

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: P885438

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

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885438  
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-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: ELECTRONIC DRIVER

**Summary**

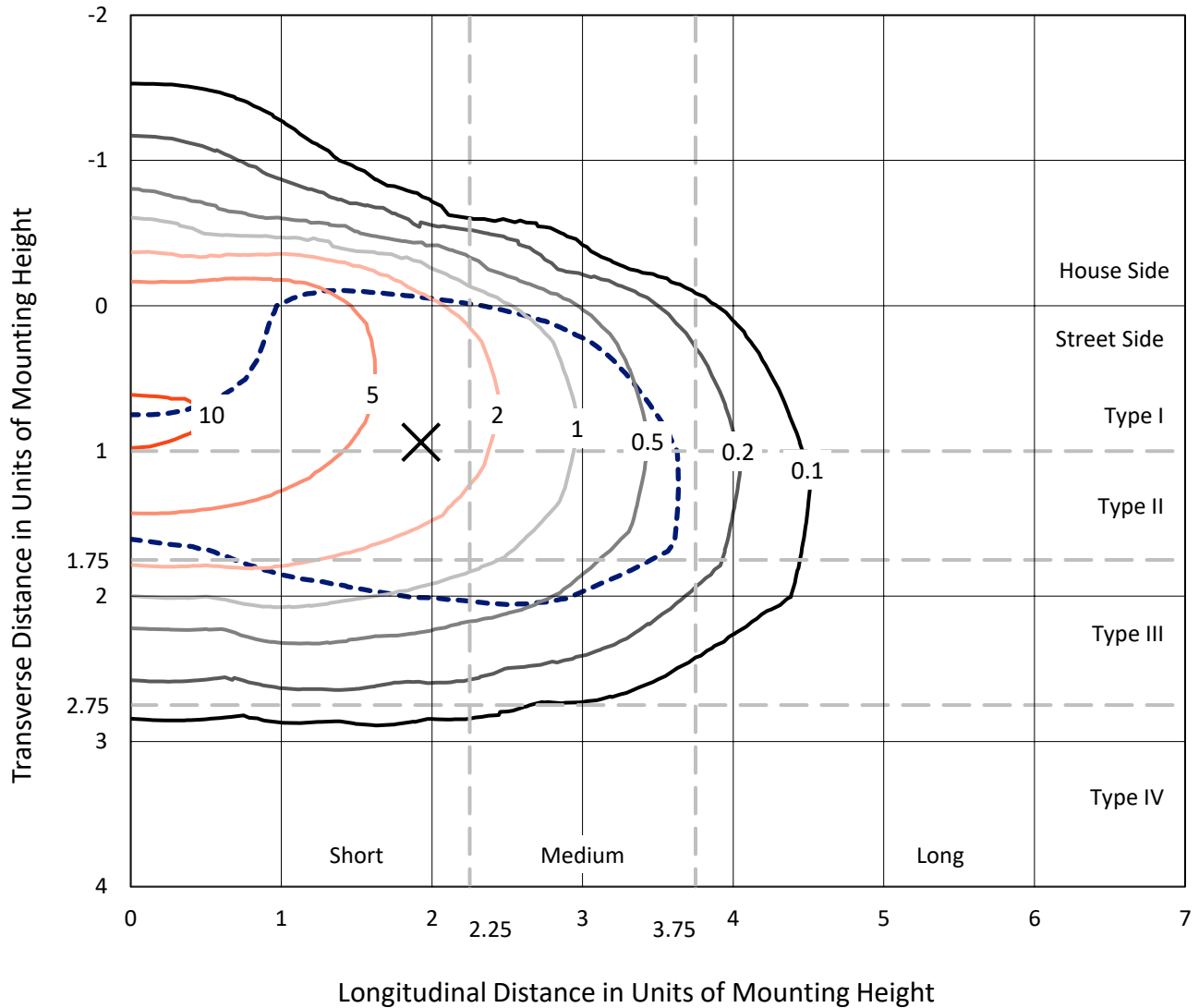
Lumens per Lamp: N/A  
Luminaire Lumens: 38601 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 3.68  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

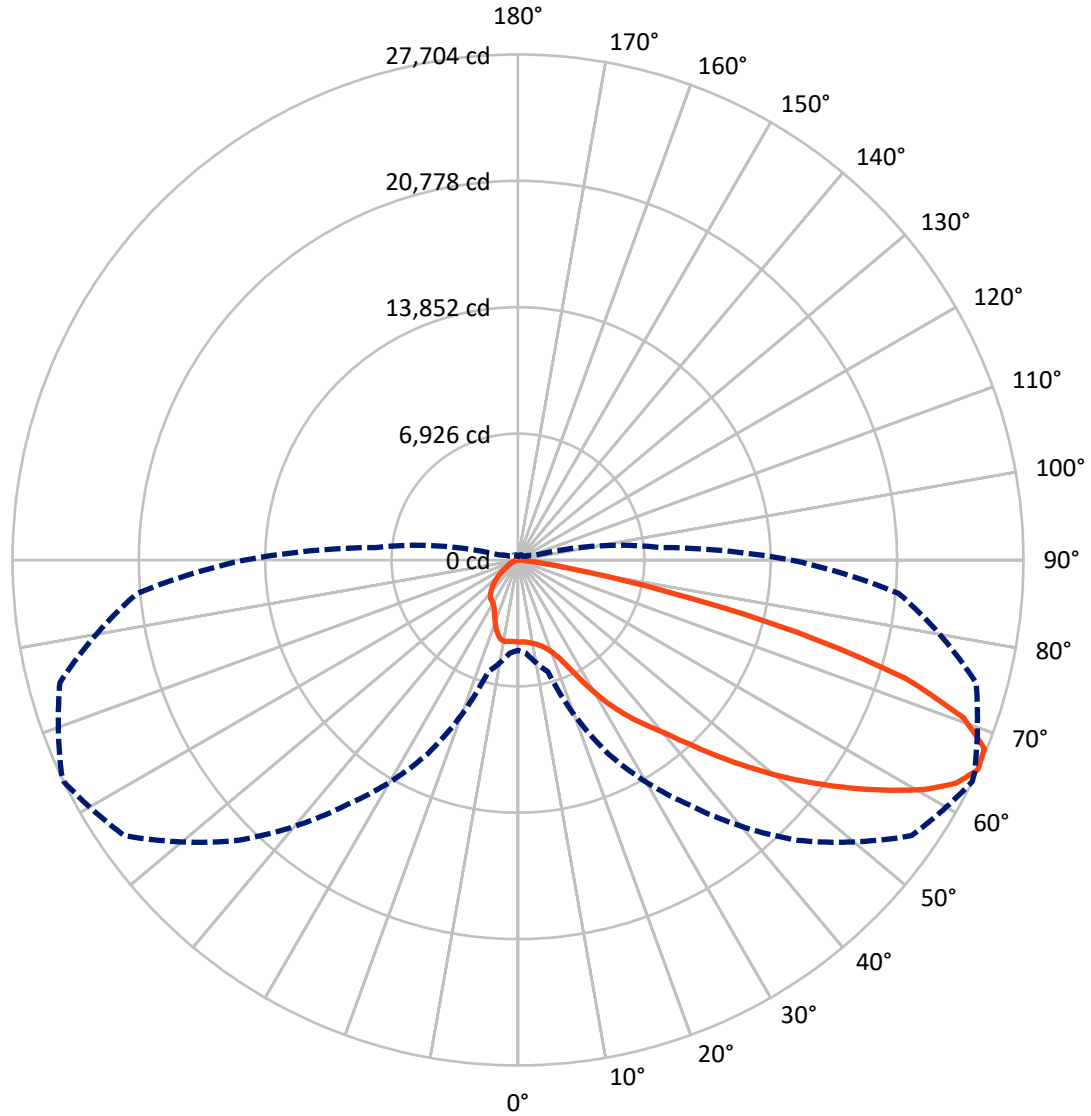
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	5162.1	0.0	5162.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	33438.9	0.0	33438.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	38601.0	0.0	38601.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.2	1.1
10°-20°	1123.5	2.9
20°-30°	2128.9	5.5
30°-40°	4307.9	11.2
40°-50°	7338.5	19.0
50°-60°	9979.8	25.9
60°-70°	9371.6	24.3
70°-80°	3754.7	9.7
80°-90°	181.9	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°	38601.0	100.0
0°-180°	38601.0	100.0

**Coefficient of Utilization**



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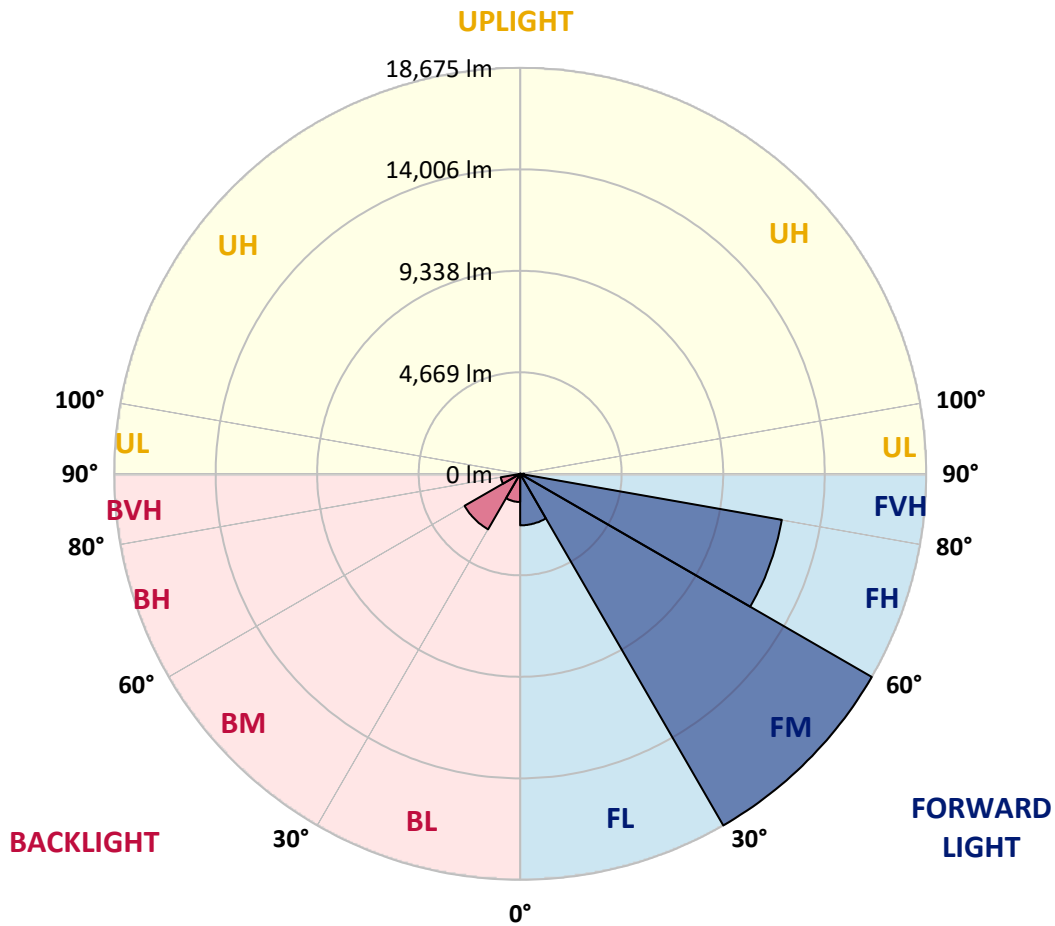
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2370.5	6.1			
FM (30°-60°)	18675.1	48.4			
FH (60°-80°)	12220.2	31.7			G5
FVH (80°-90°)	173.0	0.4			G2/225
BL (0°-30°)	1296.1	3.4	B3/2500		
BM (30°-60°)	2951.1	7.6	B3/5000		
