

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: P884928

Luminaire Tested: **NAV-SB6A-722-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884928
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-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 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: 17016 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

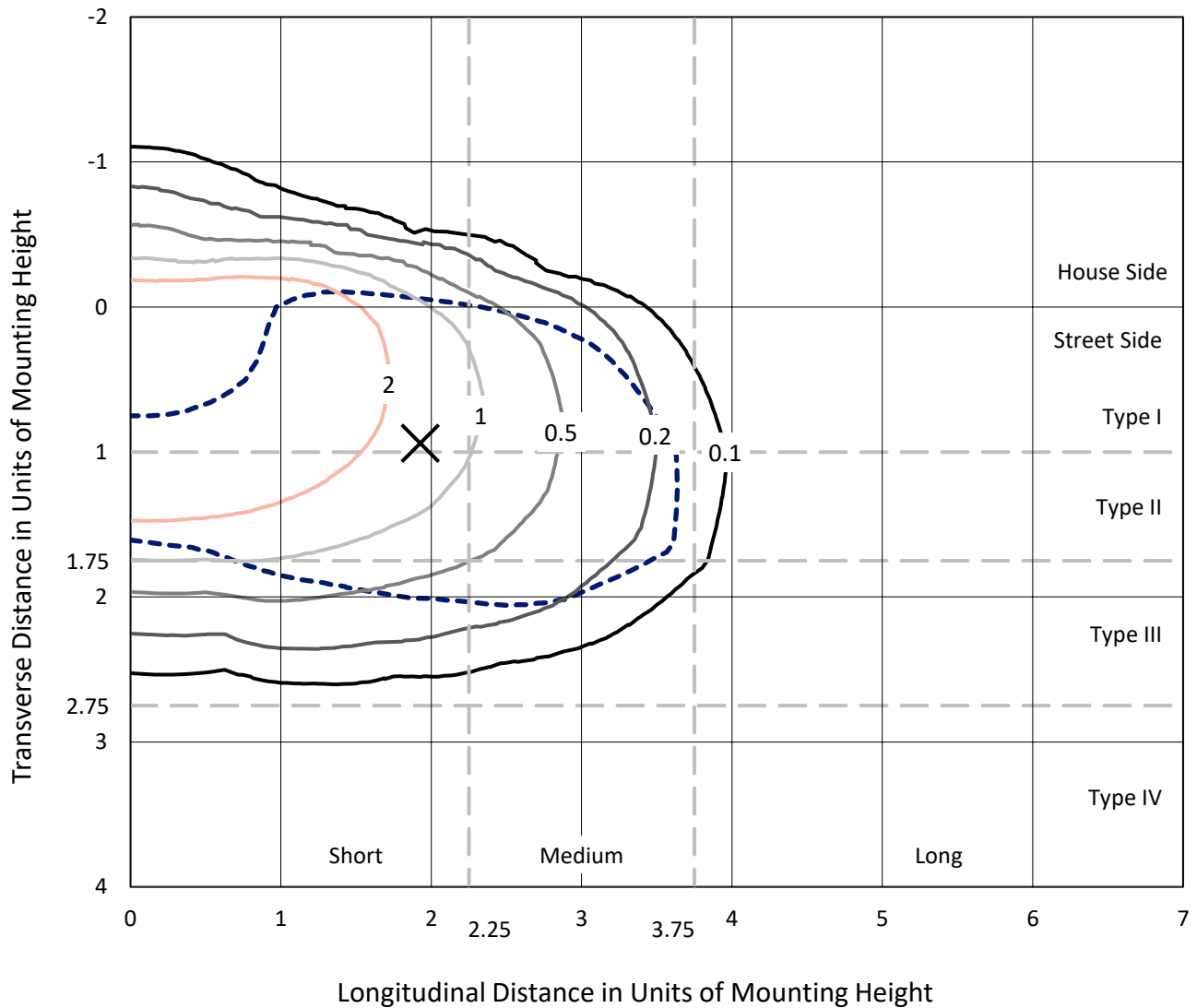
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

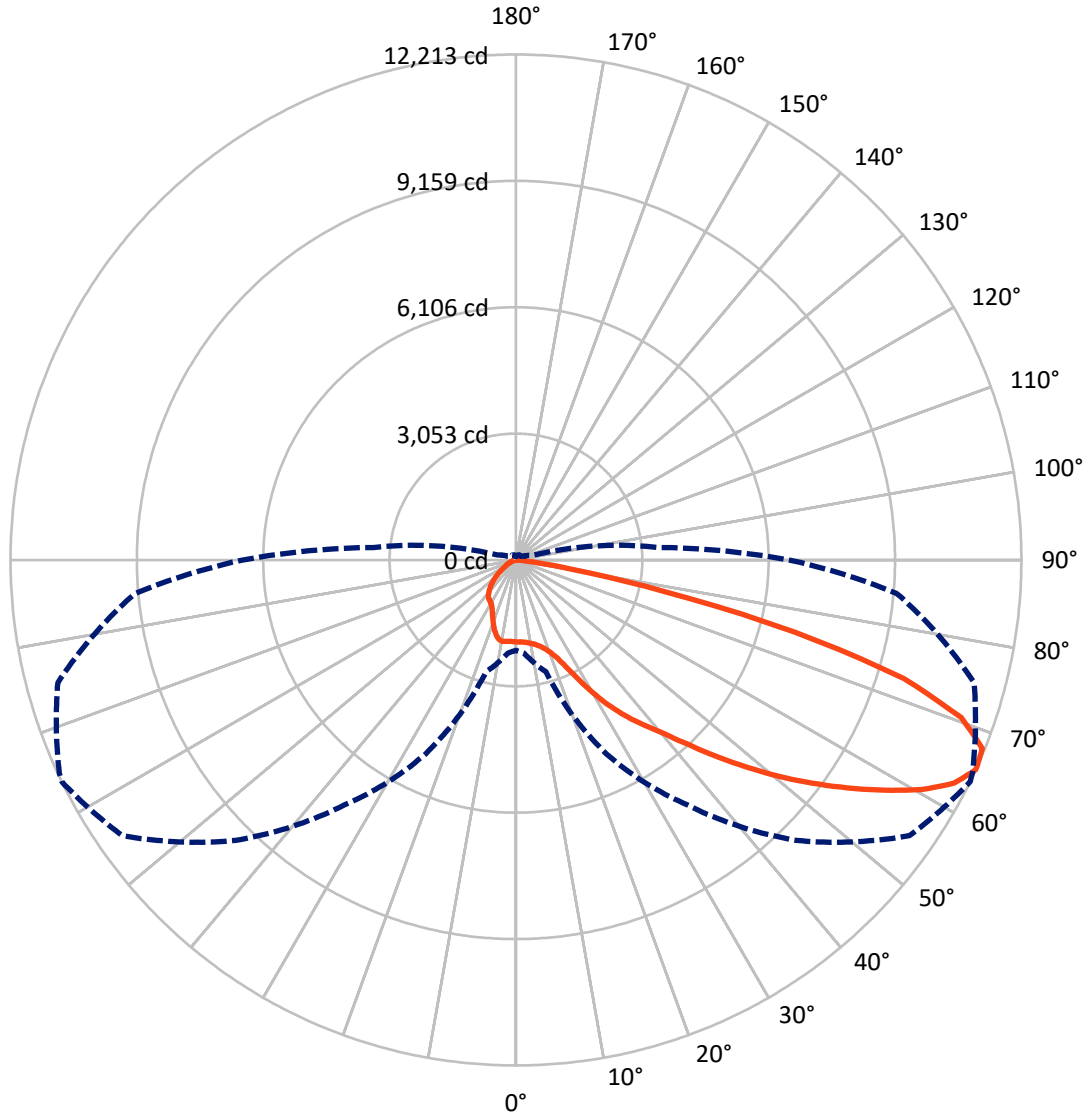
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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
House Side	Lumens	2275.6	0.0	2275.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	14740.4	0.0	14740.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	17016.0	0.0	17016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	1.1
10°-20°	495.3	2.9
20°-30°	938.5	5.5
30°-40°	1899.0	11.2
40°-50°	3235.0	19.0
50°-60°	4399.3	25.9
60°-70°	4131.2	24.3
70°-80°	1655.1	9.7
80°-90°	80.2	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°	17016.0	100.0
0°-180°	17016.0	100.0

Coefficient of Utilization



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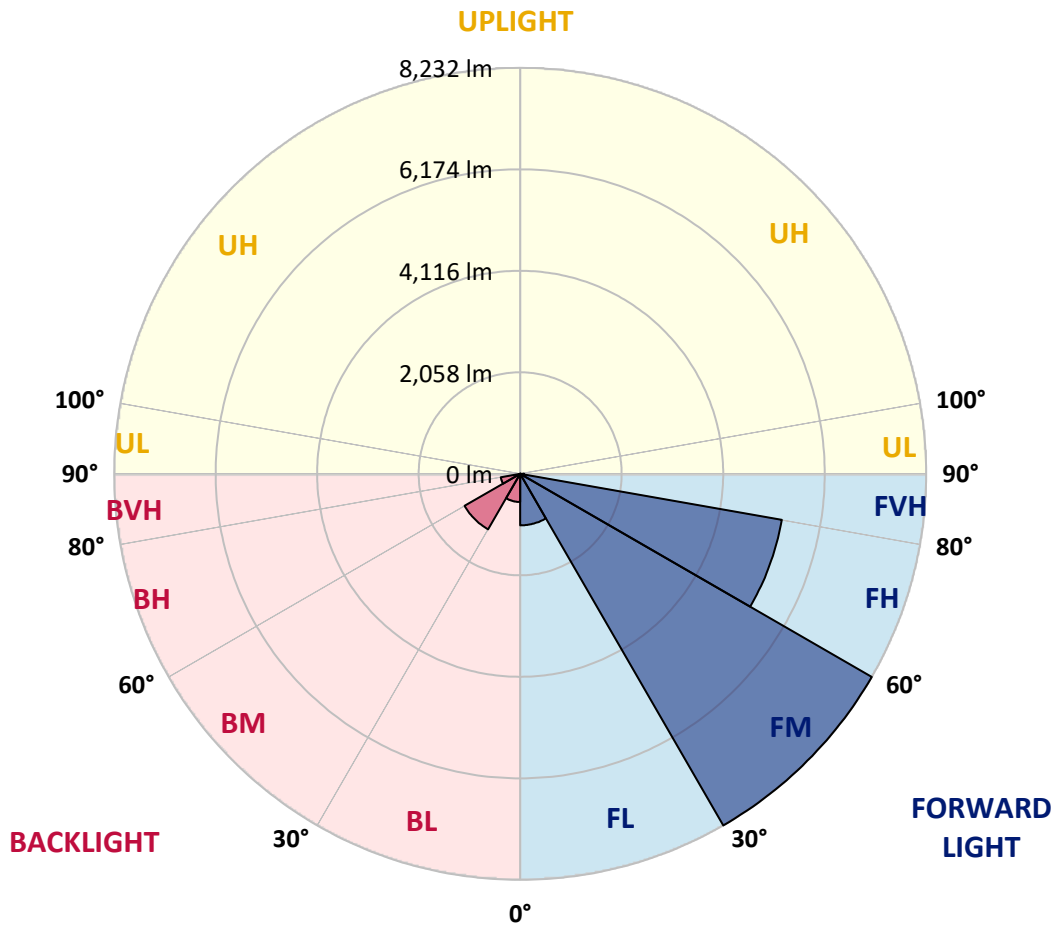
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1045.0	6.1			
FM (30°-60°)	8232.3	48.4			
FH (60°-80°)	5386.9	31.7			G3/7500
FVH (80°-90°)	76.3	0.4			G1/100
