

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: P970336

Luminaire Tested: **NAV-SB6B-730-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970336  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6B-730-U-T2U-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

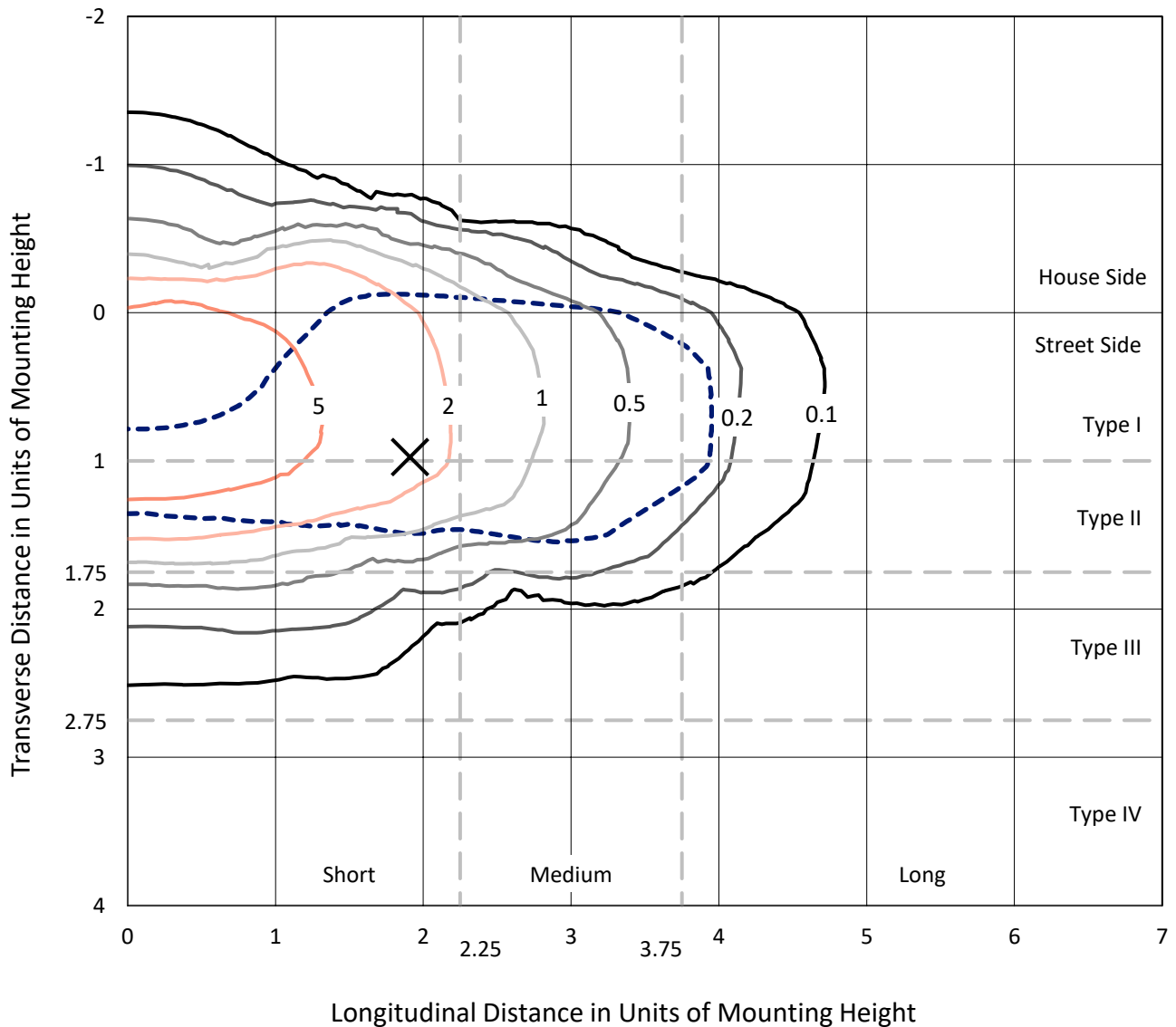
Lumens per Lamp: N/A  
Luminaire Lumens: 26749.4 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): 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

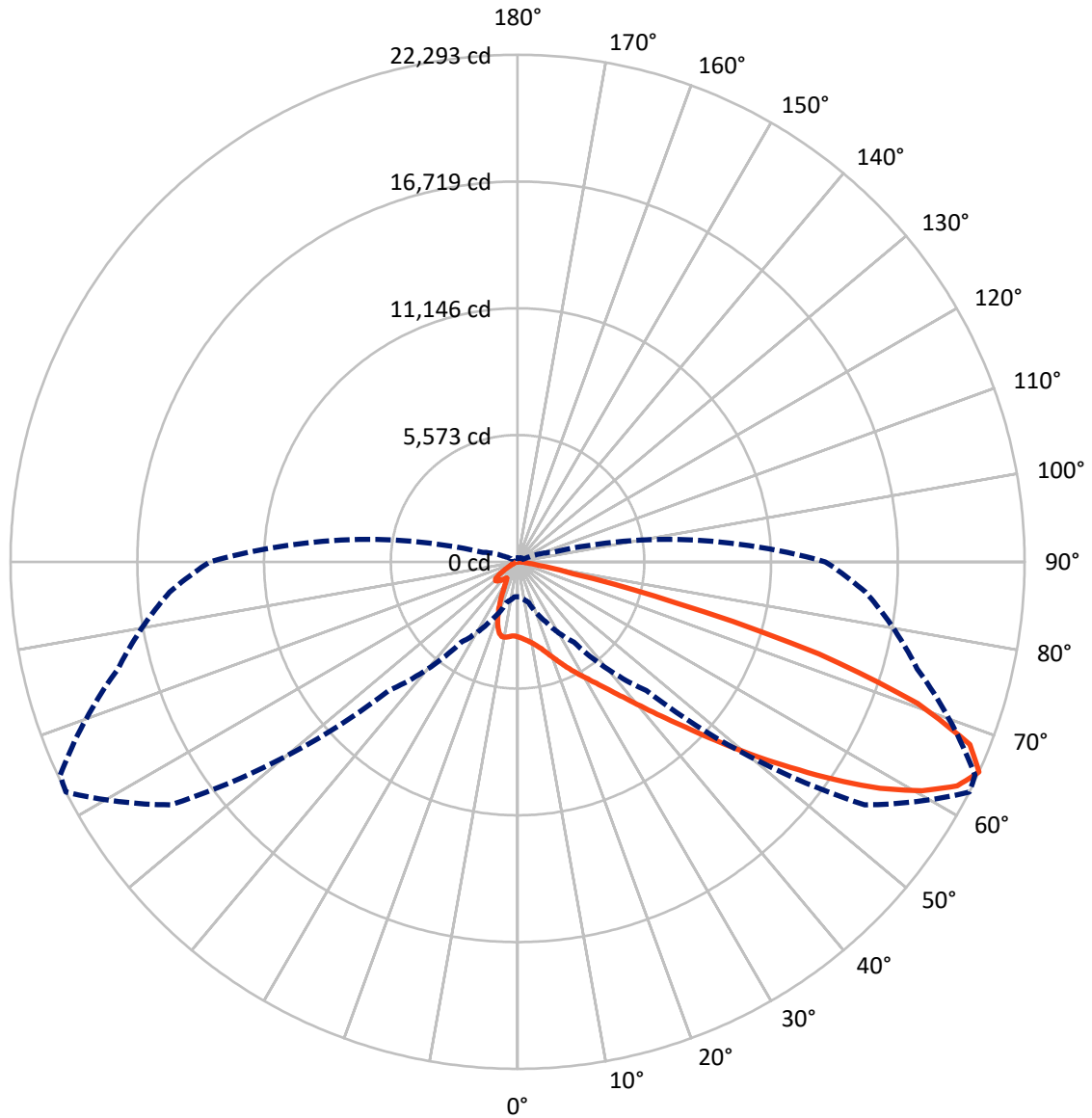
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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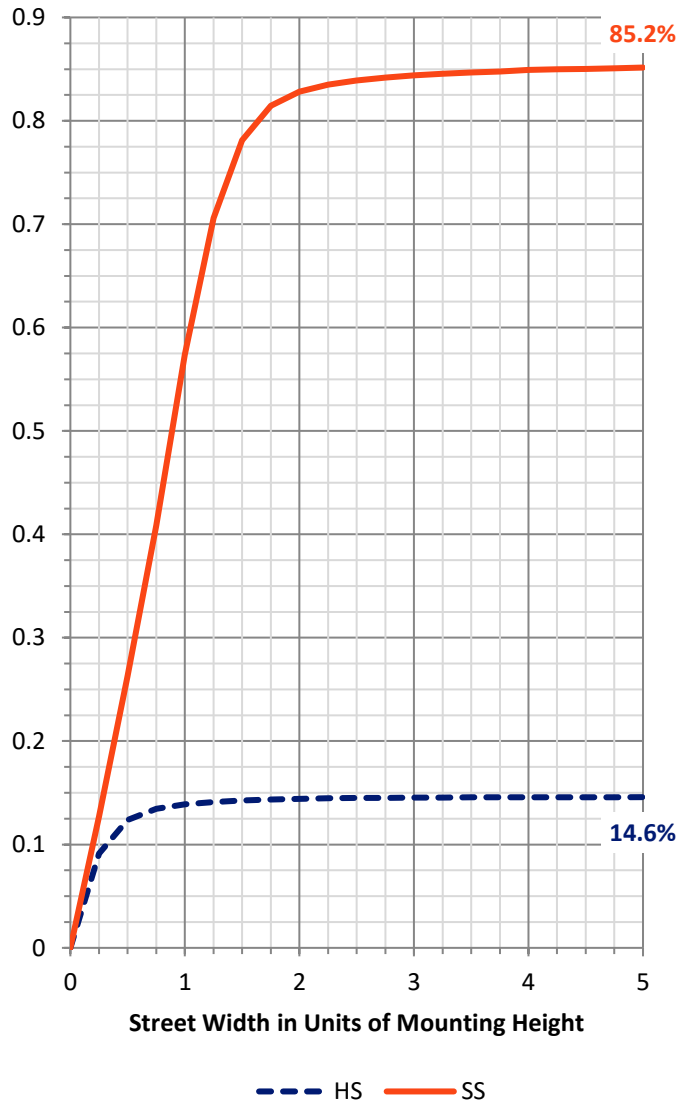
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3932.0	0.0	3932.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	22817.5	0.0	22817.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	26749.4	0.0	26749.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.1	1.2
10°-20°	863.1	3.2
20°-30°	1502.8	5.6
30°-40°	2708.6	10.1
40°-50°	5372.1	20.1
50°-60°	7317.7	27.4
60°-70°	5840.9	21.8
70°-80°	2643.2	9.9
80°-90°	190.0	0.7
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°	26749.4	100.0
0°-180°	26749.4	100.0

