

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: P883318

Luminaire Tested: **NAV-SB3C-835-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883318  
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-835-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

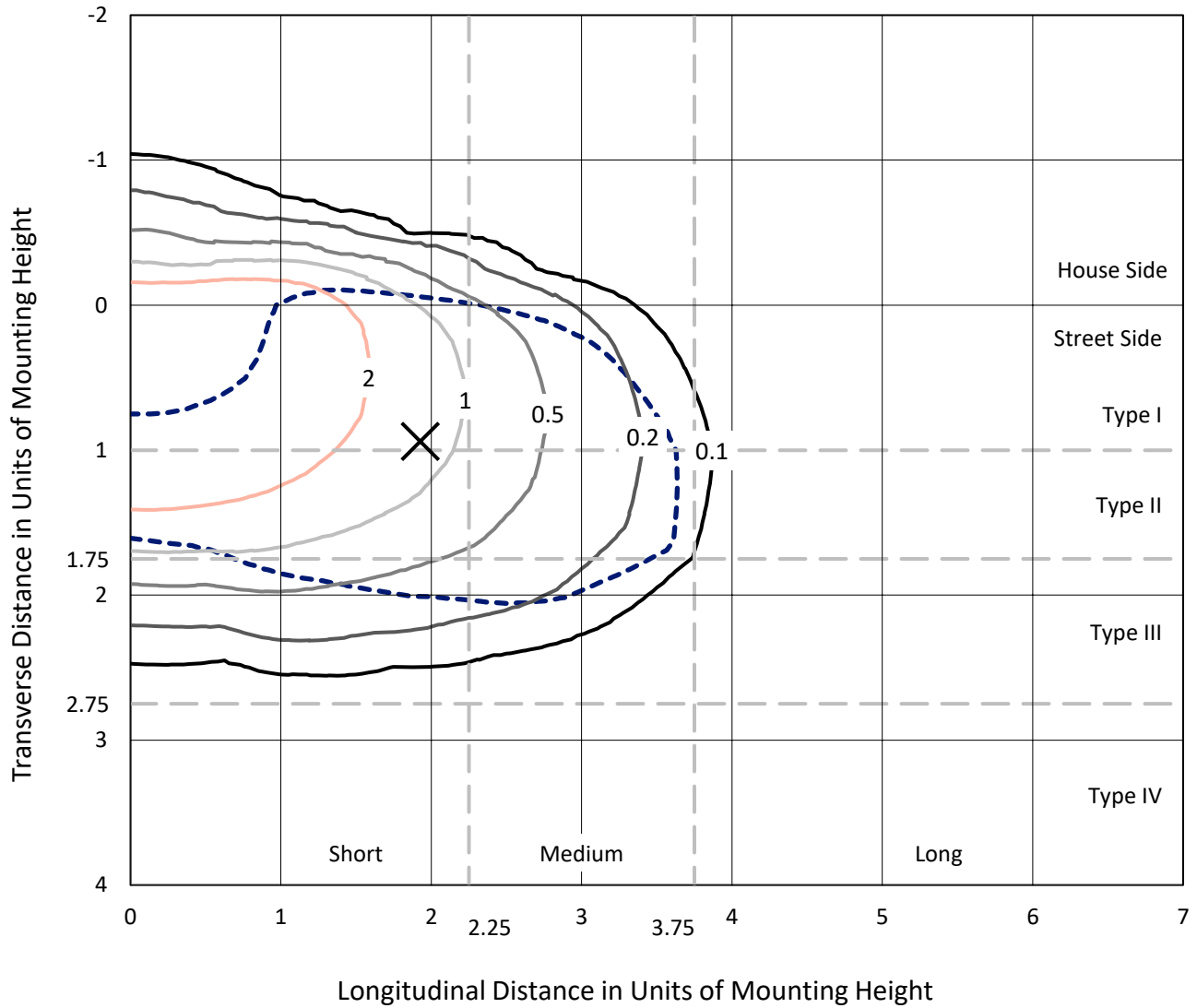
Lumens per Lamp: N/A  
Luminaire Lumens: 14865 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 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

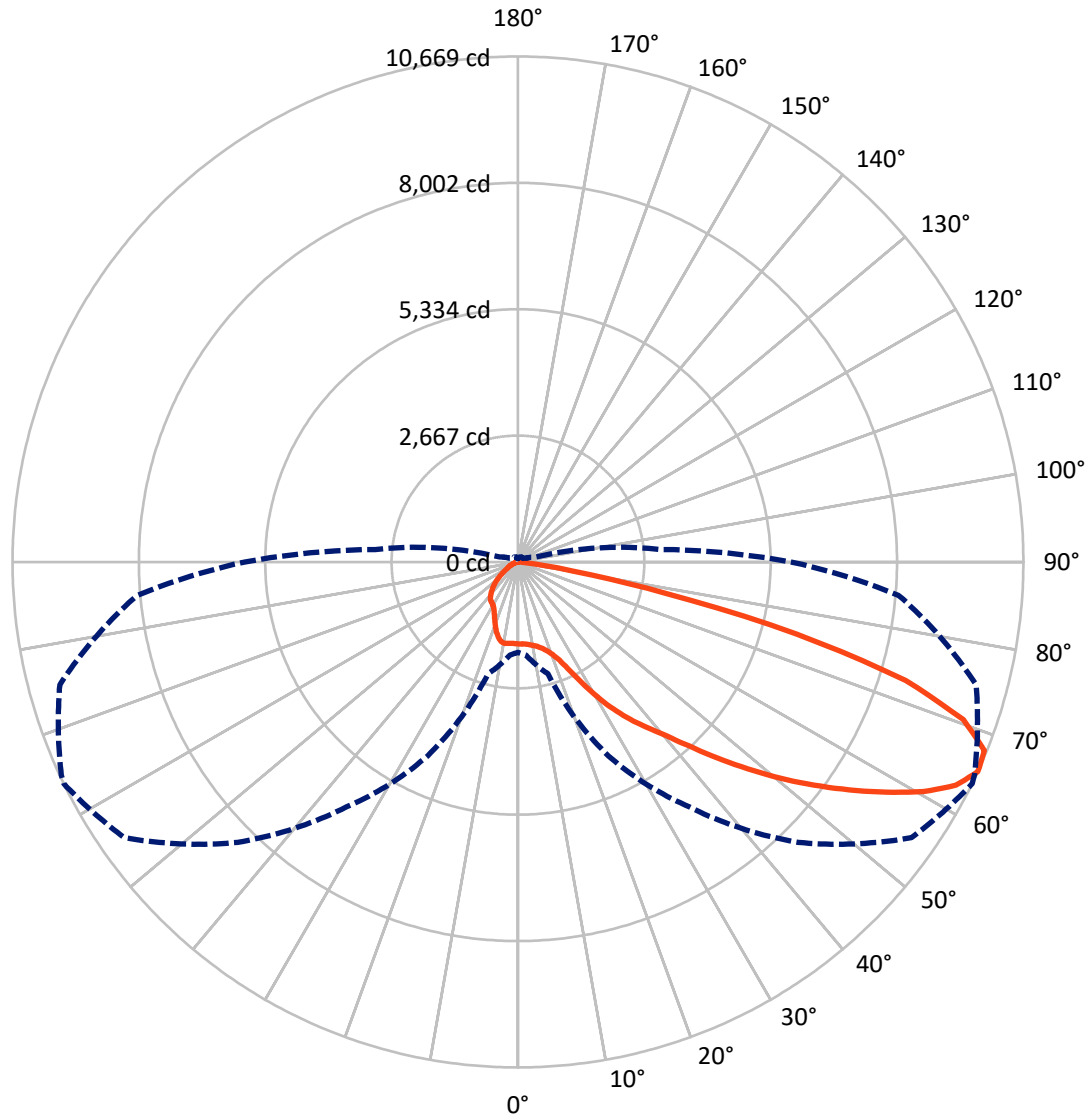
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	1987.9	0.0	1987.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	12877.1	0.0	12877.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	14865.0	0.0	14865.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.5	1.1
10°-20°	432.6	2.9
20°-30°	819.8	5.5
30°-40°	1658.9	11.2
40°-50°	2826.0	19.0
50°-60°	3843.2	25.9
60°-70°	3608.9	24.3
70°-80°	1445.9	9.7
80°-90°	70.1	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°	14865.0	100.0
0°-180°	14865.0	100.0

**Coefficient of Utilization**



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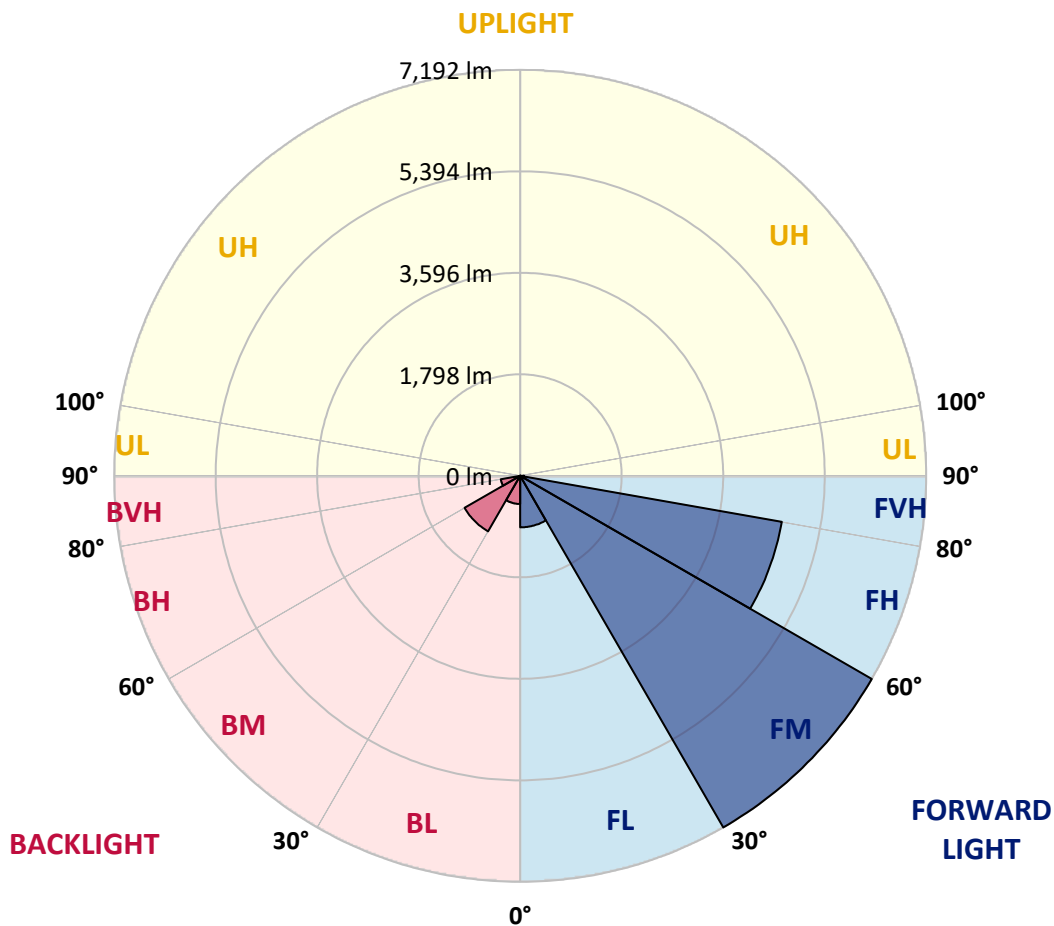
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.9	6.1			
FM (30°-60°)	7191.7	48.4			
FH (60°-80°)	4705.9	31.7			G2/5000
FVH (80°-90°)	66.6	0.4			G1/100
BL (0°-30°)	499.1	3.4	B1/500		
BM (30°-60°)	1136.5	7.6	B2/2500		
BH (60°-80°)	348.9	2.3	B1/500		G1/500
