

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: P884998

Luminaire Tested: **NAV-SB6A-827-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884998  
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-SB6A-827-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

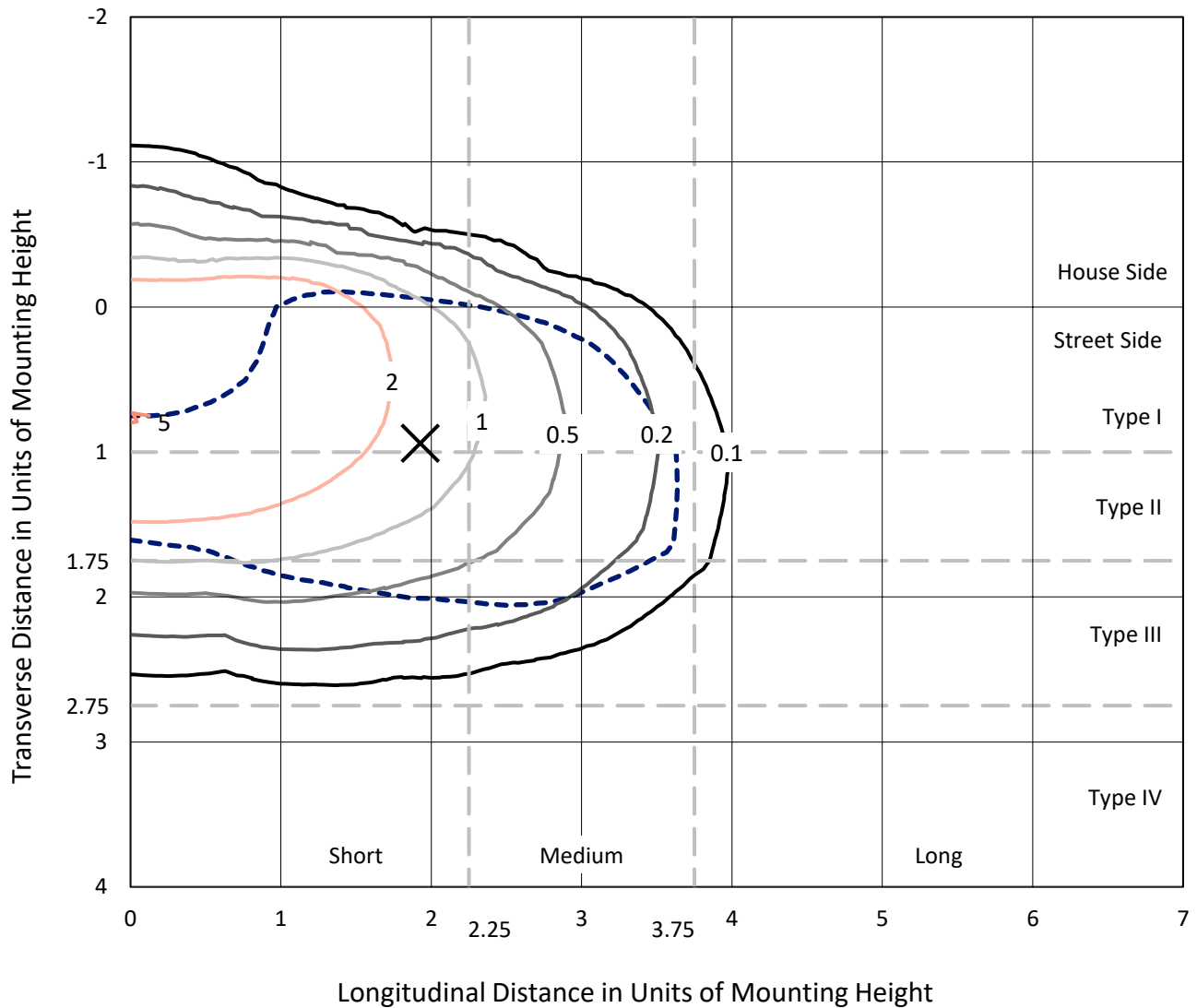
Lumens per Lamp: N/A  
Luminaire Lumens: 17350 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 1.434  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

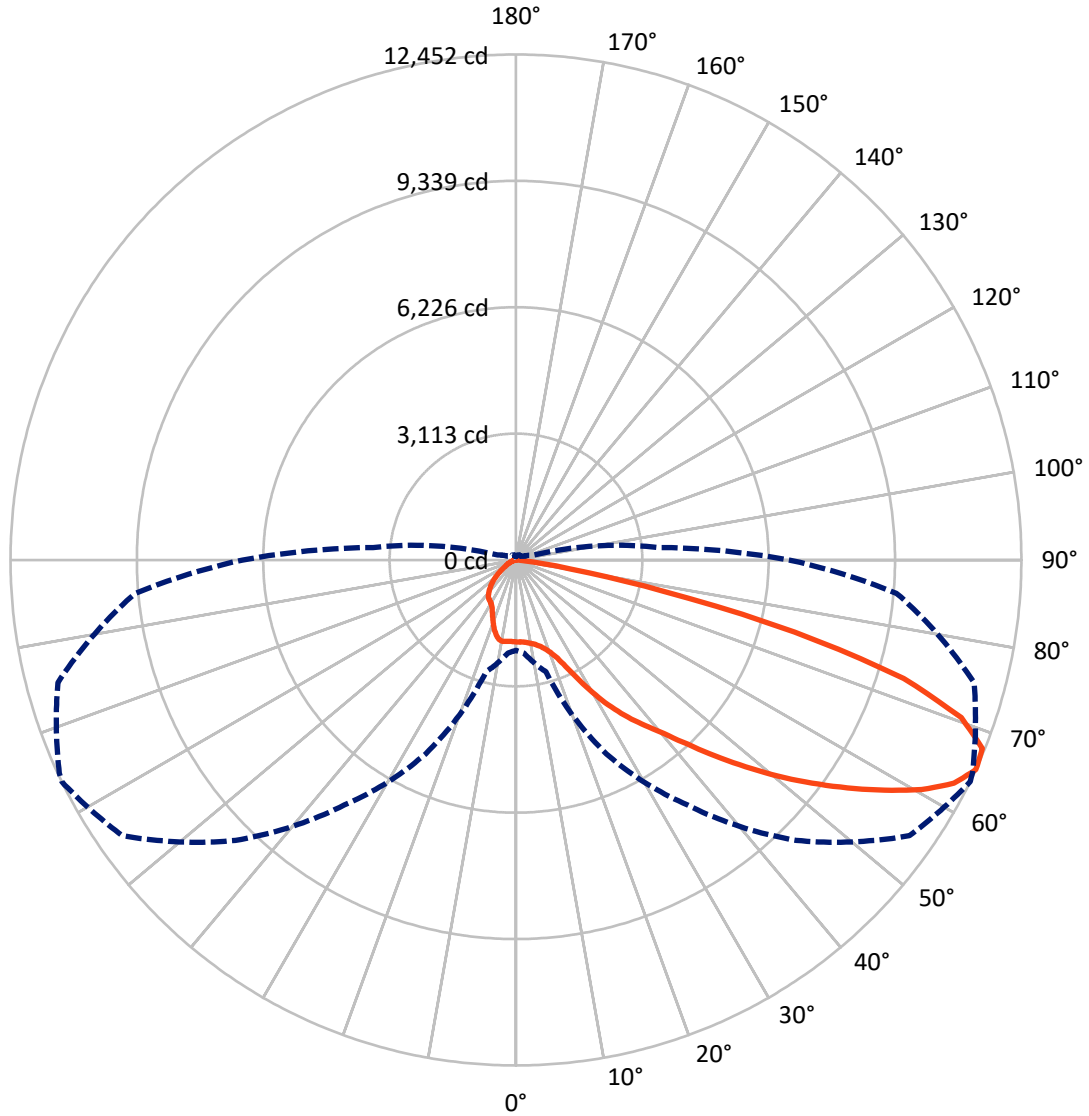
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2320.2	0.0	2320.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	15029.8	0.0	15029.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	17350.0	0.0	17350.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.2	1.1
10°-20°	505.0	2.9
20°-30°	956.9	5.5
30°-40°	1936.3	11.2
40°-50°	3298.5	19.0
50°-60°	4485.6	25.9
60°-70°	4212.2	24.3
70°-80°	1687.6	9.7
80°-90°	81.8	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°	17350.0	100.0
0°-180°	17350.0	100.0

**Coefficient of Utilization**



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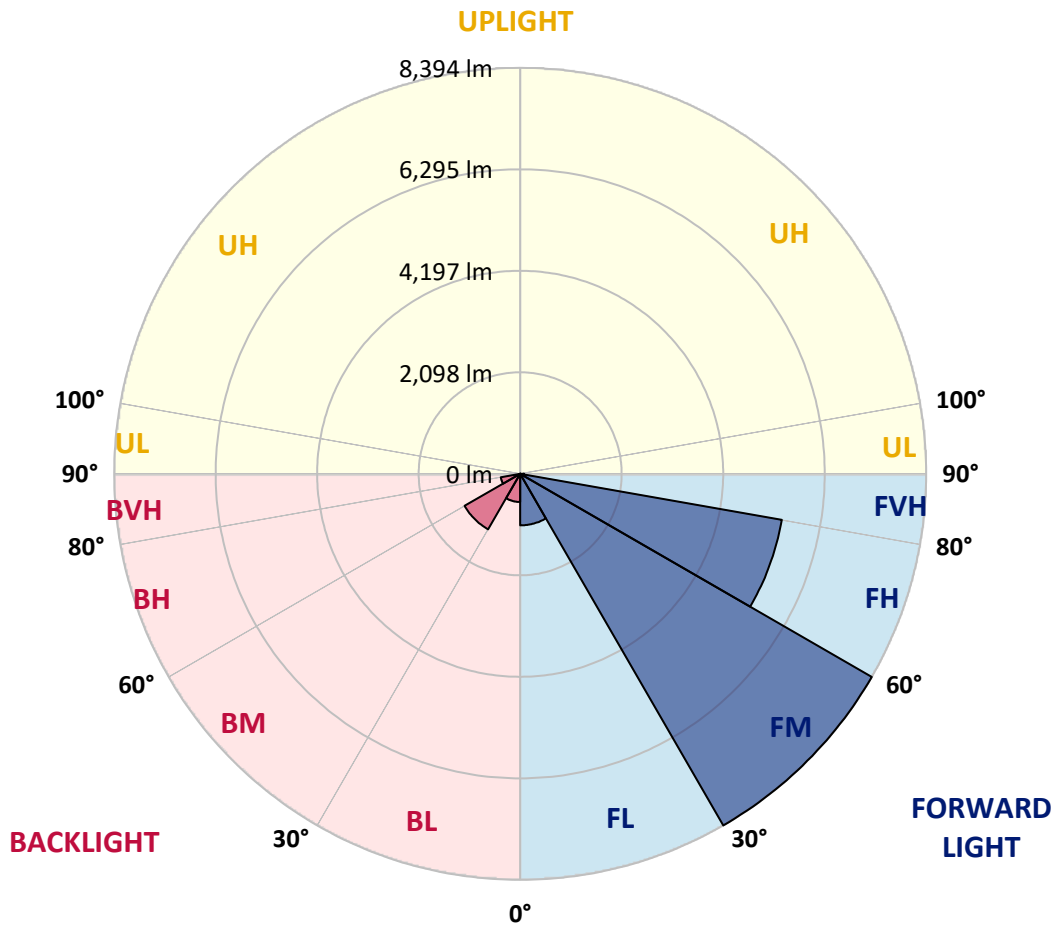
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.5	6.1			
FM (30°-60°)	8393.9	48.4			
FH (60°-80°)	5492.6	31.7			G3/7500
FVH (80°-90°)	77.8	0.4			G1/100
BL (0°-30°)	582.5	3.4	B2/1000		
BM (30°-60°)	1326.4	7.6	B2/2500		