BL (0°-30°)	571.3	3.4	B2/1000		
BM (30°-60°)	1300.9	7.6	B2/2500		
BH (60°-80°)	399.4	2.3	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1
2.5°	1972.3	1986.0	1982.6	1979.1	1978.0	1980.3	1981.4	1980.3	1980.3	1980.3	1981.4
5°	1934.6	1946.1	1946.1	1954.0	1965.4	1979.1	1989.4	1991.7	1994.0	1997.4	1996.2
7.5°	1862.8	1871.9	1878.8	1905.0	1933.5	1970.0	2000.8	2016.8	2019.1	2031.6	2036.2
10°	1813.7	1825.1	1836.5	1863.9	1905.0	1959.7	2012.2	2051.0	2056.7	2086.4	2100.1
12.5°	1811.5	1822.9	1837.7	1867.3	1915.3	1973.4	2037.3	2093.2	2103.5	2146.8	2175.3
15°	1835.4	1849.1	1862.8	1899.3	1950.6	2021.3	2089.8	2159.4	2169.6	2231.2	2262.0
17.5°	1884.5	1902.7	1913.0	1949.5	2004.2	2082.9	2173.1	2252.9	2262.0	2333.9	2372.7
20°	1981.4	2003.1	2006.5	2036.2	2089.8	2174.2	2281.4	2380.7	2392.1	2474.2	2517.6
22.5°	2182.2	2213.0	2185.6	2200.4	2248.3	2332.8	2449.1	2574.6	2590.6	2684.1	2722.9
25°	2535.8	2579.2	2508.4	2483.3	2503.9	2591.7	2737.7	2896.3	2914.5	2989.8	3009.2
27.5°	3230.5	3174.6	3067.4	2962.4	2900.8	2951.0	3115.3	3311.5	3334.3	3407.3	3384.5
30°	3993.6	3944.6	3799.7	3567.0	3421.0	3413.0	3564.7	3783.7	3810.0	3879.6	3810.0
32.5°	4757.9	4711.1	4553.7	4267.4	4014.2	3888.7	3993.6	4236.6	4250.3	4294.8	4192.1
35°	5509.6	5461.7	5304.3	5011.2	4699.7	4414.6	4394.0	4667.8	4672.4	4719.1	4566.3
37.5°	6265.9	6226.0	6058.3	5770.9	5464.0	5070.5	4880.0	5076.2	5081.9	5127.5	4968.9