**Coefficient of Utilization**



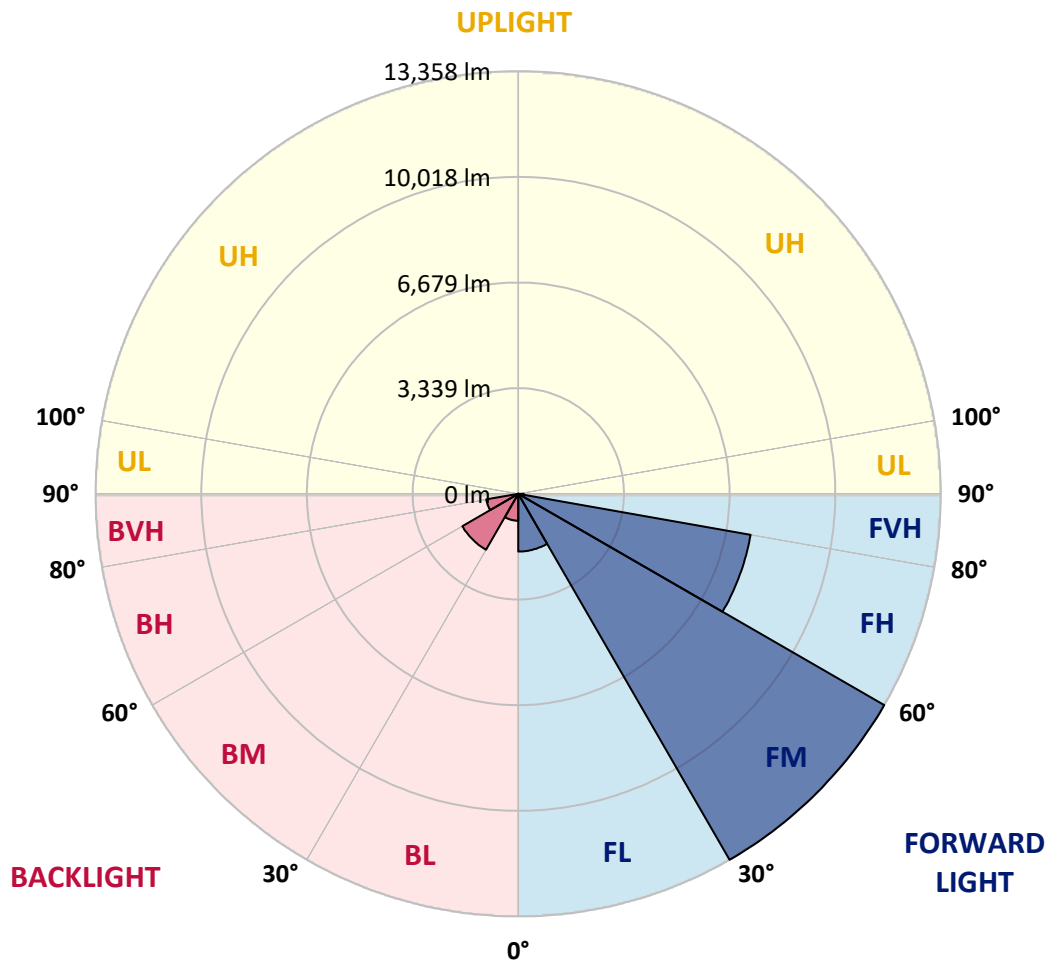
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1826.0	6.8			
FM (30°-60°)	13358.0	49.9			
FH (60°-80°)	7457.6	27.9			G3/7500
FVH (80°-90°)	175.9	0.7			G2/225
BL (0°-30°)	850.9	3.2	B2/1000		
BM (30°-60°)	2040.4	7.6	B2/2500		
BH (60°-80°)	1026.5	3.8	B3/2500		G3/2500
BVH (80°-90°)	14.1	0.1			G1/100
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4
2.5°	3378.7	3369.5	3382.4	3376.9	3373.2	3365.8	3362.1	3358.4	3351.0	3345.6	3323.5
5°	3387.8	3382.4	3395.2	3406.3	3417.4	3428.3	3433.9	3441.2	3433.9	3419.2	3397.1
7.5°	3310.5	3306.9	3334.5	3367.6	3417.4	3459.7	3505.6	3531.4	3533.3	3527.7	3503.9
10°	3305.1	3295.9	3323.5	3363.9	3428.3	3503.9	3584.7	3640.0	3647.4	3671.2	3645.5
12.5°	3391.5	3382.4	3421.0	3465.1	3531.4	3610.6	3709.9	3787.2	3798.2	3831.3	3813.0
15°	3537.0	3524.1	3568.2	3625.2	3709.9	3800.1	3904.9	3975.0	3984.1	4024.6	3991.5
17.5°	3706.2	3693.4	3744.8	3805.6	3897.7	4020.9	4142.3	4219.6	4230.7	4256.5	4195.7
20°	3923.4	3906.8	3947.3	4002.5	4100.0	4247.3	4392.6	4503.0	4501.2	4501.2	4401.9
22.5°	4175.5	4149.7	4184.7	4228.8	4320.9	4499.3	4692.6	4823.2	4823.2	4771.7	4608.0
25°	4446.0	4420.2	4458.9	4499.3	4580.3	4782.8	5009.2	5171.0	5178.4	5090.0	4828.8
