

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: P885138

Luminaire Tested: **NAV-SB6B-740-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885138  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6B-740-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

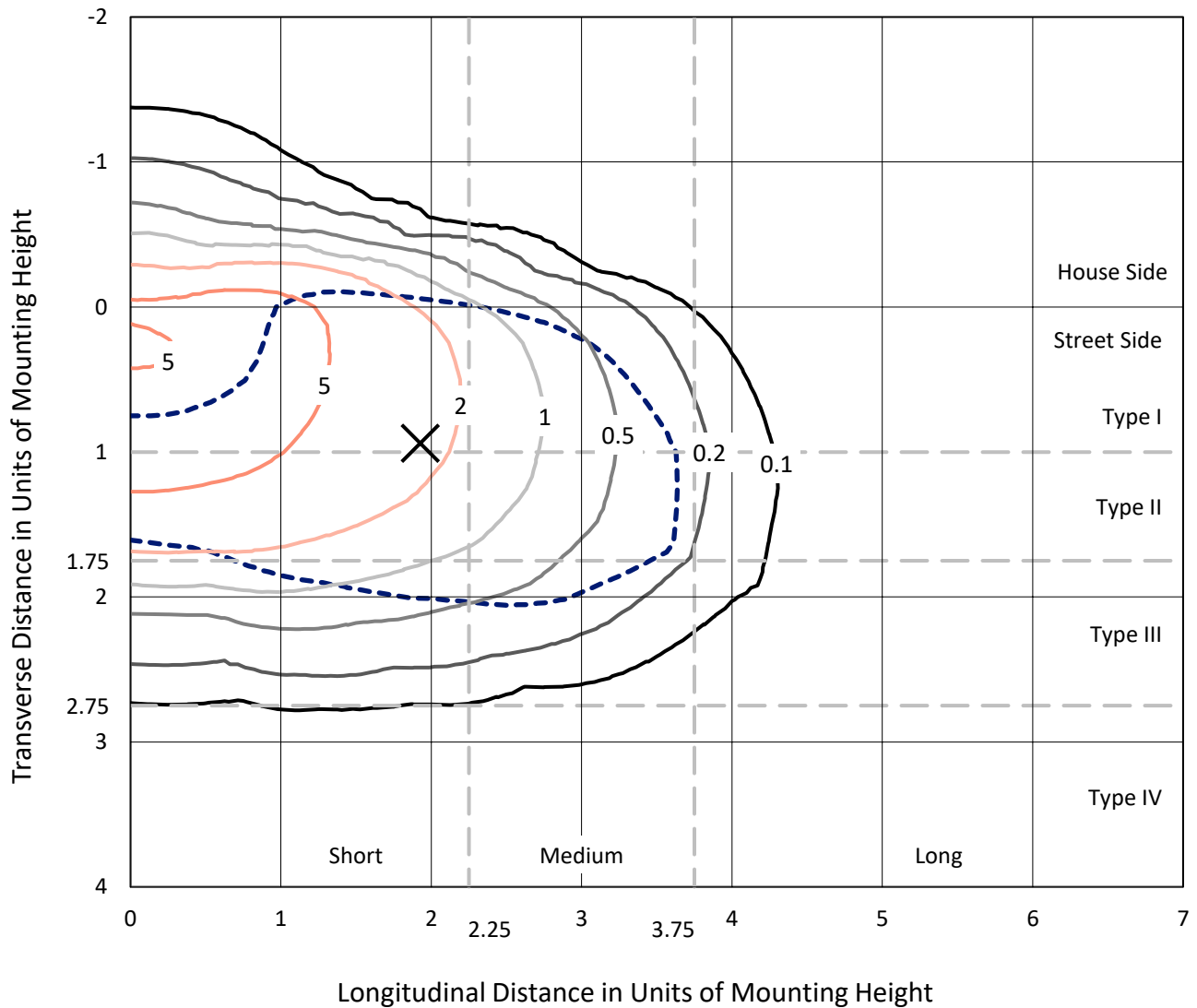
Lumens per Lamp: N/A  
Luminaire Lumens: 28900 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 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

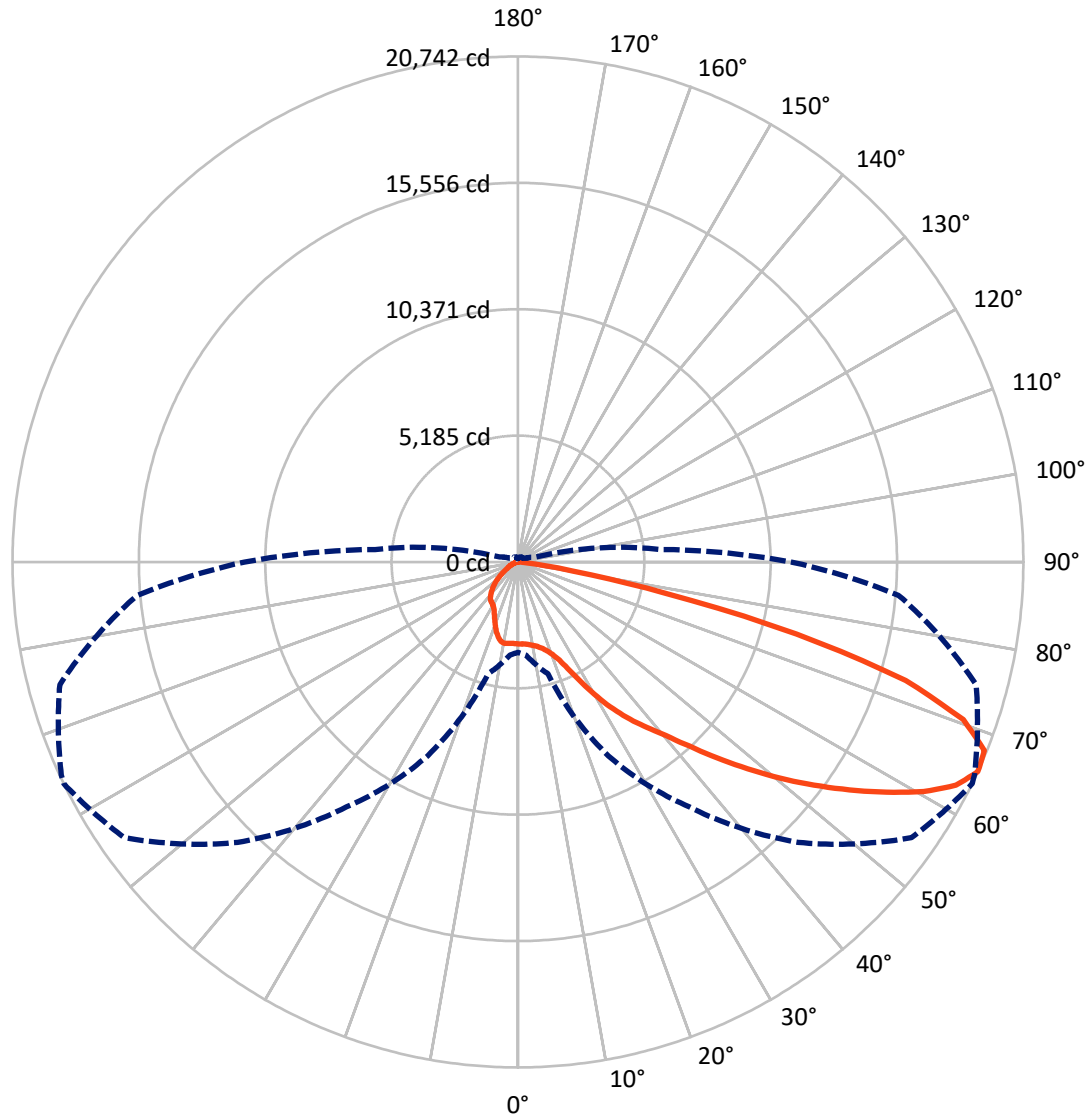
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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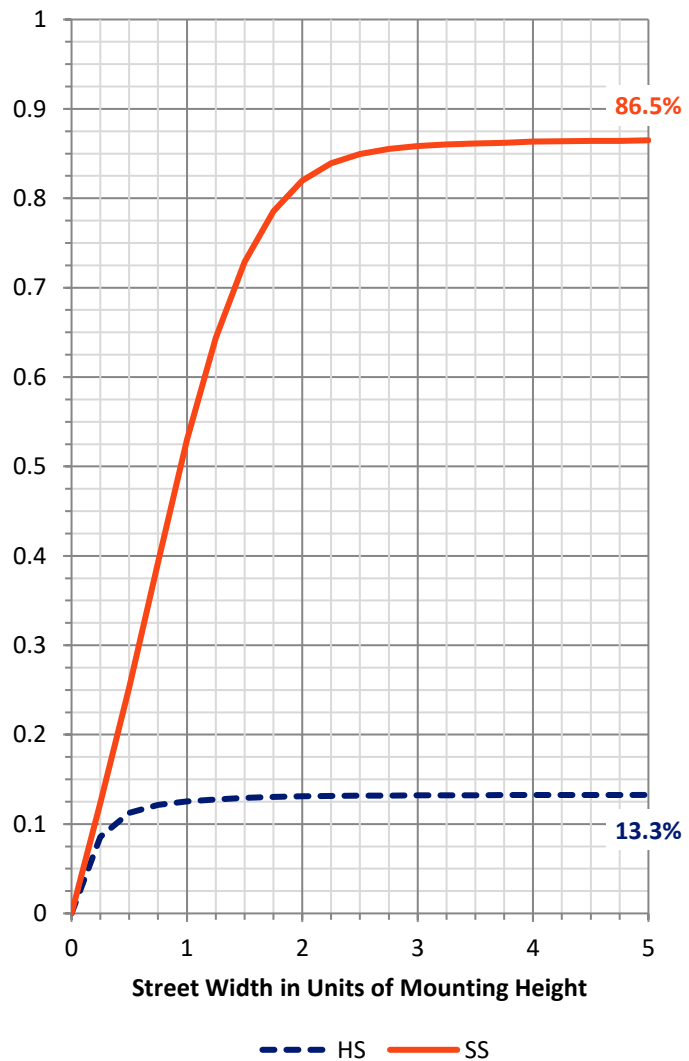
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3864.8	0.0	3864.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	25035.2	0.0	25035.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	28900.0	0.0	28900.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.1	1.1
10°-20°	841.1	2.9
20°-30°	1593.9	5.5
30°-40°	3225.3	11.2
40°-50°	5494.3	19.0
50°-60°	7471.8	25.9
60°-70°	7016.4	24.3
70°-80°	2811.1	9.7
80°-90°	136.2	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°	28900.0	100.0
0°-180°	28900.0	100.0

