

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: P964537

Luminaire Tested: **NAV-SB3C-730-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3C-730-U-T2R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

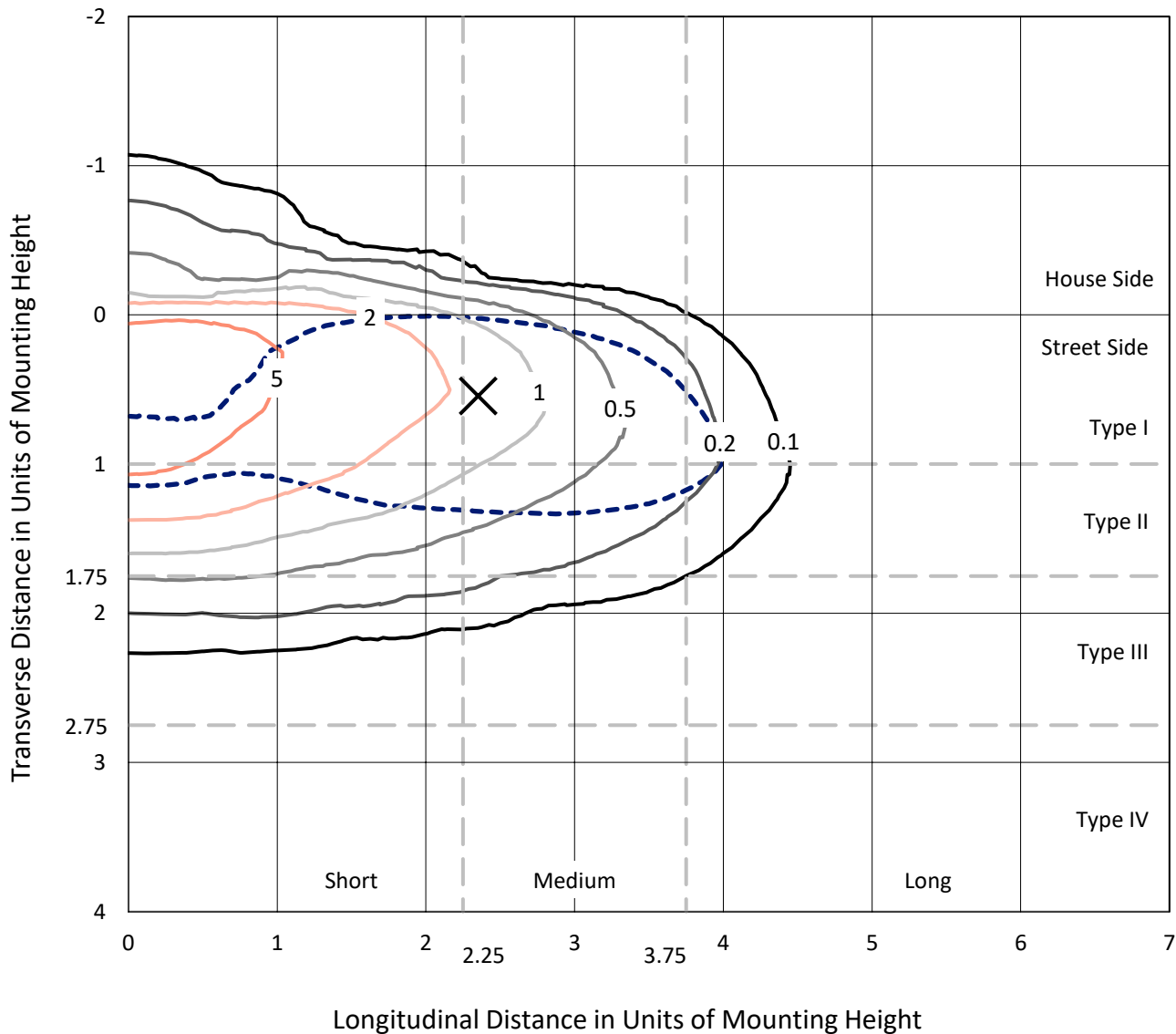
Lumens per Lamp: N/A  
Luminaire Lumens: 19500.6 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

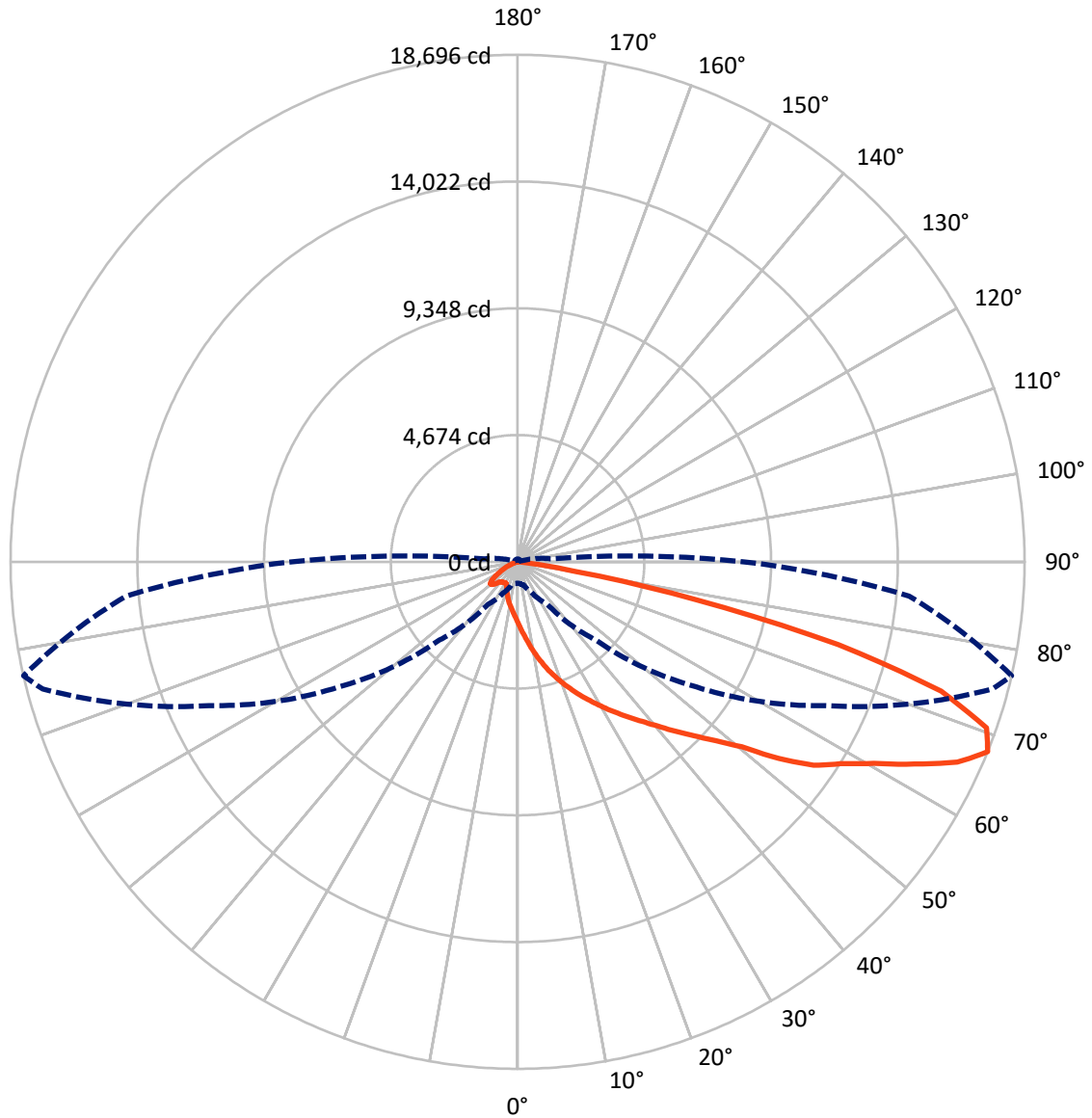
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	1434.7	0.0	1434.7
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	18066.0	0.0	18066.0
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	19500.6	0.0	19500.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.5	1.2
10°-20°	803.7	4.1
20°-30°	1551.0	8.0
30°-40°	2692.6	13.8
40°-50°	3909.6	20.0
50°-60°	4489.6	23.0
60°-70°	3897.8	20.0
70°-80°	1835.9	9.4
80°-90°	90.8	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°	19500.6	100.0
0°-180°	19500.6	100.0

**Coefficient of Utilization**

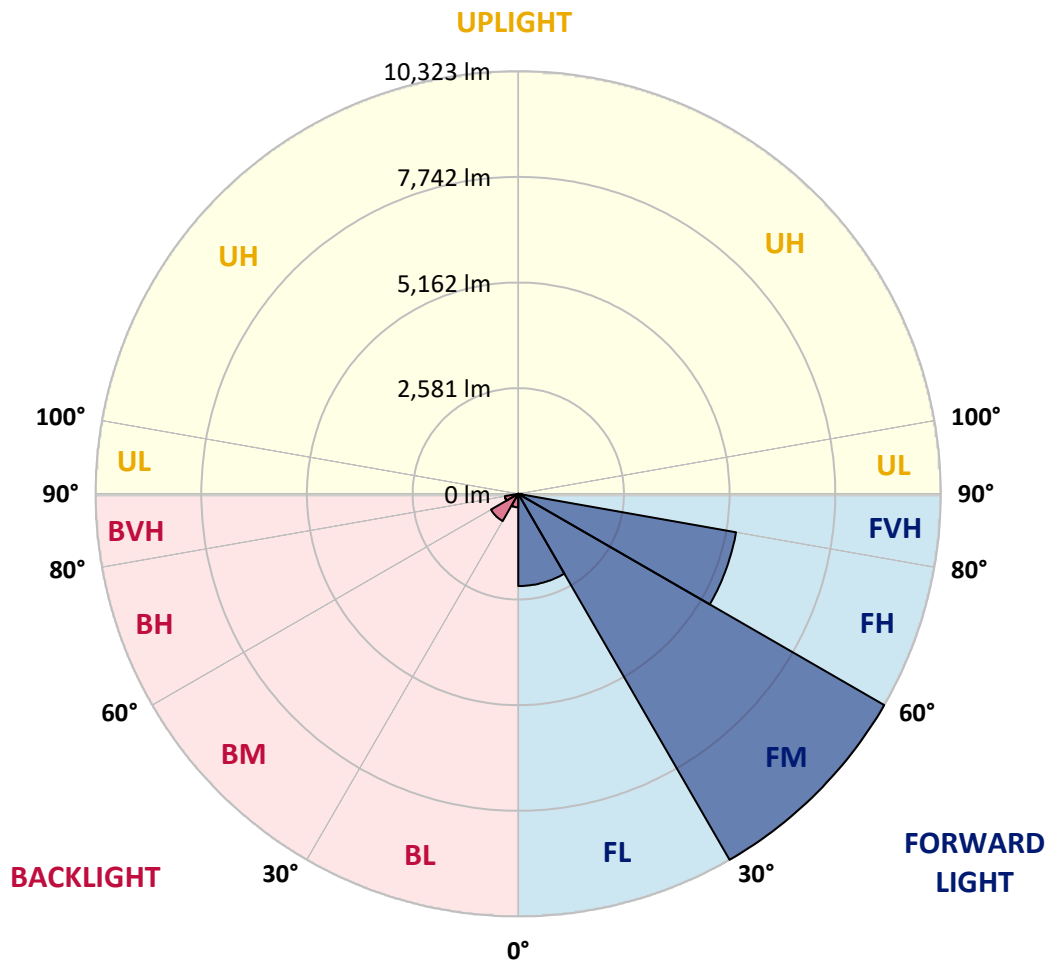


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2252.1	11.5			
FM (30°-60°)	10323.1	52.9			
FH (60°-80°)	5401.6	27.7			G3/7500
FVH (80°-90°)	89.1	0.5			G1/100
BL (0°-30°)	332.1	1.7	B1/500		
BM (30°-60°)	768.7	3.9	B1/1000		
BH (60°-80°)	332.1	1.7	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7