27.5°	4784.6	4751.5	4780.9	4828.8	4876.6	5082.8	5351.4	5539.1	5542.8	5406.6	5038.6
30°	5436.1	5342.2	5250.2	5198.7	5220.7	5425.0	5712.1	5920.0	5938.4	5750.8	5266.8
32.5°	6628.6	6610.1	6286.2	5863.0	5642.2	5793.1	6115.2	6365.4	6376.4	6135.3	5563.1
35°	8481.7	8459.5	7938.8	7132.8	6413.2	6286.2	6604.6	6900.9	6893.5	6621.2	5947.7
37.5°	10693.6	10673.3	9987.0	8908.6	7743.7	7031.5	7235.8	7546.8	7592.8	7235.8	6444.5
40°	12583.5	12508.1	12073.8	11034.0	9510.4	8268.2	8133.9	8339.9	8387.8	7964.6	7075.7
42.5°	14015.2	13950.9	13730.0	13080.4	11648.7	10097.4	9192.0	9271.1	9324.5	8816.5	7800.8
45°	14756.8	14742.2	14830.4	14769.7	13827.6	12342.4	10704.7	10375.3	10395.4	9760.7	8623.3
47.5°	14861.8	14854.4	15257.4	15827.8	15700.8	14874.6	12646.1	11751.7	11680.0	10826.2	9517.7
50°	14243.4	14228.7	15001.6	16070.8	16952.3	17002.0	14850.7	13303.1	13144.8	11928.4	10450.7
52.5°	12268.8	12265.2	13534.9	15314.4	17392.1	18864.3	17029.6	15007.1	14742.2	13095.1	11437.1
55°	9440.5	9508.5	10964.1	13067.5	16589.7	19760.5	18985.8	16898.9	16492.2	14269.2	12346.1
57.5°	6687.4	6786.8	8225.8	10099.2	14101.7	19230.4	20308.8	18794.3	18356.3	15439.6	13268.1
