

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: P883258

Luminaire Tested: **NAV-SB3C-735-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883258
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-735-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 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: 17617 lumens
Efficiency: N/A
Efficacy: 118.2 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

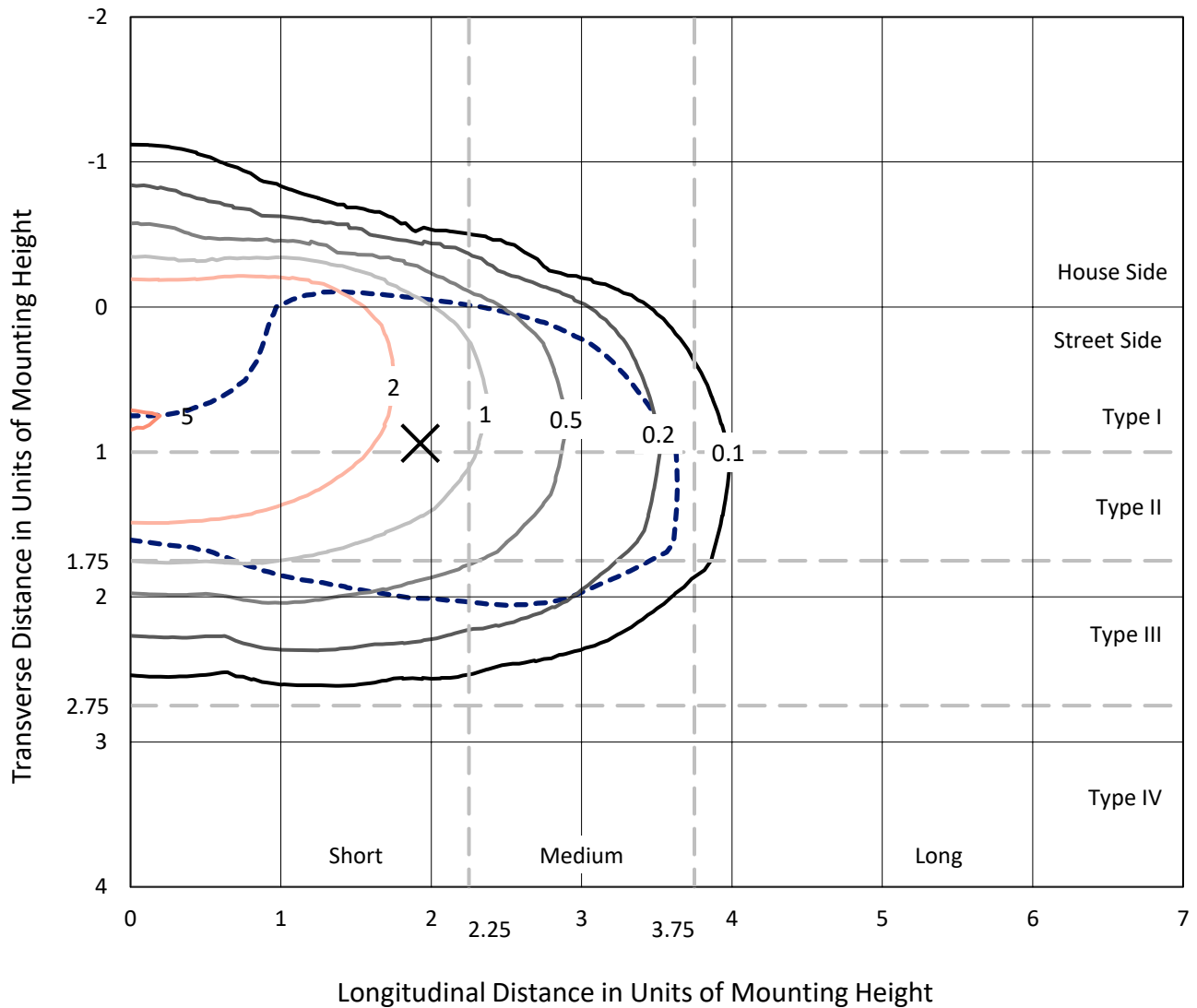
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

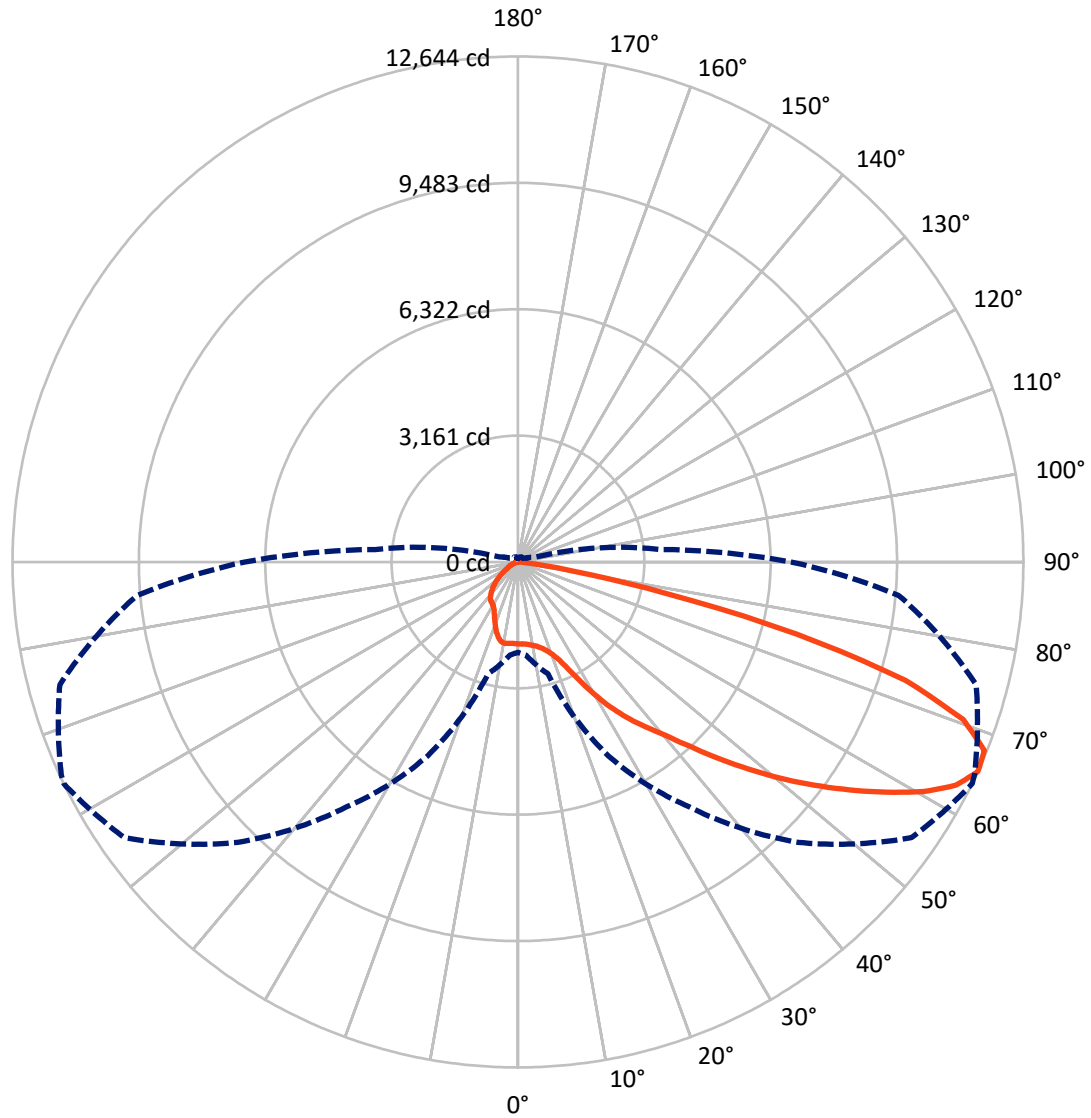
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	2355.9	0.0	2355.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15261.1	0.0	15261.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	17617.0	0.0	17617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	1.1
10°-20°	512.7	2.9
20°-30°	971.6	5.5
30°-40°	1966.1	11.2
40°-50°	3349.2	19.0
50°-60°	4554.7	25.9
60°-70°	4277.1	24.3
70°-80°	1713.6	9.7
80°-90°	83.0	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°	17617.0	100.0
0°-180°	17617.0	100.0

Coefficient of Utilization



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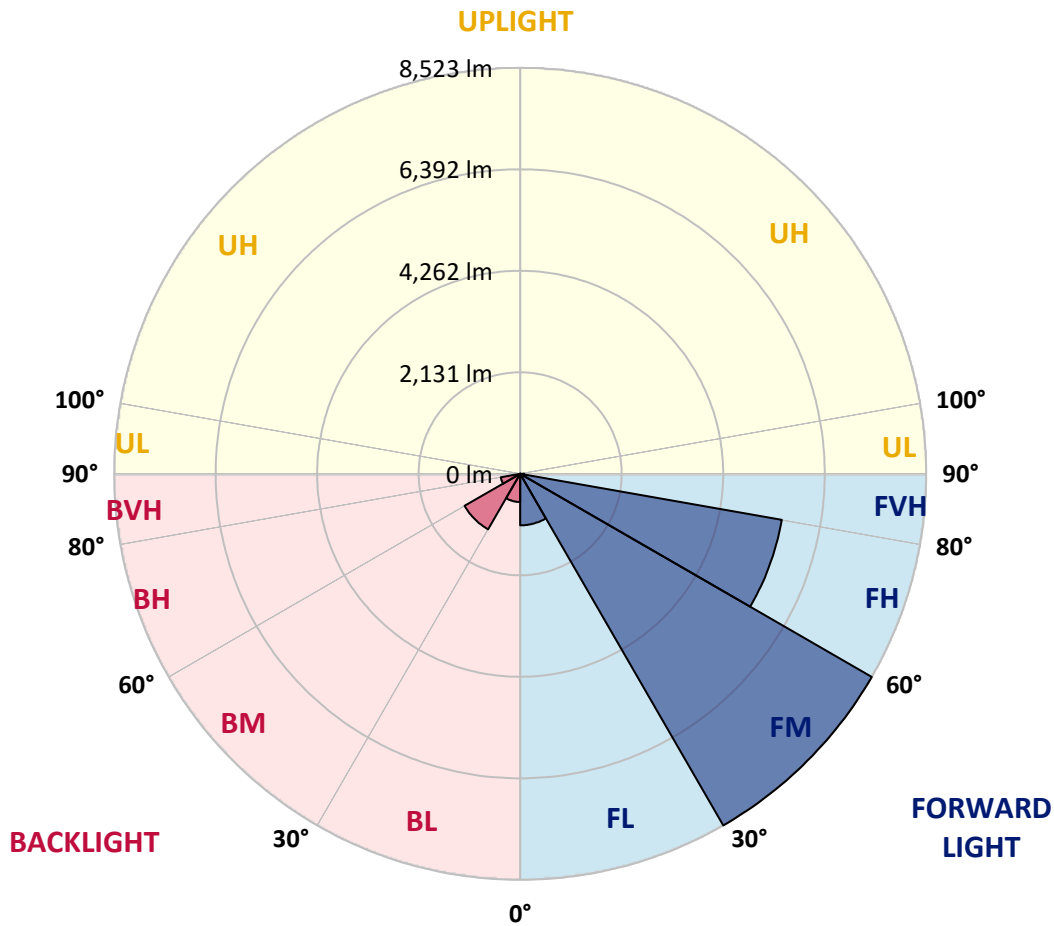
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1081.9	6.1			
FM (30°-60°)	8523.1	48.4			
FH (60°-80°)	5577.1	31.7			G3/7500
FVH (80°-90°)	79.0	0.4			G1/100
BL (0°-30°)	591.5	3.4	B2/1000		
BM (30°-60°)	1346.9	7.6	B2/2500		