BVH (80°-90°)	3.4	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-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0
2.5°	1723.0	1734.9	1731.9	1729.0	1728.0	1730.0	1730.9	1730.0	1730.0	1730.0	1730.9
5°	1690.1	1700.1	1700.1	1707.0	1717.0	1729.0	1737.9	1739.9	1741.9	1744.9	1743.9
7.5°	1627.3	1635.3	1641.3	1664.2	1689.1	1721.0	1747.9	1761.8	1763.8	1774.8	1778.8
10°	1584.5	1594.4	1604.4	1628.3	1664.2	1712.0	1757.9	1791.7	1796.7	1822.6	1834.6
12.5°	1582.5	1592.4	1605.4	1631.3	1673.1	1724.0	1779.8	1828.6	1837.6	1875.4	1900.4
15°	1603.4	1615.4	1627.3	1659.2	1704.0	1765.8	1825.6	1886.4	1895.4	1949.2	1976.1
17.5°	1646.2	1662.2	1671.2	1703.0	1750.9	1819.6	1898.4	1968.1	1976.1	2038.9	2072.8
20°	1730.9	1749.9	1752.9	1778.8	1825.6	1899.4	1993.0	2079.7	2089.7	2161.4	2199.3
22.5°	1906.3	1933.2	1909.3	1922.3	1964.1	2037.9	2139.5	2249.1	2263.1	2344.8	2378.7
25°	2215.3	2253.1	2191.3	2169.4	2187.4	2264.1	2391.6	2530.2	2546.1	2611.9	2628.8
27.5°	2822.1	2773.3	2679.6	2587.9	2534.1	2578.0	2721.5	2892.9	2912.8	2976.6	2956.7
30°	3488.8	3445.9	3319.4	3116.1	2988.5	2981.6	3114.1	3305.4	3328.4	3389.1	3328.4
32.5°	4156.5	4115.6	3978.1	3728.0	3506.7	3397.1	3488.8	3701.1	3713.0	3751.9	3662.2
35°	4813.2	4771.3	4633.8	4377.7	4105.6	3856.5	3838.6	4077.7	4081.7	4122.6	3989.1
37.5°	5473.9	5439.0	5292.5	5041.4	4773.3	4429.5	4263.1	4434.5	4439.5	4479.3	4340.8