60°	3592.1	3680.5	5121.4	7357.2	10491.2	17254.0	21006.4	20439.5	20025.4	16551.1	14099.9
62.5°	2140.2	2169.6	2765.9	4749.6	7096.0	13181.6	20710.0	21692.7	21352.3	17484.0	14823.1
65°	1536.6	1542.1	1842.0	2900.2	4308.0	8008.7	18632.3	22292.6	22187.8	18187.1	15358.6
67.5°	1293.7	1290.0	1415.1	1926.7	2935.2	4011.7	14280.2	21444.2	21889.6	18632.3	15662.2
70°	1109.7	1115.2	1262.4	1411.4	2206.4	2270.9	7099.7	18671.0	19620.7	18750.1	15643.9
72.5°	826.3	844.7	980.8	1286.4	1665.4	1562.4	2451.2	13844.1	15561.0	17666.3	14832.3
75°	583.3	592.6	690.1	1082.1	1242.2	1137.2	1251.3	7156.7	9357.6	13544.1	12140.0
77.5°	449.1	465.6	522.6	756.3	1223.7	798.7	765.6	2476.9	3805.6	8181.7	8323.4
80°	242.9	272.3	377.2	546.5	859.4	565.0	379.0	986.4	1290.0	3825.8	3209.4
82.5°	125.2	139.8	263.1	393.8	489.5	493.2	187.7	410.4	531.9	1181.4	439.8
85°	49.7	60.7	176.7	217.2	252.2	242.9	84.7	165.6	191.4	327.6	134.4
87.5°	11.1	18.4	64.4	49.7	47.9	51.6	20.2	38.6	36.8	38.6	23.9
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°	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4
2.5°	3321.6	3314.2	3294.0	3271.9	3246.2	3231.4	3222.3	3220.4	3207.5	3198.3	3207.5
5°	3376.9	3369.5	3330.8	3284.8	3235.1	3196.5	3159.7	3126.6	3078.7	3069.5	3065.9