**Coefficient of Utilization**



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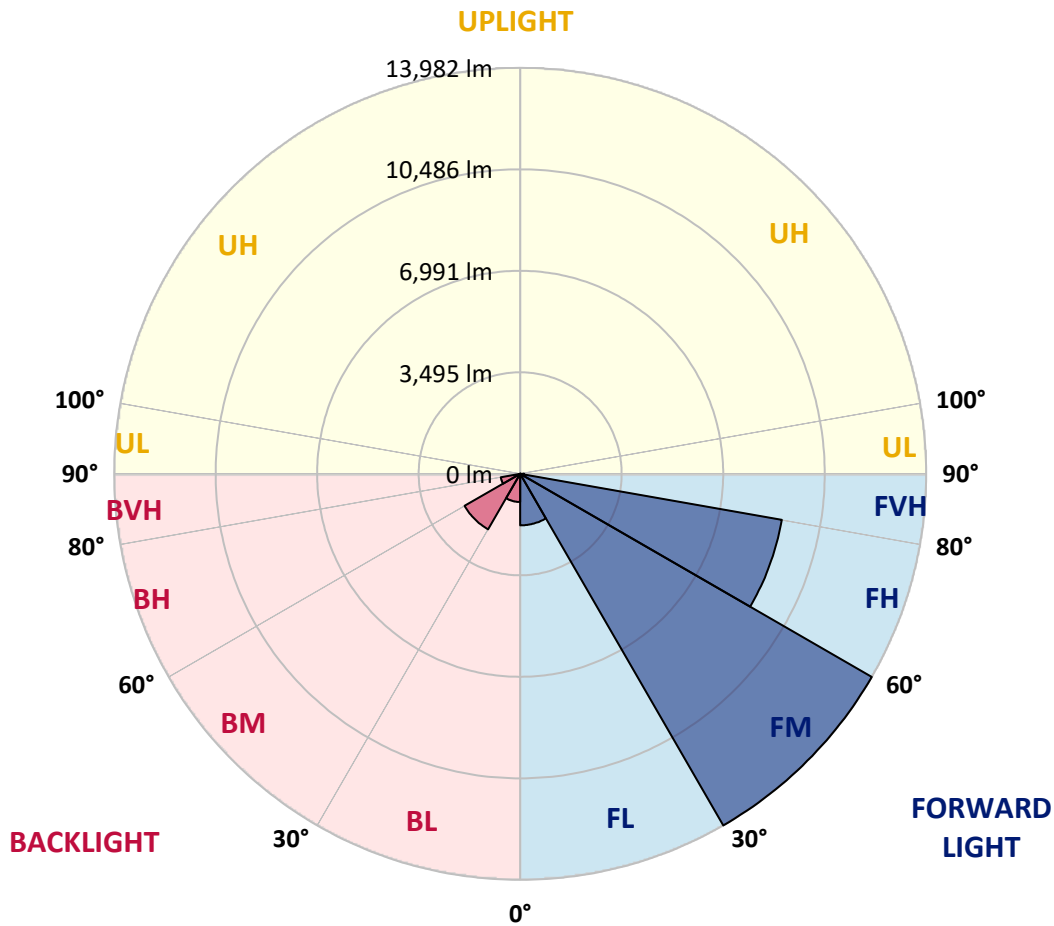
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1774.8	6.1			
FM (30°-60°)	13981.8	48.4			
FH (60°-80°)	9149.1	31.7			G4/12000
FVH (80°-90°)	129.5	0.4			G2/225
BL (0°-30°)	970.3	3.4	B2/1000		
BM (30°-60°)	2209.5	7.6	B2/2500		
BH (60°-80°)	678.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3361.4	3361.4	3361.4	3361.4	3361.4	3361.4	3361.4	3361.4	3361.4	3361.4	3361.4
2.5°	3349.7	3373.0	3367.2	3361.4	3359.4	3363.3	3365.2	3363.3	3363.3	3363.3	3365.2
5°	3285.8	3305.2	3305.2	3318.7	3338.1	3361.4	3378.8	3382.7	3386.6	3392.4	3390.4
7.5°	3163.8	3179.3	3190.9	3235.4	3283.9	3345.9	3398.2	3425.3	3429.2	3450.5	3458.2
10°	3080.4	3099.8	3119.2	3165.7	3235.4	3328.4	3417.6	3483.4	3493.1	3543.5	3566.7
12.5°	3076.6	3095.9	3121.1	3171.5	3252.9	3351.7	3460.2	3555.1	3572.5	3646.2	3694.6
15°	3117.3	3140.5	3163.8	3225.8	3312.9	3433.1	3549.3	3667.5	3684.9	3789.5	3841.8
17.5°	3200.6	3231.6	3249.0	3311.0	3404.0	3537.7	3690.7	3826.3	3841.8	3963.9	4029.8
20°	3365.2	3402.1	3407.9	3458.2	3549.3	3692.7	3874.8	4043.3	4062.7	4202.2	4275.8
22.5°	3706.2	3758.5	3712.0	3737.2	3818.6	3962.0	4159.6	4372.7	4399.8	4558.7	4624.5