BH (60°-80°)	906.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.9	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°	4489.7	4489.7	4489.7	4489.7	4489.7	4489.7	4489.7	4489.7	4489.7	4489.7	4489.7
2.5°	4474.2	4505.2	4497.5	4489.7	4487.1	4492.3	4494.9	4492.3	4492.3	4492.3	4494.9
5°	4388.8	4414.7	4414.7	4432.8	4458.6	4489.7	4513.0	4518.2	4523.3	4531.1	4528.5
7.5°	4225.7	4246.5	4262.0	4321.5	4386.2	4469.0	4538.9	4575.1	4580.3	4608.7	4619.1
10°	4114.5	4140.4	4166.2	4228.3	4321.5	4445.7	4564.7	4652.7	4665.7	4732.9	4764.0
12.5°	4109.3	4135.2	4168.8	4236.1	4344.8	4476.8	4621.7	4748.5	4771.8	4870.1	4934.8
15°	4163.6	4194.7	4225.7	4308.6	4425.0	4585.4	4740.7	4898.6	4921.8	5061.6	5131.5
17.5°	4274.9	4316.3	4339.6	4422.4	4546.6	4725.2	4929.6	5110.8	5131.5	5294.5	5382.5
20°	4494.9	4544.0	4551.8	4619.1	4740.7	4932.2	5175.4	5400.6	5426.5	5612.8	5711.1
22.5°	4950.3	5020.2	4958.1	4991.7	5100.4	5291.9	5555.8	5840.5	5876.7	6088.9	6176.9
25°	5752.5	5850.8	5690.4	5633.5	5680.0	5879.3	6210.5	6570.2	6611.6	6782.4	6826.4
27.5°	7328.4	7201.6	6958.4	6720.3	6580.6	6694.4	7067.1	7512.2	7563.9	7729.5	7677.8
30°	9059.6	8948.3	8619.7	8091.8	7760.6	7742.5	8086.6	8583.5	8643.0	8800.8	8643.0
32.5°	10793.4	10687.3	10330.2	9680.7	9106.2	8821.5	9059.6	9610.8	9641.9	9742.8	9509.9
35°	12498.7	12390.0	12032.9	11367.9	10661.4	10014.5	9967.9	10589.0	10599.3	10705.4	10358.6
37.5°	14214.4	14123.8	13743.4	13091.3	12395.2	11502.4	11070.3	11515.4	11528.3	11631.8	11272.1
40°	15438.3	15477.2	15215.8	14711.2	14113.4	13137.9	12307.2	12501.3	12423.7	12597.0	12382.2