7.5°	3487.3	3467.0	3404.4	3341.9	3248.0	3135.8	2999.6	2843.1	2703.3	2661.0	2640.7
10°	3623.4	3595.8	3516.7	3406.3	3198.3	2892.9	2563.4	2258.0	2015.0	1947.0	1921.2
12.5°	3778.0	3754.1	3649.2	3444.9	2990.3	2436.4	1932.2	1553.2	1317.6	1258.7	1242.2
15°	3962.0	3927.1	3781.6	3386.0	2618.7	1851.3	1326.8	1102.3	1017.6	1006.7	995.6
17.5°	4157.1	4100.0	3899.5	3174.4	2118.2	1315.8	1025.0	960.6	923.8	912.8	907.2
20°	4335.6	4262.0	3969.4	2854.2	1582.6	1025.0	918.3	876.0	842.9	829.9	822.6
22.5°	4514.1	4409.2	3969.4	2418.1	1186.9	909.1	842.9	804.2	765.6	749.0	739.7
25°	4699.9	4560.1	3899.5	1932.2	955.1	833.6	771.1	728.8	695.6	675.4	668.0
27.5°	4880.3	4687.1	3739.4	1472.2	850.2	767.4	704.8	664.3	633.0	618.3	618.3
30°	5051.4	4812.2	3514.8	1117.0	782.1	702.9	644.1	609.2	577.8	563.1	565.0
32.5°	5283.4	4970.4	3275.6	916.5	723.2	642.3	588.9	555.8	528.2	517.1	517.1
35°	5605.3	5204.2	3069.5	899.8	673.5	592.6	539.2	507.9	480.3	471.1	471.1
37.5°	6061.7	5581.4	2960.9	1010.2	633.0	548.4	498.7	465.6	439.8	432.4	430.6
40°	6624.9	6093.0	3019.9	1120.7	605.5	509.7	461.9	428.8	406.7	397.5	395.6
42.5°	7292.9	6724.2	3345.6	1205.4	587.0	476.6	426.9	390.1	375.5	371.8	371.8
45°	8060.2	7418.0	3844.3	1295.5	557.6	445.4	392.0	364.4	353.3	351.5	349.6