25°	4306.8	4380.4	4260.3	4217.7	4252.6	4401.7	4649.7	4919.0	4950.0	5077.9	5110.8
27.5°	5486.7	5391.8	5209.6	5031.4	4926.8	5012.0	5291.0	5624.2	5663.0	5787.0	5748.2
30°	6782.8	6699.5	6453.4	6058.2	5810.2	5796.7	6054.3	6426.3	6470.9	6589.1	6470.9
32.5°	8080.8	8001.4	7734.1	7247.8	6817.7	6604.6	6782.8	7195.5	7218.7	7294.3	7119.9
35°	9357.6	9276.2	9008.9	8511.0	7982.0	7497.7	7462.8	7927.8	7935.5	8015.0	7755.4
37.5°	10642.1	10574.3	10289.5	9801.3	9280.1	8611.7	8288.2	8621.4	8631.1	8708.6	8439.3
40°	11558.5	11587.5	11391.8	11014.1	10566.5	9836.1	9214.2	9359.5	9301.4	9431.2	9270.4
42.5°	12345.0	12403.2	12232.7	12042.8	11783.2	11140.0	10361.2	10336.0	10243.0	10312.7	10146.1
45°	13025.1	13073.5	12920.4	12875.9	12870.1	12418.7	11614.6	11463.5	11333.7	11320.2	11120.6
47.5°	13275.0	13368.0	13433.9	13583.0	13873.6	13683.8	12910.8	12676.3	12531.0	12424.5	12108.7
50°	13369.9	13468.7	13693.5	14127.4	14815.2	14896.6	14201.1	13937.6	13759.3	13565.6	13100.6
52.5°	13242.1	13418.4	13720.6	14451.0	15448.7	15869.2	15439.1	15208.5	15005.1	14689.3	13999.6
55°	12488.4	12664.7	13282.7	14447.1	15764.5	16551.1	16609.2	16506.6	16277.9	15780.0	14726.1
57.5°	10899.8	11161.3	12139.7	13955.0	15758.7	17138.1	17756.2	17829.8	17574.1	16861.1	15297.6