BH (60°-80°)	407.2	2.3	B1/500		G1/500
BVH (80°-90°)	4.0	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-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0
2.5°	2011.0	2025.0	2021.5	2018.0	2016.8	2019.1	2020.3	2019.1	2019.1	2019.1	2020.3
5°	1972.6	1984.3	1984.3	1992.4	2004.0	2018.0	2028.5	2030.8	2033.1	2036.6	2035.4
7.5°	1899.3	1908.7	1915.6	1942.4	1971.5	2008.7	2040.1	2056.4	2058.7	2071.5	2076.1
10°	1849.3	1861.0	1872.6	1900.5	1942.4	1998.2	2051.7	2091.3	2097.1	2127.3	2141.3
12.5°	1847.0	1858.6	1873.8	1904.0	1952.9	2012.2	2077.3	2134.3	2144.8	2189.0	2218.0
15°	1871.4	1885.4	1899.3	1936.6	1988.9	2061.0	2130.8	2201.8	2212.2	2275.0	2306.4
17.5°	1921.4	1940.1	1950.5	1987.7	2043.6	2123.8	2215.7	2297.1	2306.4	2379.7	2419.3
20°	2020.3	2042.4	2045.9	2076.1	2130.8	2216.9	2326.2	2427.4	2439.0	2522.8	2567.0
22.5°	2225.0	2256.4	2228.5	2243.6	2292.5	2378.5	2497.2	2625.1	2641.4	2736.8	2776.3
25°	2585.6	2629.8	2557.7	2532.1	2553.0	2642.6	2791.4	2953.1	2971.7	3048.5	3068.3
27.5°	3293.9	3236.9	3127.6	3020.6	2957.8	3008.9	3176.4	3376.5	3399.8	3474.2	3450.9
30°	4072.0	4022.0	3874.3	3637.0	3488.1	3480.0	3634.7	3858.0	3884.8	3955.7	3884.8
32.5°	4851.3	4803.6	4643.1	4351.2	4093.0	3965.0	4072.0	4319.8	4333.7	4379.1	4274.4
35°	5617.8	5568.9	5408.4	5109.5	4792.0	4501.2	4480.3	4759.4	4764.1	4811.8	4655.9
37.5°	6388.9	6348.2	6177.2	5884.1	5571.3	5170.0	4975.8	5175.8	5181.6	5228.2	5066.5
