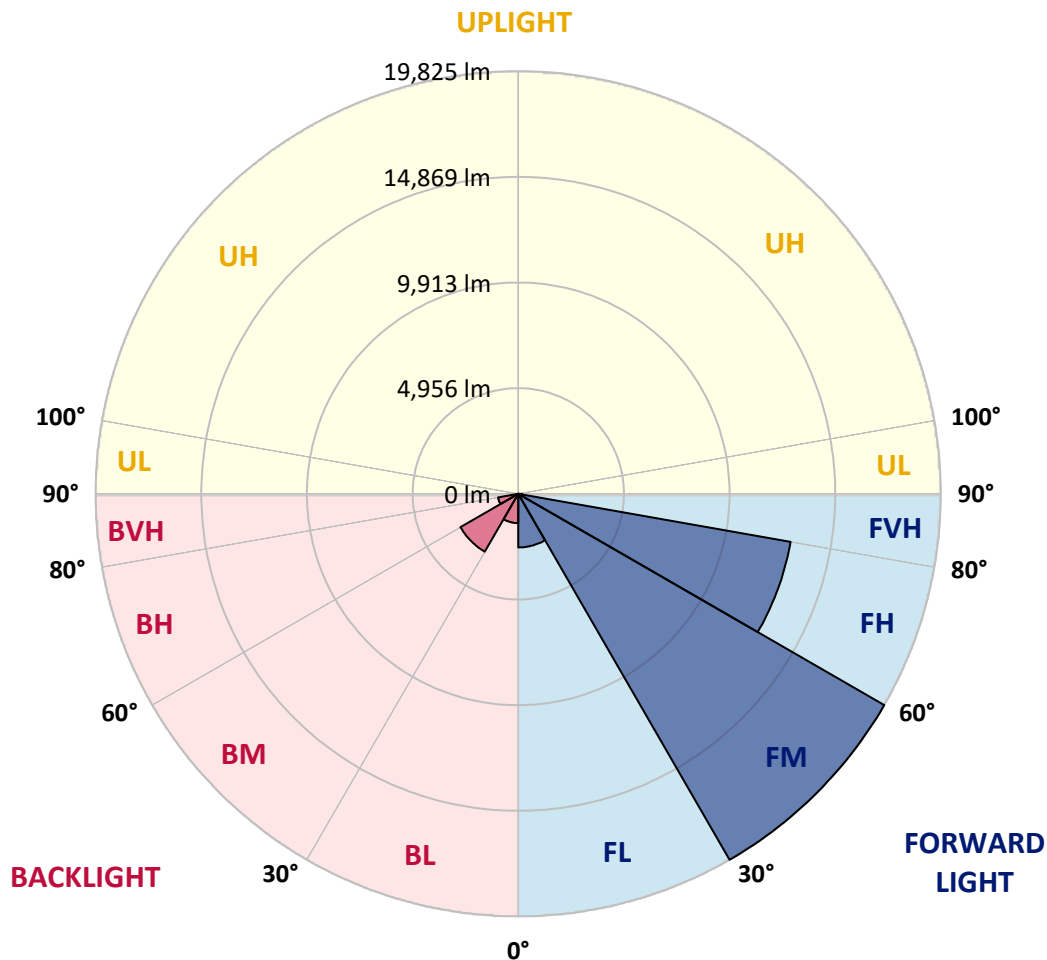
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2516.6	6.1			
FM (30°-60°)	19825.3	48.4			
FH (60°-80°)	12972.9	31.7			G5
FVH (80°-90°)	183.7	0.4			G2/225
BL (0°-30°)	1375.9	3.4	B3/2500		
BM (30°-60°)	3132.9	7.6	B3/5000		
BH (60°-80°)	961.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4766.2	4766.2	4766.2	4766.2	4766.2	4766.2	4766.2	4766.2	4766.2	4766.2	4766.2
2.5°	4749.7	4782.8	4774.4	4766.2	4763.5	4769.0	4771.7	4769.0	4769.0	4769.0	4771.7
5°	4659.0	4686.5	4686.5	4705.8	4733.2	4766.2	4791.0	4796.5	4801.9	4810.2	4807.5
7.5°	4486.0	4508.0	4524.5	4587.7	4656.4	4744.2	4818.4	4856.9	4862.4	4892.6	4903.6
10°	4367.9	4395.4	4422.9	4488.8	4587.7	4719.5	4845.9	4939.3	4953.0	5024.4	5057.5
12.5°	4362.4	4389.9	4425.5	4497.0	4612.4	4752.5	4906.4	5041.0	5065.7	5170.0	5238.7
15°	4420.1	4453.0	4486.0	4574.0	4697.6	4867.8	5032.6	5200.2	5224.9	5373.4	5447.5
17.5°	4538.2	4582.2	4606.9	4694.8	4826.6	5016.2	5233.2	5425.5	5447.5	5620.6	5714.0
20°	4771.7	4824.0	4832.2	4903.6	5032.6	5236.0	5494.2	5733.2	5760.7	5958.4	6062.9
22.5°	5255.2	5329.4	5263.5	5299.1	5414.6	5617.8	5898.1	6200.2	6238.7	6464.0	6557.3
25°	6106.8	6211.2	6040.8	5980.5	6029.9	6241.4	6593.0	6974.9	7018.9	7200.1	7246.9
27.5°	7779.7	7645.2	7387.0	7134.2	6985.9	7106.7	7502.4	7974.8	8029.7	8205.6	8150.7
30°	9617.6	9499.5	9150.6	8590.2	8238.5	8219.4	8584.7	9112.1	9175.3	9342.9	9175.3
32.5°	11458.2	11345.5	10966.5	10277.0	9667.1	9364.9	9617.6	10202.7	10235.8	10342.9	10095.6
35°	13268.5	13153.1	12774.1	12068.0	11318.0	10631.3	10581.8	11241.2	11252.1	11364.8	10996.6
37.5°	15089.8	14993.7	14589.8	13897.6	13158.6	12210.8	11752.1	12224.6	12238.3	12348.2	11966.4
40°	16389.2	16430.4	16153.0	15617.3	14982.7	13947.1	13065.3	13271.3	13188.9	13372.9	13144.9
42.5°	17504.5	17586.9	17345.2	17076.0	16707.9	15795.9	14691.5	14655.8	14523.9	14622.9	14386.6
45°	18468.8	18537.4	18320.4	18257.2	18249.0	17608.9	16468.9	16254.6	16070.6	16051.3	15768.4
47.5°	18823.1	18955.0	19048.4	19260.0	19672.0	19402.7	18306.7	17974.3	17768.3	17617.2	17169.4
