

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: P969745

Luminaire Tested: **NAV-SB6A-722-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969745  
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-SB6A-722-U-T2R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

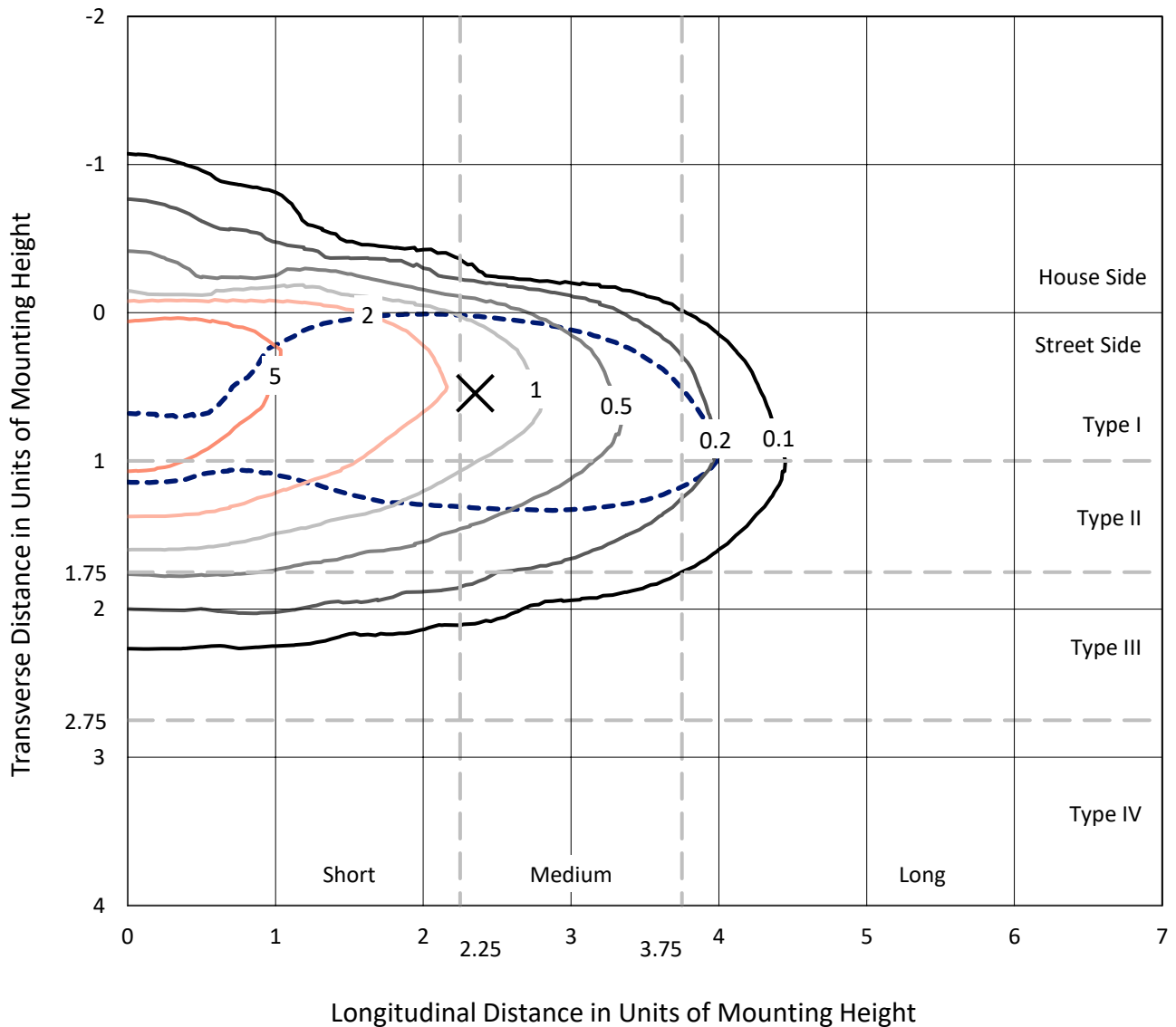
Lumens per Lamp: N/A  
Luminaire Lumens: 19501.6 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

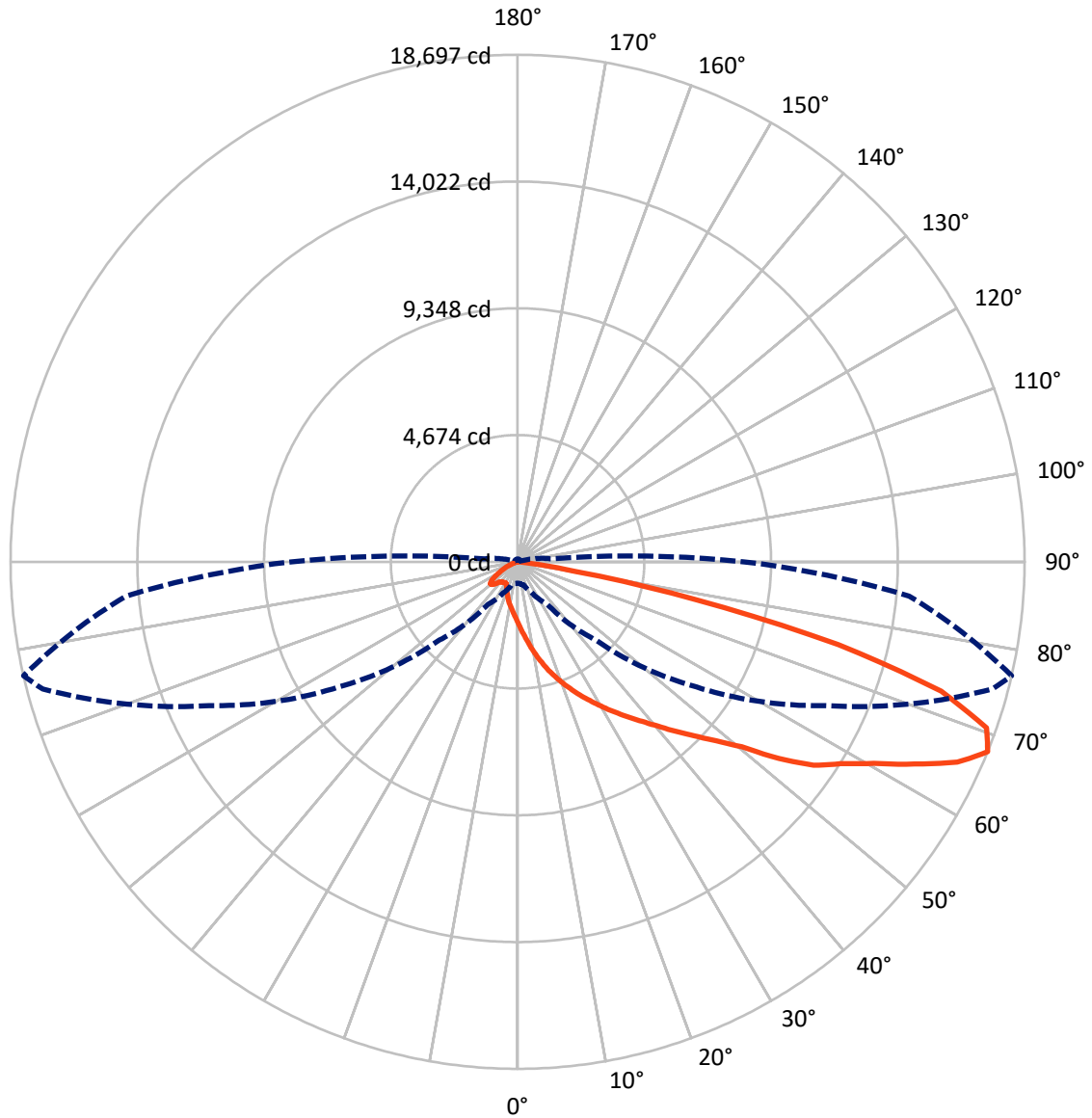
✕ Max cd  
 - - - 1/2 Max cd



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	18066.9	0.0	18066.9
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	19501.6	0.0	19501.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.5	1.2
10°-20°	803.8	4.1
20°-30°	1551.1	8.0
30°-40°	2692.8	13.8
40°-50°	3909.8	20.0
50°-60°	4489.9	23.0
60°-70°	3898.0	20.0
70°-80°	1836.0	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°	19501.6	100.0
0°-180°	19501.6	100.0

**Coefficient of Utilization**

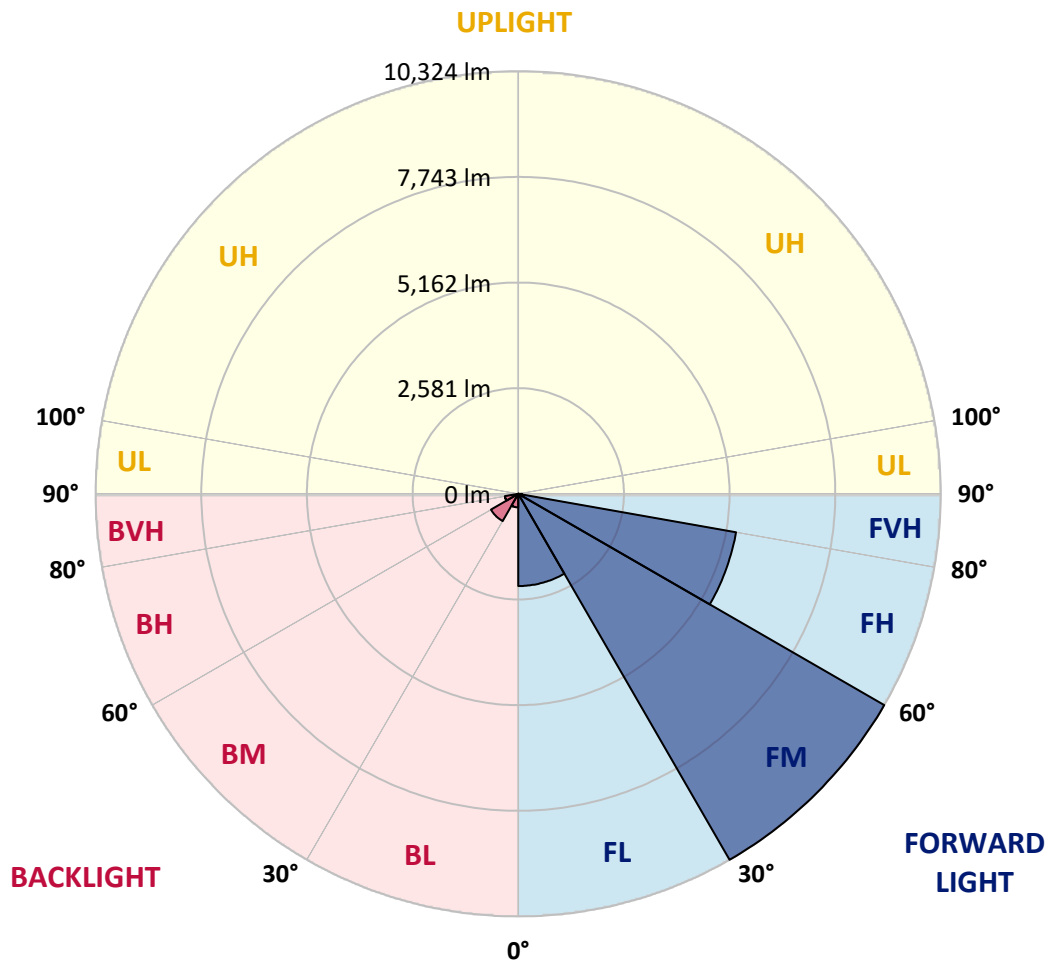


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2252.2	11.5			
FM (30°-60°)	10323.6	52.9			
FH (60°-80°)	5401.9	27.7			G3/7500
FVH (80°-90°)	89.1	0.5			G1/100
BL (0°-30°)	332.2	1.7	B1/500		
BM (30°-60°)	768.8	3.9	B1/1000		