BH (60°-80°)	413.5	2.3	B1/500		G1/500
BVH (80°-90°)	4.1	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°	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0
2.5°	2042.0	2056.1	2052.6	2049.0	2047.9	2050.2	2051.4	2050.2	2050.2	2050.2	2051.4
5°	2003.0	2014.8	2014.8	2023.1	2034.9	2049.0	2059.7	2062.0	2064.4	2067.9	2066.8
7.5°	1928.6	1938.0	1945.1	1972.3	2001.8	2039.6	2071.5	2088.0	2090.4	2103.4	2108.1
10°	1877.8	1889.6	1901.4	1929.8	1972.3	2029.0	2083.3	2123.4	2129.3	2160.1	2174.2
12.5°	1875.4	1887.2	1902.6	1933.3	1982.9	2043.1	2109.3	2167.1	2177.8	2222.6	2252.2
15°	1900.2	1914.4	1928.6	1966.4	2019.5	2092.7	2163.6	2235.6	2246.3	2310.0	2341.9
17.5°	1951.0	1969.9	1980.5	2018.3	2075.0	2156.5	2249.8	2332.5	2341.9	2416.3	2456.5
20°	2051.4	2073.8	2077.4	2108.1	2163.6	2251.0	2362.0	2464.8	2476.6	2561.6	2606.5
22.5°	2259.3	2291.1	2262.8	2278.2	2327.8	2415.2	2535.6	2665.5	2682.1	2778.9	2819.1
25°	2625.4	2670.2	2597.0	2571.0	2592.3	2683.2	2834.4	2998.6	3017.5	3095.4	3115.5
27.5°	3344.6	3286.7	3175.7	3067.1	3003.3	3055.3	3225.3	3428.5	3452.1	3527.7	3504.0
30°	4134.7	4083.9	3933.9	3693.0	3541.8	3533.6	3690.6	3917.4	3944.5	4016.6	3944.5
32.5°	4926.0	4877.5	4714.6	4418.1	4155.9	4026.0	4134.7	4386.2	4400.4	4446.5	4340.2
35°	5704.2	5654.6	5491.7	5188.1	4865.7	4570.5	4549.2	4832.7	4837.4	4885.8	4727.6
37.5°	6487.2	6445.9	6272.3	5974.7	5657.0	5249.6	5052.3	5255.5	5261.4	5308.6	5144.4