47.5°	8932.5	8179.8	4422.1	1407.7	528.2	415.8	364.4	345.9	336.7	333.1	333.1
50°	9797.5	8947.2	5016.5	1470.4	504.2	388.3	342.2	327.6	320.2	318.4	318.4
52.5°	10702.8	9736.7	5496.8	1411.4	484.0	366.2	323.9	312.8	305.4	303.6	303.6
55°	11565.9	10375.3	5579.6	1198.0	443.5	344.1	303.6	298.1	288.9	288.9	287.1
57.5°	12309.3	10695.5	4994.4	879.7	403.0	311.0	283.4	277.9	270.5	268.7	266.8
60°	12992.1	10603.4	3855.3	592.6	358.9	277.9	257.6	254.0	246.6	237.4	235.5
62.5°	13376.7	10198.5	2637.0	386.4	314.7	242.9	228.2	226.3	209.8	191.4	187.7
65°	13522.1	9366.8	1645.1	281.6	263.1	208.0	196.9	193.2	169.3	149.0	147.2
67.5°	13395.1	7997.7	829.9	222.6	208.0	173.0	162.0	162.0	145.3	127.0	125.2
70°	12887.2	5995.5	349.6	178.5	160.1	132.5	132.5	139.8	123.3	103.0	101.2
72.5°	11784.8	4033.8	185.8	136.2	119.6	93.9	108.5	114.1	97.6	77.3	77.3
75°	9368.6	2460.4	128.8	101.2	75.4	66.2	82.8	86.5	66.2	51.6	49.7
77.5°	6407.7	1413.3	86.5	64.4	47.9	38.6	57.1	53.4	35.0	23.9	25.7
80°	2813.7	588.9	49.7	29.4	18.4	14.8	20.2	14.8	11.1	7.4	7.4
82.5°	329.4	138.1	18.4	11.1	7.4	3.7	1.8	0.0	0.0	0.0	0.0
85°	68.1	16.6	9.2	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	3.7	1.8	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)