42.5°	16489.0	16566.6	16338.9	16085.3	15738.5	14879.4	13839.1	13805.5	13681.3	13774.4	13551.9
45°	17397.3	17461.9	17257.5	17198.0	17190.2	16587.3	15513.4	15311.5	15138.2	15120.1	14853.5
47.5°	17731.1	17855.3	17943.3	18142.5	18530.7	18277.1	17244.6	16931.5	16737.4	16595.1	16173.3
50°	17857.9	17989.8	18290.0	18869.7	19788.3	19897.0	18968.0	18616.1	18378.0	18119.2	17498.2
52.5°	17687.1	17922.6	18326.2	19301.8	20634.5	21196.0	20621.6	20313.6	20041.9	19620.1	18698.9
55°	16680.5	16915.9	17741.4	19296.6	21056.3	22106.9	22184.5	22047.4	21742.0	21077.0	19669.3
57.5°	14558.5	14907.9	16214.7	18639.4	21048.5	22891.0	23716.5	23814.8	23473.2	22520.9	20432.7
60°	11618.9	12092.4	13686.5	17182.5	20399.0	23315.4	25059.5	25551.2	25188.9	23944.2	21051.1
62.5°	8107.3	8655.9	10164.6	14900.1	18913.7	23010.0	26040.2	26948.5	26674.2	25217.3	21289.2
65°	4945.1	5121.1	6337.3	11725.0	16388.0	21731.7	26343.0	27704.1	27613.6	25996.3	20937.3
67.5°	3294.2	3441.7	3791.0	8040.1	12721.2	19177.6	25618.4	27572.2	27598.1	25869.5	19648.6
70°	1984.8	2111.6	2339.3	4676.0	8244.5	15179.6	23374.9	25890.2	26040.2	24174.5	17205.8
72.5°	817.7	903.1	1110.1	2119.3	4269.7	9634.1	18613.5	22228.5	22577.9	20326.6	13205.1
75°	463.2	507.2	652.1	1063.6	1852.8	4489.7	11274.7	15779.9	16294.9	14009.9	7944.3
77.5°	307.9	328.6	421.8	688.3	1042.9	1531.9	4818.3	8221.2	9204.5	7651.9	3439.1
80°	207.0	225.1	289.8	460.6	678.0	657.3	1534.5	3045.7	3747.0	2629.1	838.4
82.5°	139.7	142.3	207.0	302.8	429.6	318.3	452.9	947.1	1190.4	760.8	318.3