40°	7045.9	7063.6	6944.3	6714.0	6441.2	5996.0	5616.8	5705.4	5670.0	5749.1	5651.1
42.5°	7525.4	7560.8	7456.9	7341.1	7182.9	6790.8	6316.0	6300.7	6244.0	6286.5	6184.9
45°	7939.9	7969.4	7876.1	7848.9	7845.4	7570.2	7080.1	6988.0	6908.9	6900.6	6779.0
47.5°	8092.2	8148.9	8189.1	8280.0	8457.2	8341.4	7870.2	7727.3	7638.7	7573.8	7381.3
50°	8150.1	8210.3	8347.3	8611.9	9031.1	9080.7	8656.8	8496.1	8387.5	8269.4	7985.9
52.5°	8072.2	8179.6	8363.9	8809.1	9417.3	9673.6	9411.4	9270.9	9146.9	8954.4	8533.9
55°	7612.7	7720.2	8097.0	8806.7	9609.8	10089.3	10124.7	10062.1	9922.8	9619.3	8976.8
57.5°	6644.3	6803.8	7400.2	8506.8	9606.3	10447.2	10823.9	10868.8	10712.9	10278.3	9325.2
60°	5302.7	5518.8	6246.3	7841.9	9309.8	10640.8	11436.8	11661.2	11495.9	10927.8	9607.5
62.5°	3700.1	3950.5	4639.0	6800.2	8632.0	10501.5	11884.4	12299.0	12173.8	11508.9	9716.1
65°	2256.9	2337.2	2892.3	5351.1	7479.3	9918.1	12022.6	12643.8	12602.5	11864.4	9555.5
67.5°	1503.4	1570.7	1730.2	3669.4	5805.8	8752.4	11691.9	12583.6	12595.4	11806.5	8967.4
70°	905.8	963.7	1067.6	2134.1	3762.7	6927.8	10668.0	11815.9	11884.4	11032.9	7852.5
72.5°	373.2	412.2	506.7	967.2	1948.7	4396.9	8495.0	10144.8	10304.3	9276.8	6026.7
75°	211.4	231.5	297.6	485.4	845.6	2049.0	5145.6	7201.8	7436.8	6393.9	3625.7
77.5°	140.5	150.0	192.5	314.1	475.9	699.2	2199.0	3752.0	4200.8	3492.2	1569.6
80°	94.5	102.7	132.3	210.2	309.4	300.0	700.3	1390.0	1710.1	1199.9	382.6