40°	6805.5	6822.6	6707.4	6485.0	6221.5	5791.4	5425.2	5510.8	5476.6	5553.0	5458.3
42.5°	7268.6	7302.8	7202.5	7090.7	6937.8	6559.1	6100.5	6085.7	6031.0	6072.0	5973.9
45°	7669.0	7697.5	7607.4	7581.2	7577.8	7312.0	6838.6	6749.6	6673.2	6665.2	6547.7
47.5°	7816.2	7870.9	7909.7	7997.5	8168.6	8056.9	7601.7	7463.7	7378.1	7315.4	7129.5
50°	7872.1	7930.2	8062.6	8318.1	8723.0	8770.9	8361.4	8206.3	8101.3	7987.3	7713.5
52.5°	7796.8	7900.6	8078.5	8508.6	9096.0	9343.6	9090.3	8954.6	8834.8	8648.9	8242.8
55°	7353.0	7456.8	7820.7	8506.3	9282.0	9745.1	9779.3	9718.9	9584.3	9291.1	8670.6
57.5°	6417.7	6571.6	7147.7	8216.6	9278.6	10090.7	10454.6	10498.0	10347.4	9927.6	9007.1
60°	5121.8	5330.6	6033.2	7574.3	8992.2	10277.8	11046.7	11263.4	11103.7	10555.0	9279.7
62.5°	3573.9	3815.7	4480.7	6568.2	8337.5	10143.2	11479.0	11879.4	11758.5	11116.3	9384.6
65°	2179.9	2257.5	2793.6	5168.6	7224.1	9579.7	11612.5	12212.5	12172.6	11459.6	9229.5
67.5°	1452.1	1517.1	1671.1	3544.2	5607.7	8453.8	11293.1	12154.3	12165.7	11403.7	8661.4
70°	874.9	930.8	1031.2	2061.3	3634.3	6691.4	10304.1	11412.8	11479.0	10656.5	7584.6
72.5°	360.5	398.1	489.4	934.2	1882.2	4246.9	8205.2	9798.7	9952.7	8960.3	5821.1
75°	204.2	223.6	287.5	468.8	816.8	1979.1	4970.1	6956.1	7183.1	6175.8	3502.0
77.5°	135.7	144.9	185.9	303.4	459.7	675.3	2124.0	3624.0	4057.5	3373.1	1516.0
80°	91.3	99.2	127.8	203.0	298.9	289.7	676.4	1342.6	1651.8	1159.0	369.6
82.5°	61.6	62.7	91.3	133.5	189.4	140.3	199.6	417.5	524.7	335.4	140.3