60°	8698.9	9053.4	10246.9	12864.3	15272.4	17455.9	18761.7	19129.8	18858.5	17926.7	15760.7
62.5°	6069.8	6480.6	7610.1	11155.5	14160.4	17227.3	19495.9	20176.0	19970.6	18879.9	15938.9
65°	3702.4	3834.1	4744.7	8778.3	12269.5	16270.2	19722.6	20741.7	20673.9	19463.0	15675.4
67.5°	2466.3	2576.7	2838.3	6019.5	9524.2	14358.0	19180.2	20642.9	20662.3	19368.1	14710.6
70°	1486.0	1580.9	1751.4	3500.9	6172.5	11364.7	17500.4	19383.6	19495.9	18099.1	12881.7
72.5°	612.2	676.1	831.1	1586.7	3196.7	7212.9	13935.6	16642.2	16903.7	15218.2	9886.5
75°	346.8	379.7	488.2	796.3	1387.2	3361.4	8441.2	11814.2	12199.7	10489.0	5947.8
77.5°	230.5	246.0	315.8	515.3	780.8	1146.9	3607.4	6155.1	6891.3	5728.9	2574.8
80°	155.0	168.6	217.0	344.9	507.6	492.1	1148.9	2280.3	2805.3	1968.4	627.7
82.5°	104.6	106.6	155.0	226.7	321.6	238.3	339.0	709.1	891.2	569.6	238.3
85°	60.1	58.1	114.3	131.7	143.4	98.8	102.7	213.1	279.0	240.2	135.6
87.5°	7.7	11.6	44.6	34.9	19.4	21.3	21.3	36.8	54.2	58.1	29.1
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°	3361.4	3361.4	3361.4	3361.4	3361.4	3361.4	3361.4	3361.4	3361.4	3361.4	3361.4
2.5°	3365.2	3363.3	3357.5	3351.7	3338.1	3330.4	3334.2	3330.4	3328.4	3330.4	3338.1
5°	3390.4	3384.6	3369.1	3349.7	3322.6	3289.7	3268.4	3237.4	3208.3	3190.9	3194.8
