

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: P883238

Luminaire Tested: **NAV-SB3C-727-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883238  
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-SB3C-727-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

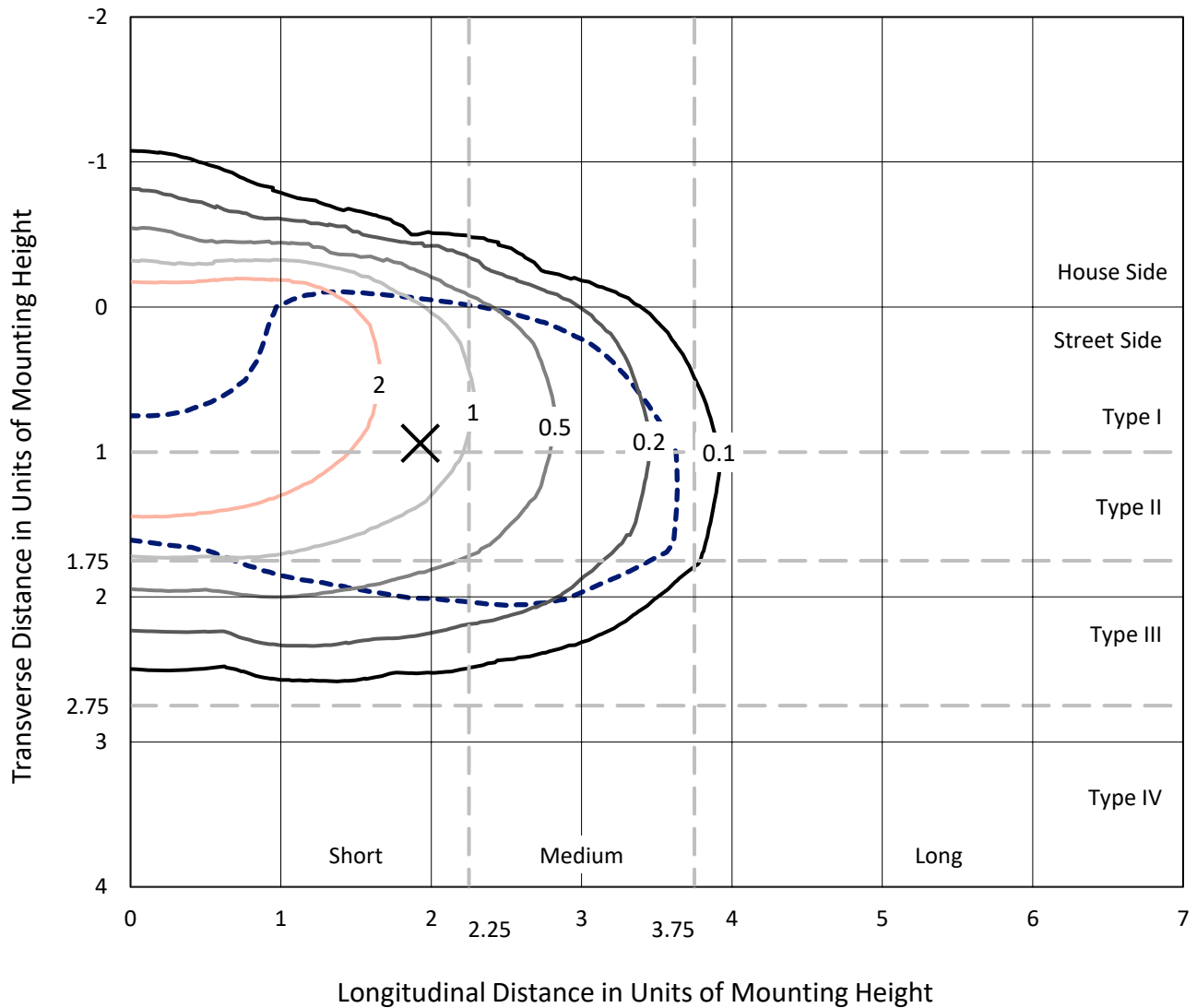
Lumens per Lamp: N/A  
Luminaire Lumens: 15966 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.259  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

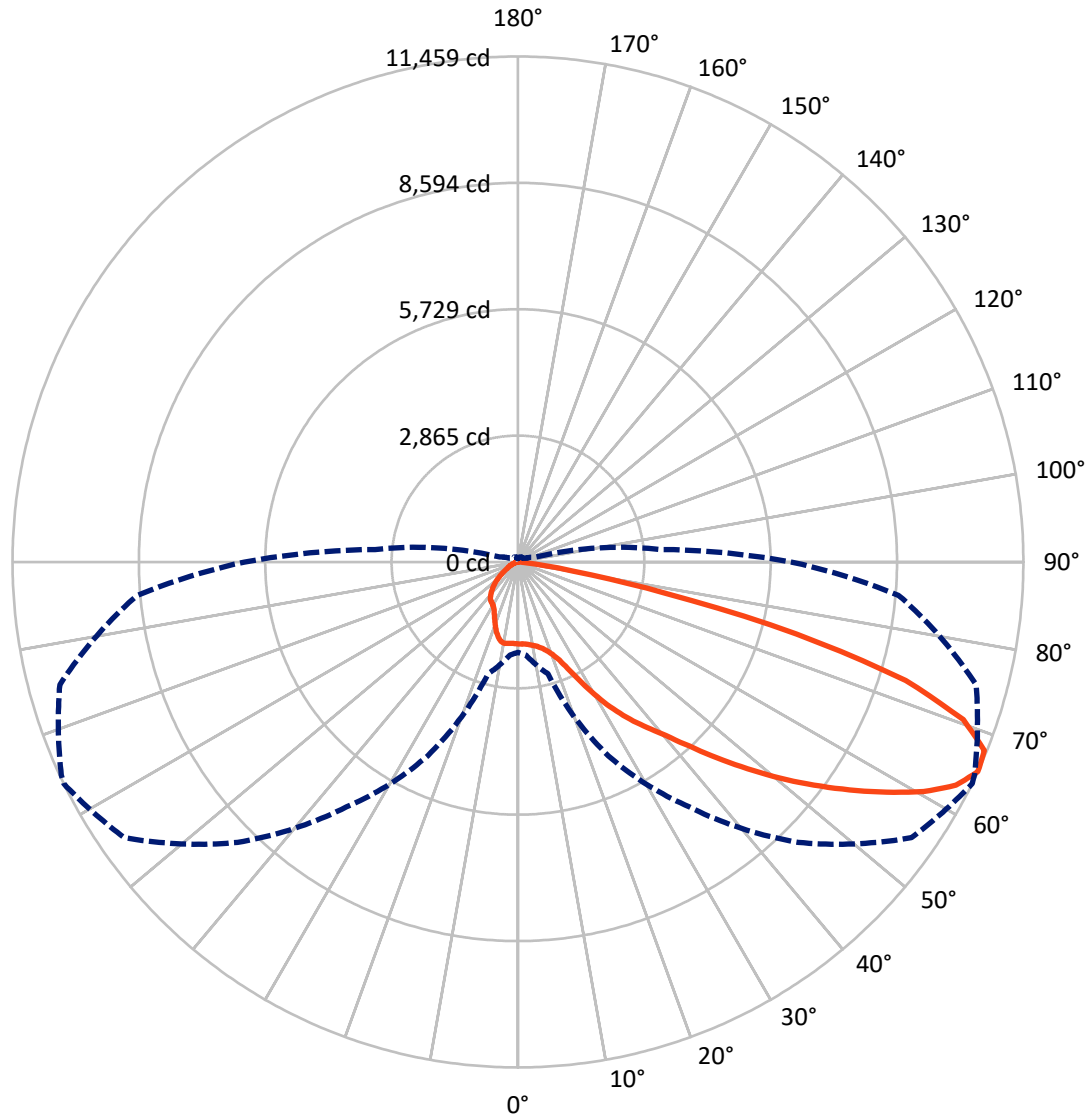
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2135.1	0.0	2135.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	13830.9	0.0	13830.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	15966.0	0.0	15966.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.3	1.1
10°-20°	464.7	2.9
20°-30°	880.5	5.5
30°-40°	1781.8	11.2
40°-50°	3035.3	19.0
50°-60°	4127.8	25.9
60°-70°	3876.2	24.3
70°-80°	1553.0	9.7
80°-90°	75.2	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°	15966.0	100.0
0°-180°	15966.0	100.0

**Coefficient of Utilization**



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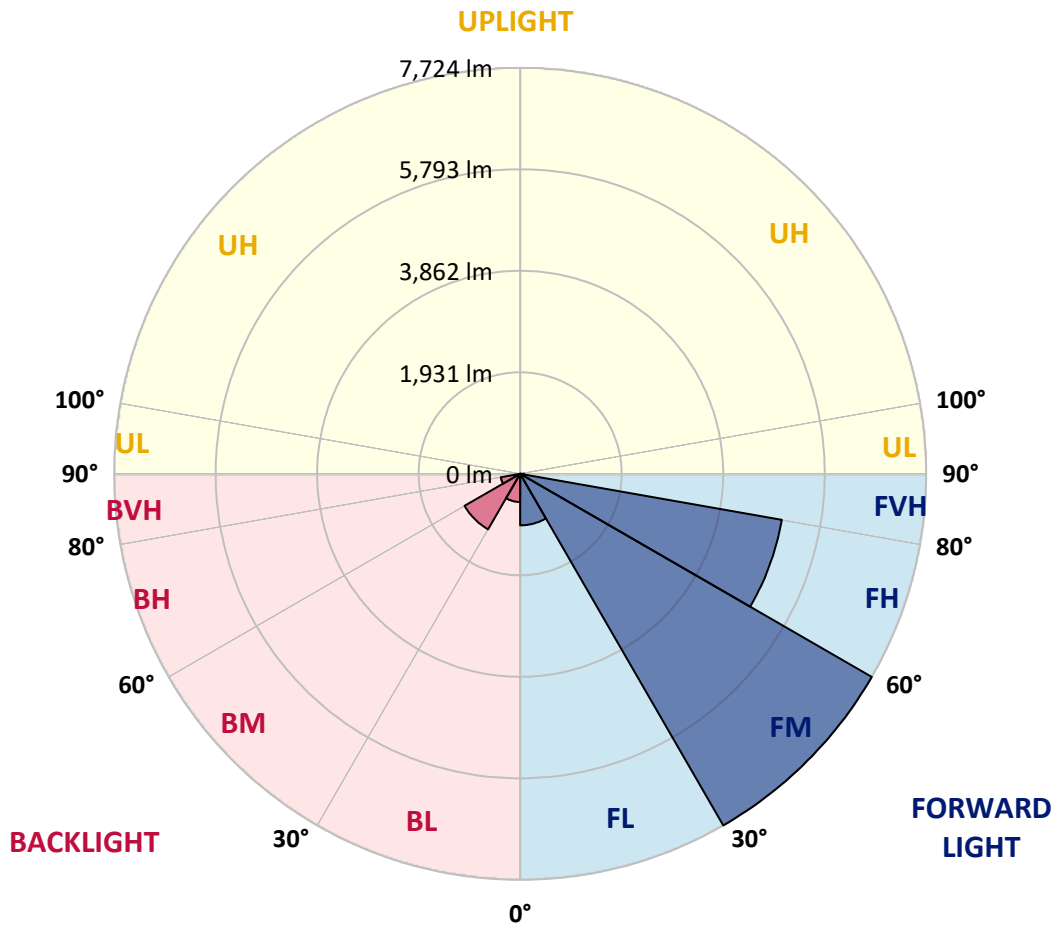
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.5	6.1			
FM (30°-60°)	7724.3	48.4			
FH (60°-80°)	5054.5	31.7			G3/7500
FVH (80°-90°)	71.6	0.4			G1/100
BL (0°-30°)	536.1	3.4	B2/1000		
BM (30°-60°)	1220.6	7.6	B2/2500		