2.5°	3113.3	3132.7	3104.8	3051.5	2971.7	2919.6	2792.4	2672.6	2539.3	2496.9	2363.8
5°	3795.1	3812.1	3780.5	3722.4	3615.9	3514.1	3347.0	3096.3	2836.0	2752.4	2516.4
7.5°	4300.1	4309.7	4297.6	4244.3	4142.6	4027.5	3841.1	3544.4	3158.1	3066.1	2704.1
10°	4663.3	4694.8	4691.1	4670.6	4602.8	4509.5	4310.9	3973.1	3519.0	3400.3	2915.9
12.5°	4904.3	4939.4	4960.0	5006.0	5002.4	4943.1	4768.7	4411.4	3878.6	3739.4	3154.5
15°	4974.5	5012.0	5090.8	5197.4	5291.8	5322.1	5199.7	4841.3	4274.6	4096.6	3399.1
17.5°	4934.6	4992.7	5087.2	5255.5	5462.5	5599.4	5586.0	5256.7	4634.2	4430.8	3638.9
20°	5023.0	5078.7	5152.6	5294.2	5535.2	5783.5	5882.7	5653.9	4991.4	4778.3	3890.7
22.5°	5512.1	5502.5	5509.8	5532.7	5676.9	5922.7	6127.3	6014.7	5345.1	5127.2	4157.2
25°	6287.1	6243.6	6169.7	6045.0	6008.7	6127.3	6340.4	6334.4	5718.1	5484.4	4429.6
27.5°	7176.0	7168.7	6995.6	6695.3	6525.8	6479.7	6581.4	6645.6	6087.4	5837.9	4703.3
30°	8027.3	8046.7	7813.0	7478.7	7167.5	6987.1	6895.1	6941.1	6462.7	6219.4	4985.4
32.5°	8768.4	8789.0	8534.7	8143.5	7758.4	7540.5	7346.8	7232.9	6872.1	6606.8	5295.5
35°	9394.4	9415.0	9123.2	8690.9	8280.4	8083.0	7863.8	7552.6	7283.8	7036.7	5640.6
37.5°	9953.9	9947.8	9556.7	9120.8	8717.5	8561.3	8446.3	7946.2	7707.6	7469.1	6023.2
40°	10284.4	10310.0	9975.7	9495.0	9103.8	8990.0	8982.7	8434.2	8196.8	7965.6	6442.2
42.5°	10381.4	10426.2	10184.0	9789.2	9434.4	9310.9	9501.0	8962.2	8766.0	8540.7	6915.7