BH (60°-80°)	332.2	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°	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8
2.5°	3113.4	3132.8	3105.0	3051.7	2971.8	2919.7	2792.6	2672.7	2539.4	2497.1	2363.9
5°	3795.3	3812.2	3780.7	3722.6	3616.0	3514.3	3347.2	3096.5	2836.2	2752.6	2516.5
7.5°	4300.3	4309.9	4297.8	4244.5	4142.8	4027.7	3841.3	3544.6	3158.3	3066.3	2704.2
10°	4663.5	4695.0	4691.4	4670.8	4603.0	4509.8	4311.2	3973.3	3519.1	3400.4	2916.1
12.5°	4904.5	4939.7	4960.3	5006.3	5002.6	4943.3	4768.9	4411.7	3878.8	3739.6	3154.6
15°	4974.8	5012.4	5091.1	5197.6	5292.1	5322.3	5200.0	4841.6	4274.9	4096.8	3399.3
17.5°	4934.9	4993.0	5087.4	5255.8	5462.8	5599.7	5586.4	5256.9	4634.5	4431.1	3639.1
20°	5023.2	5079.0	5152.8	5294.5	5535.5	5783.8	5883.0	5654.2	4991.8	4778.7	3890.9
22.5°	5512.4	5502.8	5510.1	5533.1	5677.2	5923.0	6127.7	6015.0	5345.4	5127.4	4157.4
25°	6287.6	6243.9	6170.1	6045.3	6009.0	6127.7	6340.8	6334.7	5718.4	5484.6	4429.8
27.5°	7176.4	7169.2	6995.9	6695.6	6526.1	6480.0	6581.8	6646.0	6087.7	5838.2	4703.5
30°	8027.7	8047.1	7813.4	7479.1	7167.9	6987.4	6895.5	6941.4	6463.1	6219.7	4985.7
32.5°	8768.9	8789.5	8535.2	8143.9	7758.8	7540.9	7347.1	7233.3	6872.4	6607.3	5295.7
35°	9394.9	9415.5	9123.6	8691.4	8280.8	8083.5	7864.2	7553.0	7284.2	7037.1	5640.9