BH (60°-80°)	374.8	2.3	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0
2.5°	1850.6	1863.4	1860.2	1857.0	1855.9	1858.1	1859.2	1858.1	1858.1	1858.1	1859.2
5°	1815.3	1826.0	1826.0	1833.5	1844.2	1857.0	1866.6	1868.8	1870.9	1874.1	1873.1
7.5°	1747.8	1756.4	1762.8	1787.4	1814.2	1848.4	1877.3	1892.3	1894.5	1906.2	1910.5
10°	1701.8	1712.5	1723.2	1748.9	1787.4	1838.8	1888.1	1924.4	1929.8	1957.6	1970.5
12.5°	1699.7	1710.4	1724.3	1752.1	1797.1	1851.7	1911.6	1964.0	1973.7	2014.3	2041.1
15°	1722.2	1735.0	1747.8	1782.1	1830.3	1896.6	1960.8	2026.1	2035.8	2093.6	2122.5
17.5°	1768.2	1785.3	1794.9	1829.2	1880.6	1954.4	2039.0	2113.9	2122.5	2189.9	2226.3
20°	1859.2	1879.5	1882.7	1910.5	1960.8	2040.0	2140.6	2233.8	2244.5	2321.5	2362.2
22.5°	2047.5	2076.4	2050.7	2064.7	2109.6	2188.8	2298.0	2415.7	2430.7	2518.5	2554.9
25°	2379.3	2420.0	2353.6	2330.1	2349.4	2431.8	2568.8	2717.6	2734.7	2805.3	2823.5
27.5°	3031.2	2978.7	2878.1	2779.6	2721.8	2768.9	2923.1	3107.1	3128.6	3197.1	3175.7
30°	3747.2	3701.2	3565.2	3346.9	3209.9	3202.4	3344.8	3550.3	3574.9	3640.2	3574.9
32.5°	4464.3	4420.4	4272.7	4004.1	3766.5	3648.7	3747.2	3975.2	3988.0	4029.8	3933.4
35°	5169.7	5124.7	4977.0	4701.9	4409.7	4142.2	4122.9	4379.8	4384.0	4427.9	4284.5
37.5°	5879.3	5841.8	5684.5	5414.8	5126.9	4757.6	4578.8	4762.9	4768.3	4811.1	4662.3
40°	6385.6	6401.6	6293.5	6084.8	5837.5	5434.0	5090.5	5170.7	5138.6	5210.3	5121.5