7.5°	3458.2	3452.4	3431.1	3376.9	3289.7	3152.1	3026.2	2915.8	2832.5	2784.0	2786.0
10°	3566.7	3557.0	3524.1	3404.0	3175.4	2875.1	2625.2	2417.9	2282.2	2218.3	2212.5
12.5°	3694.6	3683.0	3624.9	3378.8	2958.4	2489.5	2144.7	1914.1	1788.2	1732.0	1726.2
15°	3845.7	3830.2	3715.9	3258.7	2642.6	2063.3	1747.5	1575.1	1493.7	1443.4	1445.3
17.5°	4033.6	4006.5	3783.7	3078.5	2299.7	1737.8	1503.4	1373.6	1301.9	1253.5	1249.6
20°	4277.8	4233.2	3838.0	2863.5	1983.9	1532.5	1338.7	1230.2	1176.0	1133.4	1125.6
22.5°	4618.7	4554.8	3903.8	2631.0	1761.1	1391.0	1216.7	1137.2	1092.7	1044.3	1036.5
25°	5041.1	4965.5	3985.2	2415.9	1608.0	1269.0	1127.6	1061.7	1009.4	953.2	947.4
27.5°	5632.0	5496.4	4082.1	2239.6	1476.3	1164.4	1046.2	972.6	912.5	866.0	856.3
30°	6290.7	6067.9	4167.3	2133.1	1356.2	1067.5	939.6	866.0	809.8	776.9	771.1
32.5°	6914.5	6612.3	4223.5	2086.6	1247.7	957.1	823.4	744.0	701.3	691.6	697.5
35°	7503.5	7104.4	4217.7	2042.0	1150.8	846.6	709.1	627.7	594.8	600.6	600.6
37.5°	8181.6	7629.4	4177.0	1972.3	1071.4	745.9	610.3	538.6	509.5	511.5	519.2
40°	8970.1	8235.8	4151.8	1840.5	984.2	652.9	528.9	470.8	449.5	441.7	439.8
42.5°	9810.9	8822.9	4155.7	1691.3	875.7	569.6	472.7	424.3	404.9	399.1	397.2
45°	10655.6	9382.8	4161.5	1536.3	761.4	505.7	432.0	391.4	379.7	372.0	372.0