40°	5945.2	5960.2	5859.5	5665.2	5435.0	5059.3	4739.4	4814.2	4784.3	4851.0	4768.3
42.5°	6349.8	6379.7	6292.0	6194.3	6060.8	5730.0	5329.4	5316.4	5268.6	5304.5	5218.8
45°	6699.6	6724.5	6645.8	6622.8	6619.9	6387.7	5974.1	5896.4	5829.6	5822.6	5720.0
47.5°	6828.1	6876.0	6909.8	6986.6	7136.0	7038.4	6640.8	6520.2	6445.5	6390.7	6228.2
50°	6877.0	6927.8	7043.4	7266.6	7620.4	7662.2	7304.5	7168.9	7077.3	6977.6	6738.4
52.5°	6811.2	6901.9	7057.3	7433.0	7946.2	8162.5	7941.2	7822.6	7718.0	7555.6	7200.8
55°	6423.5	6514.2	6832.1	7431.0	8108.6	8513.2	8543.1	8490.3	8372.7	8116.6	7574.5
57.5°	5606.4	5740.9	6244.2	7177.9	8105.7	8815.2	9133.1	9170.9	9039.4	8672.7	7868.5
60°	4474.4	4656.7	5270.6	6616.9	7855.5	8978.6	9650.3	9839.6	9700.1	9220.8	8106.7
62.5°	3122.1	3333.3	3914.3	5737.9	7283.5	8861.0	10027.9	10377.7	10272.1	9711.0	8198.3
65°	1904.3	1972.1	2440.5	4515.2	6310.9	8368.7	10144.5	10668.7	10633.8	10011.0	8062.8
67.5°	1268.6	1325.4	1459.9	3096.2	4898.9	7385.2	9865.5	10617.9	10627.8	9962.2	7566.5
70°	764.3	813.2	900.8	1800.7	3174.9	5845.6	9001.5	9970.1	10027.9	9309.4	6625.8
72.5°	314.9	347.8	427.5	816.1	1644.3	3710.0	7167.9	8560.1	8694.6	7827.6	5085.2
75°	178.4	195.3	251.1	409.6	713.5	1729.0	4341.8	6076.7	6275.1	5395.1	3059.3
77.5°	118.6	126.6	162.4	265.1	401.6	589.9	1855.5	3165.9	3544.6	2946.7	1324.4
80°	79.7	86.7	111.6	177.4	261.1	253.1	590.9	1172.9	1443.0	1012.5	322.9
82.5°	53.8	54.8	79.7	116.6	165.4	122.6	174.4	364.7	458.4	293.0	122.6