45°	10206.9	10250.6	10140.4	9866.8	9659.6	9579.8	9946.6	9509.4	9373.8	9151.0	7449.7
47.5°	9698.3	9752.9	9779.5	9721.4	9718.9	9800.1	10346.2	10085.9	10095.5	9867.9	8068.5
50°	8713.9	8806.0	9050.5	9256.4	9574.8	9974.5	10734.9	10710.7	10909.3	10713.2	8875.0
52.5°	6924.2	7054.9	7897.7	8460.9	9176.5	9941.8	11162.5	11713.4	12337.0	12050.0	10012.0
55°	5564.2	5564.2	6249.6	7303.1	8399.1	9726.2	11348.9	12364.9	13309.4	13241.6	10812.4
57.5°	4536.1	4590.7	5027.8	5959.0	7274.1	9212.8	11463.9	12774.2	14092.8	14043.2	11594.7
60°	2799.7	2917.1	3743.0	4662.1	5994.1	8298.5	11391.2	13188.3	15043.4	15083.4	12536.8
62.5°	1576.7	1620.2	1988.4	3354.3	4660.9	7069.4	10835.5	13419.6	16259.3	16428.8	13508.0
65°	1088.7	1110.4	1252.1	2087.6	3230.8	5628.5	9749.3	13275.5	17477.5	17820.1	14331.4
67.5°	790.8	801.7	890.0	1275.1	1917.0	4080.8	8046.7	12549.0	18122.9	18695.7	14488.9
70°	607.9	615.2	679.4	837.9	1132.2	2518.7	5843.9	11104.2	17655.4	18339.6	13682.4
72.5°	494.0	501.3	550.9	620.0	750.8	1489.4	3542.0	9017.8	15592.0	16330.7	11648.0
75°	416.6	426.3	471.1	515.9	588.6	956.6	1661.4	6279.9	11725.5	12209.9	8100.0
77.5°	231.2	213.1	382.6	427.4	496.5	605.5	777.5	3695.7	6566.9	6701.3	3594.1
80°	144.1	148.9	303.9	343.9	381.4	305.1	356.0	1422.8	2276.5	2162.8	696.3
82.5°	8.5	19.4	233.7	248.3	261.6	130.8	134.4	483.2	548.6	503.8	123.5