50°	18957.8	19097.9	19416.5	20031.9	21007.1	21122.5	20136.2	19762.6	19510.0	19235.3	18575.9
52.5°	18776.5	19026.5	19455.0	20490.7	21905.4	22501.5	21891.6	21564.8	21276.3	20828.5	19850.6
55°	17707.8	17957.8	18834.2	20485.1	22353.2	23468.5	23550.9	23405.3	23081.2	22375.1	20880.7
57.5°	15455.2	15826.1	17213.3	19787.4	22344.9	24300.9	25177.2	25281.6	24919.0	23908.0	21691.2
60°	12334.4	12837.2	14529.4	18240.8	21655.4	24751.4	26603.0	27124.9	26740.3	25419.0	22347.7
62.5°	8606.7	9189.0	10790.6	15817.8	20078.5	24427.2	27644.0	28608.4	28317.2	26770.5	22600.4
65°	5249.7	5436.5	6727.7	12447.1	17397.4	23070.2	27965.5	29410.4	29314.3	27597.4	22226.8
67.5°	3497.1	3653.6	4024.5	8535.3	13504.8	20358.8	27196.3	29270.4	29297.9	27462.8	20858.8
70°	2107.0	2241.7	2483.4	4964.0	8752.3	16114.5	24814.5	27484.8	27644.0	25663.4	18265.5
72.5°	868.1	958.8	1178.5	2249.9	4532.8	10227.4	19759.9	23597.7	23968.5	21578.5	14018.4
75°	491.7	538.4	692.3	1129.0	1967.0	4766.2	11969.1	16751.8	17298.5	14872.9	8433.6
77.5°	326.9	348.9	447.8	730.7	1107.1	1626.3	5115.1	8727.6	9771.4	8123.2	3650.9
80°	219.8	239.0	307.7	489.0	719.8	697.7	1629.0	3233.4	3977.8	2791.1	890.1
82.5°	148.3	151.1	219.8	321.4	456.0	337.9	480.7	1005.4	1263.6	807.6	337.9
85°	85.2	82.4	162.1	186.8	203.3	140.1	145.5	302.2	395.5	340.6	192.3
87.5°	11.0	16.5	63.1	49.4	27.5	30.2	30.2	52.2	76.9	82.4	41.2
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°	4766.2	4766.2	4766.2	4766.2	4766.2	4766.2	4766.2	4766.2	4766.2	4766.2	4766.2
2.5°	4771.7	4769.0	4760.7	4752.5	4733.2	4722.3	4727.8	4722.3	4719.5	4722.3	4733.2
5°	4807.5	4799.2	4777.2	4749.7	4711.3	4664.6	4634.3	4590.4	4549.2	4524.5	4530.0
7.5°	4903.6	4895.3	4865.2	4788.2	4664.6	4469.5	4291.0	4134.3	4016.3	3947.6	3950.3
10°	5057.5	5043.7	4997.0	4826.6	4502.5	4076.7	3722.3	3428.4	3236.1	3145.4	3137.2
12.5°	5238.7	5222.3	5139.9	4791.0	4194.8	3530.0	3041.1	2714.1	2535.5	2455.9	2447.7
15°	5453.0	5431.1	5268.9	4620.6	3747.1	2925.7	2477.8	2233.4	2118.1	2046.6	2049.4
17.5°	5719.5	5681.0	5365.1	4365.2	3260.8	2464.1	2131.8	1947.7	1846.0	1777.4	1771.9