85°	35.4	34.2	67.3	77.6	84.4	58.2	60.5	125.5	164.3	141.4	79.8
87.5°	4.6	6.8	26.2	20.5	11.4	12.5	12.5	21.7	31.9	34.2	17.1
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°	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1
2.5°	1981.4	1980.3	1976.9	1973.4	1965.4	1960.9	1963.2	1960.9	1959.7	1960.9	1965.4
5°	1996.2	1992.8	1983.7	1972.3	1956.3	1936.9	1924.4	1906.1	1889.0	1878.8	1881.0
7.5°	2036.2	2032.8	2020.2	1988.3	1936.9	1855.9	1781.8	1716.8	1667.7	1639.2	1640.3
10°	2100.1	2094.3	2075.0	2004.2	1869.6	1692.8	1545.7	1423.6	1343.8	1306.1	1302.7
12.5°	2175.3	2168.5	2134.3	1989.4	1741.9	1465.8	1262.8	1127.0	1052.9	1019.8	1016.4
15°	2264.3	2255.2	2187.9	1918.7	1555.9	1214.9	1028.9	927.4	879.5	849.8	851.0
17.5°	2375.0	2359.0	2227.8	1812.6	1354.0	1023.2	885.2	808.8	766.6	738.0	735.8
20°	2518.7	2492.5	2259.8	1686.0	1168.1	902.3	788.2	724.4	692.4	667.3	662.8
22.5°	2719.5	2681.8	2298.5	1549.1	1036.9	819.0	716.4	669.6	643.4	614.8	610.3
25°	2968.1	2923.6	2346.4	1422.5	946.8	747.2	663.9	625.1	594.3	561.2	557.8
27.5°	3316.1	3236.2	2403.5	1318.7	869.2	685.6	616.0	572.6	537.3	509.9	504.2
30°	3703.9	3572.7	2453.7	1255.9	798.5	628.5	553.2	509.9	476.8	457.4	454.0
32.5°	4071.2	3893.3	2486.8	1228.5	734.6	563.5	484.8	438.0	412.9	407.2	410.7
35°	4418.0	4183.0	2483.3	1202.3	677.6	498.5	417.5	369.6	350.2	353.6	353.6
37.5°	4817.2	4492.1	2459.4	1161.2	630.8	439.2	359.3	317.1	300.0	301.1	305.7