85°	80.2	77.6	152.7	176.0	191.5	132.0	137.1	284.6	372.6	320.9	181.1
87.5°	10.4	15.5	59.5	46.6	25.9	28.5	28.5	49.2	72.5	77.6	38.8
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°	4489.7	4489.7	4489.7	4489.7	4489.7	4489.7	4489.7	4489.7	4489.7	4489.7	4489.7
2.5°	4494.9	4492.3	4484.5	4476.8	4458.6	4448.3	4453.5	4448.3	4445.7	4448.3	4458.6
5°	4528.5	4520.7	4500.0	4474.2	4437.9	4394.0	4365.5	4324.1	4285.3	4262.0	4267.2
7.5°	4619.1	4611.3	4582.9	4510.4	4394.0	4210.2	4042.0	3894.5	3783.2	3718.6	3721.1
10°	4764.0	4751.1	4707.1	4546.6	4241.3	3840.2	3506.4	3229.5	3048.3	2962.9	2955.2
12.5°	4934.8	4919.3	4841.6	4513.0	3951.5	3325.2	2864.6	2556.7	2388.5	2313.4	2305.7
15°	5136.6	5115.9	4963.3	4352.5	3529.7	2755.9	2334.1	2103.8	1995.1	1927.9	1930.4
17.5°	5387.6	5351.4	5053.8	4111.9	3071.6	2321.2	2008.1	1834.7	1738.9	1674.3	1669.1
20°	5713.7	5654.2	5126.3	3824.7	2649.8	2046.9	1788.1	1643.2	1570.7	1513.8	1503.5
22.5°	6169.1	6083.7	5214.3	3514.1	2352.2	1858.0	1625.1	1519.0	1459.5	1394.8	1384.4
25°	6733.3	6632.3	5322.9	3226.9	2147.8	1695.0	1506.1	1418.1	1348.2	1273.2	1265.4
27.5°	7522.5	7341.4	5452.3	2991.4	1971.8	1555.2	1397.4	1299.0	1218.8	1156.7	1143.8
30°	8402.3	8104.7	5566.2	2849.1	1811.4	1425.8	1255.0	1156.7	1081.7	1037.7	1029.9
32.5°	9235.6	8831.9	5641.2	2787.0	1666.5	1278.3	1099.8	993.7	936.8	923.8	931.6
35°	10022.2	9489.2	5633.5	2727.5	1537.1	1130.8	947.1	838.4	794.4	802.2	802.2
37.5°	10927.9	10190.4	5579.1	2634.3	1431.0	996.3	815.1	719.4	680.6	683.2	693.5