40°	6939.1	6956.5	6839.1	6612.2	6343.6	5905.1	5531.7	5619.0	5584.1	5662.0	5565.5
42.5°	7411.3	7446.2	7343.8	7229.9	7074.0	6687.8	6220.3	6205.2	6149.3	6191.2	6091.2
45°	7819.5	7848.6	7756.7	7730.0	7726.5	7455.5	6972.8	6882.1	6804.2	6796.0	6676.2
47.5°	7969.6	8025.4	8065.0	8154.5	8329.0	8215.0	7750.9	7610.2	7523.0	7459.0	7269.4
50°	8026.6	8085.9	8220.8	8481.4	8894.3	8943.1	8525.6	8367.4	8260.4	8144.1	7864.9
52.5°	7949.8	8055.7	8237.1	8675.6	9274.6	9527.0	9268.8	9130.4	9008.2	8818.7	8404.6
55°	7497.4	7603.2	7974.2	8673.3	9464.2	9936.4	9971.3	9909.6	9772.4	9473.5	8840.8
57.5°	6543.6	6700.6	7288.0	8377.8	9460.7	10288.8	10659.8	10704.0	10550.5	10122.5	9183.9
60°	5222.3	5435.2	6151.7	7723.0	9168.7	10479.6	11263.5	11484.5	11321.7	10762.2	9461.8
62.5°	3644.0	3890.6	4568.7	6697.2	8501.1	10342.3	11704.3	12112.6	11989.3	11334.4	9568.9
65°	2222.7	2301.8	2848.4	5270.0	7365.9	9767.7	11840.4	12452.2	12411.5	11684.5	9410.7
67.5°	1480.6	1546.9	1703.9	3613.8	5717.8	8619.8	11514.7	12392.9	12404.5	11627.5	8831.4
70°	892.1	949.1	1051.4	2101.7	3705.6	6822.8	10506.3	11636.9	11704.3	10865.7	7733.5
72.5°	367.5	405.9	499.0	952.6	1919.1	4330.2	8366.2	9991.1	10148.1	9136.2	5935.3
75°	208.2	228.0	293.1	478.0	832.8	2018.0	5067.6	7092.6	7324.1	6297.0	3570.7
77.5°	138.4	147.7	189.6	309.4	468.7	688.6	2165.7	3695.2	4137.2	3439.3	1545.8
80°	93.0	101.2	130.3	207.0	304.7	295.4	689.7	1369.0	1684.2	1181.7	376.8
82.5°	62.8	64.0	93.0	136.1	193.1	143.1	203.5	425.7	535.0	342.0	143.1