42.5°	6820.1	6852.2	6758.0	6653.1	6509.7	6154.4	5724.1	5710.2	5658.8	5697.3	5605.3
45°	7195.8	7222.5	7138.0	7113.4	7110.2	6860.8	6416.6	6333.1	6261.4	6253.9	6143.7
47.5°	7333.9	7385.2	7421.6	7504.0	7664.6	7559.7	7132.6	7003.1	6922.9	6864.0	6689.5
50°	7386.3	7440.9	7565.0	7804.8	8184.8	8229.7	7845.5	7699.9	7601.4	7494.4	7237.5
52.5°	7315.7	7413.1	7580.0	7983.5	8534.8	8767.0	8529.4	8402.0	8289.7	8115.2	7734.2
55°	6899.3	6996.7	7338.1	7981.4	8709.2	9143.8	9175.9	9119.2	8992.9	8717.8	8135.5
57.5°	6021.6	6166.1	6706.6	7709.5	8706.0	9468.1	9809.5	9850.2	9708.9	9315.0	8451.3
60°	4805.8	5001.6	5660.9	7106.9	8437.4	9643.6	10365.0	10568.4	10418.5	9903.7	8707.1
62.5°	3353.3	3580.2	4204.2	6162.9	7823.0	9517.3	10770.7	11146.4	11032.9	10430.3	8805.6
65°	2045.4	2118.2	2621.2	4849.6	6778.4	8988.6	10895.9	11458.9	11421.4	10752.5	8660.0
67.5°	1362.5	1423.5	1568.0	3325.5	5261.7	7932.2	10596.2	11404.3	11415.0	10700.0	8127.0
70°	820.9	873.4	967.6	1934.1	3410.1	6278.5	9668.2	10708.6	10770.7	9999.0	7116.6
72.5°	338.2	373.5	459.2	876.6	1766.0	3984.8	7698.8	9194.1	9338.6	8407.4	5461.9
75°	191.6	209.8	269.7	439.9	766.4	1857.0	4663.4	6526.8	6739.8	5794.7	3285.9
77.5°	127.4	135.9	174.5	284.7	431.3	633.6	1992.9	3400.4	3807.1	3164.9	1422.5
80°	85.6	93.1	119.9	190.5	280.4	271.9	634.7	1259.8	1549.8	1087.4	346.8
82.5°	57.8	58.9	85.6	125.2	177.7	131.6	187.3	391.7	492.3	314.7	131.6