20°	6065.6	6002.4	5442.0	4060.2	2813.0	2173.0	1898.2	1744.4	1667.5	1607.1	1596.0
22.5°	6549.1	6458.4	5535.4	3730.6	2497.1	1972.4	1725.2	1612.5	1549.4	1480.7	1469.7
25°	7147.9	7040.8	5650.8	3425.7	2280.1	1799.4	1598.8	1505.4	1431.2	1351.6	1343.4
27.5°	7985.8	7793.5	5788.2	3175.7	2093.3	1651.0	1483.5	1379.0	1293.9	1227.9	1214.2
30°	8919.9	8604.0	5909.0	3024.6	1923.0	1513.6	1332.3	1227.9	1148.3	1101.6	1093.4
32.5°	9804.4	9375.9	5988.7	2958.7	1769.2	1357.1	1167.5	1054.9	994.5	980.7	988.9
35°	10639.5	10073.6	5980.5	2895.4	1631.8	1200.5	1005.4	890.1	843.4	851.6	851.6
37.5°	11601.1	10818.1	5922.8	2796.5	1519.2	1057.6	865.3	763.7	722.5	725.2	736.3
40°	12719.1	11677.9	5887.1	2609.8	1395.5	925.8	750.0	667.6	637.3	626.4	623.6
42.5°	13911.3	12510.3	5892.5	2398.2	1241.7	807.6	670.2	601.6	574.1	565.9	563.1
45°	15109.0	13304.2	5900.8	2178.4	1079.6	717.0	612.6	554.9	538.4	527.5	527.5
47.5°	16235.4	13980.0	5747.0	1942.2	920.2	648.3	565.9	527.5	513.7	500.0	500.0
50°	17284.8	14430.6	5376.1	1667.5	793.9	593.4	530.2	502.8	489.0	475.3	475.3
52.5°	18100.7	14501.9	4763.5	1384.6	706.0	552.2	508.2	483.5	467.0	453.3	450.5
55°	18463.2	14054.2	3892.6	1120.8	637.3	516.5	486.3	461.6	442.3	428.6	425.8
57.5°	18369.8	13111.9	3035.5	901.1	571.4	480.7	458.8	442.3	420.4	398.3	395.5
60°	17911.1	11850.9	2288.3	750.0	511.0	442.3	428.6	414.8	384.6	351.7	346.1
62.5°	17117.2	10265.9	1631.8	620.8	445.1	398.3	392.9	381.8	337.9	277.5	271.9
65°	15903.0	8340.2	1098.8	516.5	381.8	348.9	351.7	332.4	274.7	206.0	200.5
67.5°	14128.4	6098.5	703.3	423.0	318.7	291.2	294.0	283.0	233.5	175.8	167.6
70°	11867.4	4038.2	458.8	321.4	255.4	225.3	241.7	244.5	197.8	142.9	137.4
72.5°	8700.1	2384.5	321.4	239.0	186.8	156.6	197.8	203.3	159.3	107.1	101.7
75°	4958.5	1131.8	241.7	173.0	115.4	109.9	153.9	153.9	109.9	71.4	65.9
77.5°	2082.3	472.5	170.4	112.6	65.9	63.1	104.3	96.1	54.9	33.0	33.0
80°	601.6	211.6	90.6	54.9	27.5	24.7	41.2	30.2	13.7	5.5	5.5
82.5°	236.3	93.4	35.7	21.9	11.0	11.0	5.5	0.0	0.0	0.0	0.0
85°	140.1	38.4	16.5	8.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	35.7	8.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)