85°	36.1	34.9	68.6	79.1	86.1	59.3	61.6	127.9	167.5	144.2	81.4
87.5°	4.7	7.0	26.8	20.9	11.6	12.8	12.8	22.1	32.6	34.9	17.4
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°	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0	2018.0
2.5°	2020.3	2019.1	2015.7	2012.2	2004.0	1999.4	2001.7	1999.4	1998.2	1999.4	2004.0
5°	2035.4	2031.9	2022.6	2011.0	1994.7	1975.0	1962.2	1943.5	1926.1	1915.6	1918.0
7.5°	2076.1	2072.7	2059.9	2027.3	1975.0	1892.4	1816.8	1750.5	1700.5	1671.4	1672.5
10°	2141.3	2135.5	2115.7	2043.6	1906.3	1726.0	1576.0	1451.6	1370.1	1331.8	1328.3
12.5°	2218.0	2211.1	2176.2	2028.5	1776.1	1494.6	1287.6	1149.1	1073.5	1039.8	1036.3
15°	2308.8	2299.5	2230.8	1956.3	1586.5	1238.7	1049.1	945.6	896.8	866.5	867.7
17.5°	2421.6	2405.3	2271.5	1848.2	1380.6	1043.3	902.6	824.6	781.6	752.5	750.2
20°	2568.1	2541.4	2304.1	1719.1	1191.0	920.0	803.7	738.6	706.0	680.4	675.8
22.5°	2772.8	2734.5	2343.7	1579.5	1057.3	835.1	730.4	682.7	656.0	626.9	622.3
25°	3026.4	2981.0	2392.5	1450.4	965.4	761.8	676.9	637.4	606.0	572.2	568.8
27.5°	3381.1	3299.7	2450.7	1344.5	886.3	699.0	628.1	583.9	547.8	519.9	514.1
30°	3776.6	3642.8	2501.8	1280.6	814.2	640.9	564.1	519.9	486.2	466.4	462.9
32.5°	4151.1	3969.7	2535.6	1252.7	749.0	574.6	494.3	446.6	421.0	415.2	418.7
35°	4504.7	4265.1	2532.1	1225.9	690.9	508.3	425.7	376.8	357.1	360.6	360.6
37.5°	4911.8	4580.3	2507.7	1184.0	643.2	447.8	366.4	323.3	305.9	307.1	311.7