37.5°	9954.4	9948.3	9557.2	9121.3	8718.0	8561.7	8446.7	7946.6	7708.0	7469.5	6023.5
40°	10285.1	10310.5	9976.2	9495.5	9104.3	8990.5	8983.2	8434.6	8197.2	7966.0	6442.5
42.5°	10381.9	10426.7	10184.5	9789.7	9434.9	9311.4	9501.5	8962.6	8766.4	8541.2	6916.0
45°	10207.6	10251.1	10140.9	9867.3	9660.1	9580.3	9947.1	9509.9	9374.3	9151.5	7450.1
47.5°	9698.9	9753.4	9780.0	9721.9	9719.5	9800.6	10346.8	10086.4	10096.1	9868.4	8068.9
50°	8714.3	8806.4	9051.1	9256.9	9575.3	9975.0	10735.5	10711.2	10909.9	10713.7	8875.4
52.5°	6924.5	7055.3	7898.1	8461.3	9176.9	9942.3	11163.0	11714.0	12337.6	12050.6	10012.5
55°	5564.5	5564.5	6249.9	7303.5	8399.5	9726.7	11349.5	12365.5	13310.1	13242.3	10813.0
57.5°	4536.4	4590.9	5028.0	5959.3	7274.5	9213.3	11464.5	12774.9	14093.6	14043.9	11595.3
60°	2799.8	2917.3	3743.2	4662.3	5994.4	8299.0	11391.8	13189.0	15044.2	15084.2	12537.5
62.5°	1576.8	1620.3	1988.5	3354.5	4661.2	7069.8	10836.0	13420.3	16260.1	16429.6	13508.7
65°	1088.7	1110.5	1252.1	2087.7	3230.9	5628.7	9749.8	13276.2	17478.4	17821.1	14332.2
67.5°	790.8	801.7	890.1	1275.2	1917.1	4081.0	8047.1	12549.6	18123.8	18696.6	14489.6
70°	607.9	615.2	679.4	838.0	1132.3	2518.8	5844.2	11104.8	17656.3	18340.6	13683.1
72.5°	494.0	501.3	551.0	620.0	750.8	1489.5	3542.2	9018.4	15592.8	16331.5	11648.6