40°	11981.2	11000.4	5545.5	2458.3	1314.6	872.1	706.4	628.8	600.4	590.0	587.4
42.5°	13104.2	11784.5	5550.7	2259.1	1169.7	760.8	631.4	566.7	540.8	533.1	530.5
45°	14232.5	12532.3	5558.4	2052.1	1017.0	675.4	577.1	522.7	507.2	496.8	496.8
47.5°	15293.4	13168.9	5413.5	1829.5	866.9	610.7	533.1	496.8	483.9	471.0	471.0
50°	16281.9	13593.3	5064.2	1570.7	747.9	558.9	499.4	473.6	460.6	447.7	447.7
52.5°	17050.5	13660.6	4487.1	1304.2	665.0	520.1	478.7	455.4	439.9	427.0	424.4
55°	17392.1	13238.8	3666.8	1055.8	600.4	486.5	458.0	434.7	416.6	403.7	401.1
57.5°	17304.1	12351.2	2859.4	848.8	538.2	452.9	432.1	416.6	395.9	375.2	372.6
60°	16871.9	11163.4	2155.6	706.4	481.3	416.6	403.7	390.7	362.3	331.2	326.1
62.5°	16124.1	9670.3	1537.1	584.8	419.2	375.2	370.0	359.7	318.3	261.4	256.2
65°	14980.3	7856.3	1035.1	486.5	359.7	328.6	331.2	313.1	258.8	194.1	188.9
67.5°	13308.7	5744.7	662.5	398.5	300.2	274.3	276.9	266.5	220.0	165.6	157.9
70°	11179.0	3804.0	432.1	302.8	240.7	212.2	227.7	230.3	186.3	134.6	129.4
72.5°	8195.3	2246.1	302.8	225.1	176.0	147.5	186.3	191.5	150.1	100.9	95.7
75°	4670.8	1066.1	227.7	163.0	108.7	103.5	144.9	144.9	103.5	67.3	62.1
77.5°	1961.5	445.1	160.4	106.1	62.1	59.5	98.3	90.6	51.8	31.1	31.1
80°	566.7	199.3	85.4	51.8	25.9	23.3	38.8	28.5	12.9	5.2	5.2
82.5°	222.5	88.0	33.6	20.7	10.4	10.4	5.2	0.0	0.0	0.0	0.0
85°	132.0	36.2	15.5	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	33.6	7.8	5.2	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)