85°	0.0	0.0	106.6	86.0	90.8	37.5	38.7	112.6	73.9	79.9	24.2
87.5°	0.0	0.0	0.0	2.5	0.0	3.6	7.3	9.7	3.6	4.8	8.5
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°	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7	2248.7
2.5°	2279.0	2194.2	2022.2	1853.9	1717.1	1590.0	1499.2	1413.2	1369.6	1367.1	1364.7
5°	2348.0	2170.0	1826.1	1522.1	1277.6	1081.4	954.2	863.4	817.3	801.7	799.2
7.5°	2444.8	2177.3	1654.1	1231.5	943.3	775.0	702.3	673.3	663.6	652.7	650.3
10°	2567.2	2194.2	1500.4	991.8	743.5	658.8	629.7	617.6	610.3	603.0	600.6
12.5°	2704.1	2210.0	1347.8	823.5	653.9	610.3	589.7	575.2	565.5	557.0	554.6
15°	2837.2	2219.6	1189.1	706.0	607.9	572.8	550.9	535.3	521.9	512.2	511.1
17.5°	2969.2	2233.0	1040.2	635.7	570.3	535.3	513.4	494.0	483.2	472.2	471.1
20°	3115.7	2230.5	899.7	586.1	532.8	497.7	474.7	456.5	445.7	433.5	432.3
22.5°	3251.4	2218.4	776.2	543.7	494.0	460.1	434.7	416.6	405.7	396.0	394.7
25°	3407.6	2208.8	673.3	504.9	457.8	423.8	396.0	379.0	367.0	358.4	357.2
27.5°	3557.8	2194.2	598.2	469.9	422.6	389.9	363.3	343.9	333.0	327.0	327.0
30°	3705.5	2190.6	570.3	435.9	391.1	358.4	331.8	313.6	305.1	302.8	301.6
32.5°	3883.5	2200.3	582.5	423.8	362.0	329.3	303.9	290.6	282.2	282.2	282.2
35°	4073.6	2197.8	600.6	434.7	342.7	300.3	281.0	272.4	263.9	263.9	263.9
37.5°	4312.2	2201.5	615.2	452.8	335.4	276.1	265.2	254.3	249.5	249.5	249.5