40°	5385.2	4944.4	2492.5	1104.9	590.9	392.0	317.5	282.6	269.8	265.2	264.0
42.5°	5890.0	5296.8	2494.9	1015.4	525.7	342.0	283.8	254.7	243.1	239.6	238.4
45°	6397.1	5632.9	2498.3	922.3	457.1	303.6	259.4	234.9	228.0	223.3	223.3
47.5°	6873.9	5919.0	2433.2	822.3	389.6	274.5	239.6	223.3	217.5	211.7	211.7
50°	7318.2	6109.8	2276.2	706.0	336.1	251.2	224.5	212.8	207.0	201.2	201.2
52.5°	7663.7	6140.0	2016.8	586.2	298.9	233.8	215.2	204.7	197.7	191.9	190.7
55°	7817.2	5950.4	1648.1	474.5	269.8	218.7	205.9	195.4	187.3	181.4	180.3
57.5°	7777.7	5551.5	1285.2	381.5	241.9	203.5	194.2	187.3	178.0	168.7	167.5
60°	7583.4	5017.6	968.9	317.5	216.3	187.3	181.4	175.6	162.8	148.9	146.6
62.5°	7247.3	4346.5	690.9	262.9	188.4	168.7	166.3	161.7	143.1	117.5	115.1
65°	6733.2	3531.2	465.2	218.7	161.7	147.7	148.9	140.7	116.3	87.2	84.9
67.5°	5981.8	2582.1	297.8	179.1	134.9	123.3	124.5	119.8	98.9	74.4	70.9
70°	5024.6	1709.8	194.2	136.1	108.2	95.4	102.4	103.5	83.7	60.5	58.2
72.5°	3683.5	1009.6	136.1	101.2	79.1	66.3	83.7	86.1	67.5	45.4	43.0
75°	2099.4	479.2	102.4	73.3	48.9	46.5	65.1	65.1	46.5	30.2	27.9
77.5°	881.6	200.1	72.1	47.7	27.9	26.8	44.2	40.7	23.3	14.0	14.0
80°	254.7	89.6	38.4	23.3	11.6	10.5	17.4	12.8	5.8	2.3	2.3
82.5°	100.0	39.5	15.1	9.3	4.7	4.7	2.3	0.0	0.0	0.0	0.0
85°	59.3	16.3	7.0	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	3.5	2.3	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)