40°	5281.5	4849.2	2444.5	1083.7	579.5	384.4	311.4	277.2	264.6	260.1	258.9
42.5°	5776.6	5194.8	2446.8	995.8	515.6	335.4	278.3	249.8	238.4	235.0	233.8
45°	6273.9	5524.5	2450.3	904.6	448.3	297.7	254.4	230.4	223.6	219.0	219.0
47.5°	6741.6	5805.1	2386.4	806.5	382.1	269.2	235.0	219.0	213.3	207.6	207.6
50°	7177.4	5992.2	2232.4	692.4	329.7	246.4	220.2	208.8	203.0	197.3	197.3
52.5°	7516.2	6021.8	1978.0	574.9	293.2	229.3	211.0	200.8	193.9	188.2	187.1
55°	7666.7	5835.9	1616.4	465.4	264.6	214.5	201.9	191.6	183.7	178.0	176.8
57.5°	7627.9	5444.6	1260.5	374.2	237.3	199.6	190.5	183.7	174.5	165.4	164.3
60°	7437.5	4921.0	950.2	311.4	212.2	183.7	178.0	172.2	159.7	146.0	143.7
62.5°	7107.8	4262.8	677.6	257.8	184.8	165.4	163.1	158.6	140.3	115.2	112.9
65°	6603.6	3463.2	456.3	214.5	158.6	144.9	146.0	138.0	114.1	85.6	83.3
67.5°	5866.7	2532.4	292.0	175.7	132.3	120.9	122.1	117.5	97.0	73.0	69.6
70°	4927.9	1676.8	190.5	133.5	106.1	93.5	100.4	101.5	82.1	59.3	57.0
72.5°	3612.6	990.1	133.5	99.2	77.6	65.0	82.1	84.4	66.2	44.5	42.2
75°	2059.0	470.0	100.4	71.9	47.9	45.6	63.9	63.9	45.6	29.7	27.4
77.5°	864.7	196.2	70.7	46.8	27.4	26.2	43.3	39.9	22.8	13.7	13.7
80°	249.8	87.8	37.6	22.8	11.4	10.3	17.1	12.5	5.7	2.3	2.3
82.5°	98.1	38.8	14.8	9.1	4.6	4.6	2.3	0.0	0.0	0.0	0.0
85°	58.2	16.0	6.8	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.8	3.4	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)