85°	33.2	32.1	63.1	72.8	79.2	54.6	56.7	117.7	154.1	132.7	74.9
87.5°	4.3	6.4	24.6	19.3	10.7	11.8	11.8	20.3	30.0	32.1	16.1
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°	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0	1857.0
2.5°	1859.2	1858.1	1854.9	1851.7	1844.2	1839.9	1842.0	1839.9	1838.8	1839.9	1844.2
5°	1873.1	1869.9	1861.3	1850.6	1835.6	1817.4	1805.6	1788.5	1772.5	1762.8	1765.0
7.5°	1910.5	1907.3	1895.5	1865.6	1817.4	1741.4	1671.8	1610.8	1564.8	1538.1	1539.1
10°	1970.5	1965.1	1946.9	1880.6	1754.3	1588.4	1450.3	1335.8	1260.8	1225.5	1222.3
12.5°	2041.1	2034.7	2002.6	1866.6	1634.4	1375.4	1184.8	1057.5	987.9	956.9	953.7
15°	2124.6	2116.0	2052.9	1800.3	1459.9	1139.9	965.4	870.2	825.2	797.4	798.5
17.5°	2228.4	2213.4	2090.3	1700.7	1270.5	960.1	830.6	758.9	719.3	692.5	690.4
20°	2363.3	2338.7	2120.3	1581.9	1096.0	846.6	739.6	679.7	649.7	626.1	621.9
22.5°	2551.7	2516.3	2156.7	1453.5	972.9	768.5	672.2	628.3	603.7	576.9	572.6
25°	2785.0	2743.2	2201.7	1334.7	888.4	701.1	622.9	586.5	557.6	526.6	523.4
27.5°	3111.4	3036.5	2255.2	1237.3	815.6	643.3	578.0	537.3	504.1	478.4	473.1
30°	3475.3	3352.3	2302.3	1178.4	749.2	589.7	519.1	478.4	447.4	429.2	426.0
32.5°	3820.0	3653.0	2333.3	1152.7	689.3	528.7	454.9	411.0	387.5	382.1	385.3
35°	4145.4	3924.9	2330.1	1128.1	635.8	467.7	391.7	346.8	328.6	331.8	331.8
37.5°	4520.0	4214.9	2307.6	1089.6	591.9	412.1	337.2	297.5	281.5	282.6	286.8