40°	4668.2	2321.3	607.9	468.6	333.0	259.1	237.4	233.7	230.1	230.1	230.1
42.5°	5104.1	2581.7	617.6	469.9	331.8	247.0	218.0	225.2	216.8	215.6	214.3
45°	5581.2	2866.3	679.4	444.4	330.6	241.0	208.3	216.8	203.5	203.5	203.5
47.5°	6054.7	3148.4	742.3	408.1	327.0	239.7	199.8	195.0	191.4	192.5	192.5
50°	6707.4	3378.5	766.5	358.4	318.5	237.4	184.1	185.3	182.9	185.3	185.3
52.5°	7418.2	3427.0	737.5	302.8	294.3	230.1	173.1	178.0	176.8	179.2	179.2
55°	7861.4	3374.9	609.1	251.8	256.8	201.0	162.3	172.0	172.0	172.0	172.0
57.5°	8319.1	3153.3	432.3	204.7	213.1	164.7	152.6	165.9	164.7	163.5	163.5
60°	8648.5	2794.9	284.5	168.3	169.5	135.6	141.7	156.2	155.0	148.9	148.9
62.5°	8894.3	2398.9	182.9	142.9	129.6	122.3	129.6	141.7	136.8	123.5	121.1
65°	8866.5	1850.3	140.4	122.3	106.6	106.6	112.6	123.5	109.0	87.2	84.8
67.5°	8349.4	1252.1	116.2	102.9	89.6	88.4	93.3	102.9	93.3	73.9	71.4
70°	7425.5	818.6	93.3	79.9	71.4	65.4	75.0	88.4	78.7	59.3	56.9
72.5°	6026.8	498.9	70.2	58.1	52.1	42.3	59.3	72.7	62.9	43.6	41.2
75°	3899.2	254.3	48.5	37.5	27.9	25.4	43.6	54.5	43.6	26.6	23.0
77.5°	1491.9	106.6	26.6	16.9	14.6	12.1	24.2	32.7	18.1	6.0	4.8
80°	287.0	44.8	13.3	8.5	7.3	4.8	3.6	2.5	0.0	0.0	0.0
82.5°	49.6	14.6	4.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	0.0	0.0	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)