82.5°	63.8	65.0	94.5	138.2	196.0	145.3	206.7	432.2	543.3	347.2	145.3
85°	36.6	35.4	69.7	80.3	87.4	60.2	62.6	129.9	170.1	146.4	82.7
87.5°	4.7	7.1	27.2	21.3	11.8	13.0	13.0	22.4	33.1	35.4	17.7
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°	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0	2049.0
2.5°	2051.4	2050.2	2046.7	2043.1	2034.9	2030.1	2032.5	2030.1	2029.0	2030.1	2034.9
5°	2066.8	2063.2	2053.8	2042.0	2025.4	2005.3	1992.4	1973.5	1955.7	1945.1	1947.5
7.5°	2108.1	2104.5	2091.6	2058.5	2005.3	1921.5	1844.7	1777.4	1726.6	1697.1	1698.3
10°	2174.2	2168.3	2148.2	2075.0	1935.7	1752.6	1600.3	1473.9	1391.2	1352.2	1348.7
12.5°	2252.2	2245.1	2209.7	2059.7	1803.4	1517.6	1307.4	1166.8	1090.1	1055.8	1052.3
15°	2344.3	2334.8	2265.2	1986.4	1610.9	1257.8	1065.3	960.2	910.6	879.8	881.0
17.5°	2458.8	2442.3	2306.5	1876.6	1401.9	1059.4	916.5	837.3	793.6	764.1	761.7
20°	2607.7	2580.5	2339.6	1745.5	1209.3	934.2	816.1	749.9	716.9	690.9	686.2
22.5°	2815.5	2776.5	2379.7	1603.8	1073.5	848.0	741.7	693.2	666.1	636.6	631.8
25°	3073.0	3026.9	2429.3	1472.7	980.2	773.6	687.3	647.2	615.3	581.1	577.5
27.5°	3433.2	3350.5	2488.4	1365.2	899.9	709.8	637.7	592.9	556.3	527.9	522.0
30°	3834.7	3698.9	2540.3	1300.3	826.7	650.7	572.8	527.9	493.7	473.6	470.0
32.5°	4215.0	4030.8	2574.6	1271.9	760.6	583.4	501.9	453.5	427.5	421.6	425.2
35°	4574.0	4330.7	2571.0	1244.8	701.5	516.1	432.2	382.6	362.6	366.1	366.1
37.5°	4987.4	4650.8	2546.2	1202.3	653.1	454.7	372.0	328.3	310.6	311.8	316.5