47.5°	11450.0	9859.4	4053.0	1369.7	649.0	457.2	399.1	372.0	362.3	352.6	352.6
50°	12190.1	10177.1	3791.5	1176.0	559.9	418.5	373.9	354.5	344.9	335.2	335.2
52.5°	12765.5	10227.5	3359.4	976.4	497.9	389.4	358.4	341.0	329.4	319.7	317.7
55°	13021.2	9911.7	2745.3	790.5	449.5	364.2	342.9	325.5	311.9	302.2	300.3
57.5°	12955.3	9247.2	2140.8	635.5	403.0	339.0	323.5	311.9	296.4	280.9	279.0
60°	12631.8	8357.9	1613.8	528.9	360.4	311.9	302.2	292.5	271.2	248.0	244.1
62.5°	12071.9	7240.0	1150.8	437.8	313.9	280.9	277.0	269.3	238.3	195.7	191.8
65°	11215.5	5881.9	775.0	364.2	269.3	246.0	248.0	234.4	193.7	145.3	141.4
67.5°	9964.0	4301.0	496.0	298.4	224.7	205.4	207.3	199.6	164.7	124.0	118.2
70°	8369.5	2848.0	323.5	226.7	180.2	158.9	170.5	172.4	139.5	100.7	96.9
72.5°	6135.7	1681.7	226.7	168.6	131.7	110.4	139.5	143.4	112.4	75.6	71.7
75°	3497.0	798.2	170.5	122.1	81.4	77.5	108.5	108.5	77.5	50.4	46.5
77.5°	1468.5	333.2	120.1	79.4	46.5	44.6	73.6	67.8	38.7	23.2	23.2
80°	424.3	149.2	63.9	38.7	19.4	17.4	29.1	21.3	9.7	3.9	3.9
82.5°	166.6	65.9	25.2	15.5	7.7	7.7	3.9	0.0	0.0	0.0	0.0
85°	98.8	27.1	11.6	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.2	5.8	3.9	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)