85°	30.9	29.9	58.8	67.8	73.7	50.8	52.8	109.6	143.5	123.6	69.8
87.5°	4.0	6.0	22.9	17.9	10.0	11.0	11.0	18.9	27.9	29.9	14.9
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°	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0	1729.0
2.5°	1730.9	1730.0	1727.0	1724.0	1717.0	1713.0	1715.0	1713.0	1712.0	1713.0	1717.0
5°	1743.9	1740.9	1732.9	1723.0	1709.0	1692.1	1681.1	1665.2	1650.2	1641.3	1643.3
7.5°	1778.8	1775.8	1764.8	1736.9	1692.1	1621.3	1556.6	1499.8	1456.9	1432.0	1433.0
10°	1834.6	1829.6	1812.7	1750.9	1633.3	1478.8	1350.3	1243.7	1173.9	1141.0	1138.0
12.5°	1900.4	1894.4	1864.5	1737.9	1521.7	1280.5	1103.1	984.6	919.8	890.9	887.9
15°	1978.1	1970.1	1911.3	1676.1	1359.2	1061.3	898.9	810.2	768.3	742.4	743.4
17.5°	2074.7	2060.8	1946.2	1583.5	1182.9	893.9	773.3	706.5	669.7	644.7	642.8
20°	2200.3	2177.4	1974.1	1472.8	1020.4	788.2	688.6	632.8	604.9	583.0	579.0
22.5°	2375.7	2342.8	2008.0	1353.3	905.8	715.5	625.8	585.0	562.0	537.1	533.1
25°	2592.9	2554.1	2049.8	1242.7	827.1	652.7	580.0	546.1	519.2	490.3	487.3
27.5°	2896.9	2827.1	2099.7	1152.0	759.3	598.9	538.1	500.3	469.4	445.4	440.5
30°	3235.7	3121.1	2143.5	1097.2	697.6	549.1	483.3	445.4	416.5	399.6	396.6
32.5°	3556.6	3401.1	2172.4	1073.2	641.8	492.3	423.5	382.7	360.7	355.8	358.7
35°	3859.5	3654.2	2169.4	1050.3	591.9	435.5	364.7	322.9	305.9	308.9	308.9
37.5°	4208.3	3924.3	2148.5	1014.5	551.1	383.7	313.9	277.0	262.1	263.1	267.1