40°	5468.0	5020.4	2530.9	1122.0	599.9	398.0	322.4	287.0	274.0	269.3	268.1
42.5°	5980.6	5378.3	2533.3	1031.0	533.8	347.2	288.2	258.6	246.8	243.3	242.1
45°	6495.5	5719.6	2536.8	936.5	464.1	308.2	263.4	238.6	231.5	226.8	226.8
47.5°	6979.7	6010.1	2470.7	835.0	395.6	278.7	243.3	226.8	220.8	214.9	214.9
50°	7430.9	6203.8	2311.2	716.9	341.3	255.1	227.9	216.1	210.2	204.3	204.3
52.5°	7781.6	6234.5	2047.9	595.2	303.5	237.4	218.5	207.9	200.8	194.9	193.7
55°	7937.5	6042.0	1673.5	481.8	274.0	222.0	209.0	198.4	190.1	184.2	183.1
57.5°	7897.4	5636.9	1305.0	387.4	245.6	206.7	197.2	190.1	180.7	171.2	170.1
60°	7700.1	5094.8	983.8	322.4	219.7	190.1	184.2	178.3	165.3	151.2	148.8
62.5°	7358.8	4413.4	701.5	266.9	191.3	171.2	168.9	164.2	145.3	119.3	116.9
65°	6836.8	3585.5	472.4	222.0	164.2	150.0	151.2	142.9	118.1	88.6	86.2
67.5°	6073.9	2621.8	302.3	181.9	137.0	125.2	126.4	121.6	100.4	75.6	72.0
70°	5101.9	1736.1	197.2	138.2	109.8	96.8	103.9	105.1	85.0	61.4	59.1
72.5°	3740.2	1025.1	138.2	102.7	80.3	67.3	85.0	87.4	68.5	46.1	43.7
75°	2131.7	486.6	103.9	74.4	49.6	47.2	66.1	66.1	47.2	30.7	28.3
77.5°	895.2	203.1	73.2	48.4	28.3	27.2	44.9	41.3	23.6	14.2	14.2
80°	258.6	90.9	39.0	23.6	11.8	10.6	17.7	13.0	5.9	2.4	2.4
82.5°	101.6	40.2	15.4	9.4	4.7	4.7	2.4	0.0	0.0	0.0	0.0
85°	60.2	16.5	7.1	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.4	3.5	2.4	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)