75°	416.6	426.3	471.1	515.9	588.6	956.7	1661.5	6280.3	11726.1	12210.5	8100.4
77.5°	231.3	213.1	382.6	427.5	496.5	605.5	777.5	3695.9	6567.3	6701.7	3594.3
80°	144.1	148.9	303.9	343.9	381.5	305.1	356.1	1422.9	2276.7	2162.9	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°	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8	2248.8
2.5°	2279.1	2194.3	2022.3	1854.0	1717.2	1590.1	1499.3	1413.3	1369.6	1367.2	1364.8
5°	2348.2	2170.1	1826.1	1522.2	1277.6	1081.4	954.3	863.5	817.4	801.7	799.3
7.5°	2445.0	2177.4	1654.2	1231.5	943.4	775.0	702.3	673.3	663.6	652.7	650.3
10°	2567.3	2194.3	1500.4	991.8	743.5	658.8	629.8	617.6	610.4	603.1	600.6
12.5°	2704.2	2210.1	1347.9	823.5	653.9	610.4	589.8	575.2	565.5	557.1	554.6
15°	2837.4	2219.7	1189.2	706.0	607.9	572.8	551.0	535.3	521.9	512.3	511.1
17.5°	2969.3	2233.1	1040.3	635.8	570.4	535.3	513.4	494.0	483.2	472.3	471.1
20°	3115.9	2230.7	899.7	586.1	532.8	497.7	474.7	456.5	445.7	433.6	432.3
22.5°	3251.5	2218.5	776.2	543.8	494.0	460.2	434.7	416.6	405.7	396.0	394.8
25°	3407.7	2208.9	673.3	505.0	457.8	423.8	396.0	379.0	367.0	358.4	357.2
27.5°	3557.9	2194.3	598.2	469.9	422.6	389.9	363.3	343.9	333.0	327.0	327.0
30°	3705.7	2190.7	570.4	435.9	391.1	358.4	331.8	313.6	305.1	302.8	301.6
32.5°	3883.7	2200.4	582.5	423.8	362.1	329.4	303.9	290.7	282.2	282.2	282.2