40°	4613.9	4236.2	2135.5	946.7	506.2	335.8	272.0	242.2	231.2	227.2	226.2
42.5°	5046.4	4538.1	2137.5	870.0	450.4	293.0	243.1	218.2	208.3	205.3	204.3
45°	5480.8	4826.1	2140.5	790.2	391.6	260.1	222.2	201.3	195.3	191.3	191.3
47.5°	5889.4	5071.3	2084.7	704.5	333.8	235.2	205.3	191.3	186.3	181.4	181.4
50°	6270.1	5234.7	1950.2	604.9	288.0	215.2	192.3	182.4	177.4	172.4	172.4
52.5°	6566.0	5260.6	1728.0	502.2	256.1	200.3	184.4	175.4	169.4	164.4	163.4
55°	6697.6	5098.2	1412.1	406.6	231.2	187.3	176.4	167.4	160.4	155.5	154.5
57.5°	6663.7	4756.4	1101.1	326.9	207.3	174.4	166.4	160.4	152.5	144.5	143.5
60°	6497.3	4299.0	830.1	272.0	185.4	160.4	155.5	150.5	139.5	127.6	125.6
62.5°	6209.3	3724.0	591.9	225.2	161.4	144.5	142.5	138.5	122.6	100.6	98.7
65°	5768.8	3025.4	398.6	187.3	138.5	126.6	127.6	120.6	99.7	74.7	72.7
67.5°	5125.1	2212.3	255.1	153.5	115.6	105.6	106.6	102.6	84.7	63.8	60.8
70°	4304.9	1464.9	166.4	116.6	92.7	81.7	87.7	88.7	71.7	51.8	49.8
72.5°	3156.0	865.0	116.6	86.7	67.8	56.8	71.7	73.7	57.8	38.9	36.9
75°	1798.7	410.6	87.7	62.8	41.9	39.9	55.8	55.8	39.9	25.9	23.9
77.5°	755.4	171.4	61.8	40.9	23.9	22.9	37.9	34.9	19.9	12.0	12.0
80°	218.2	76.7	32.9	19.9	10.0	9.0	14.9	11.0	5.0	2.0	2.0
82.5°	85.7	33.9	13.0	8.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0
85°	50.8	14.0	6.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	3.0	2.0	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)