40°	4955.6	4549.9	2293.7	1016.8	543.7	360.7	292.2	260.1	248.3	244.0	243.0
42.5°	5420.1	4874.3	2295.8	934.4	483.8	314.7	261.2	234.4	223.7	220.5	219.4
45°	5886.8	5183.6	2299.1	848.8	420.6	279.4	238.7	216.2	209.8	205.5	205.5
47.5°	6325.6	5446.9	2239.1	756.7	358.6	252.6	220.5	205.5	200.2	194.8	194.8
50°	6734.5	5622.4	2094.6	649.7	309.3	231.2	206.6	195.9	190.5	185.2	185.2
52.5°	7052.4	5650.2	1855.9	539.4	275.1	215.1	198.0	188.4	182.0	176.6	175.5
55°	7193.6	5475.8	1516.6	436.7	248.3	201.2	189.4	179.8	172.3	167.0	165.9
57.5°	7157.3	5108.7	1182.7	351.1	222.6	187.3	178.7	172.3	163.8	155.2	154.1
60°	6978.5	4617.4	891.6	292.2	199.1	172.3	167.0	161.6	149.8	137.0	134.9
62.5°	6669.2	3999.8	635.8	241.9	173.4	155.2	153.1	148.8	131.6	108.1	106.0
65°	6196.1	3249.5	428.1	201.2	148.8	135.9	137.0	129.5	107.0	80.3	78.1
67.5°	5504.7	2376.1	274.0	164.8	124.2	113.5	114.5	110.2	91.0	68.5	65.3
70°	4623.8	1573.4	178.7	125.2	99.5	87.8	94.2	95.3	77.1	55.7	53.5
72.5°	3389.7	929.0	125.2	93.1	72.8	61.0	77.1	79.2	62.1	41.7	39.6
75°	1931.9	441.0	94.2	67.4	45.0	42.8	59.9	59.9	42.8	27.8	25.7
77.5°	811.3	184.1	66.4	43.9	25.7	24.6	40.7	37.5	21.4	12.8	12.8
80°	234.4	82.4	35.3	21.4	10.7	9.6	16.1	11.8	5.4	2.1	2.1
82.5°	92.0	36.4	13.9	8.6	4.3	4.3	2.1	0.0	0.0	0.0	0.0
85°	54.6	15.0	6.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	3.2	2.1	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)