35°	4073.8	2198.0	600.6	434.7	342.8	300.3	281.0	272.4	264.0	264.0	264.0
37.5°	4312.4	2201.6	615.2	452.9	335.5	276.1	265.2	254.3	249.5	249.5	249.5
40°	4668.4	2321.5	607.9	468.6	333.0	259.1	237.4	233.7	230.1	230.1	230.1
42.5°	5104.4	2581.9	617.6	469.9	331.8	247.0	218.0	225.3	216.8	215.6	214.3
45°	5581.5	2866.4	679.4	444.4	330.6	241.0	208.3	216.8	203.5	203.5	203.5
47.5°	6055.0	3148.6	742.3	408.2	327.0	239.7	199.8	195.0	191.4	192.6	192.6
50°	6707.7	3378.7	766.6	358.4	318.5	237.4	184.1	185.3	182.9	185.3	185.3
52.5°	7418.5	3427.1	737.5	302.8	294.3	230.1	173.1	178.0	176.8	179.3	179.3
55°	7861.9	3375.0	609.2	251.8	256.8	201.0	162.3	172.0	172.0	172.0	172.0
57.5°	8319.6	3153.4	432.3	204.7	213.1	164.7	152.6	165.9	164.7	163.5	163.5
60°	8648.9	2795.0	284.5	168.3	169.5	135.6	141.7	156.2	155.0	148.9	148.9
62.5°	8894.7	2399.0	182.9	142.9	129.6	122.3	129.6	141.7	136.8	123.5	121.1
65°	8867.0	1850.4	140.4	122.3	106.6	106.6	112.6	123.5	109.0	87.2	84.8
67.5°	8349.9	1252.1	116.2	102.9	89.6	88.4	93.3	102.9	93.3	73.9	71.4
70°	7425.8	818.7	93.3	79.9	71.4	65.4	75.1	88.4	78.7	59.3	56.9
72.5°	6027.1	499.0	70.2	58.1	52.1	42.4	59.3	72.7	62.9	43.6	41.2
75°	3899.4	254.3	48.5	37.5	27.9	25.4	43.6	54.5	43.6	26.6	23.0
77.5°	1492.0	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)