

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: P883908

Luminaire Tested: **NAV-SB4C-722-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883908
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-SB4C-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 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: 18968 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

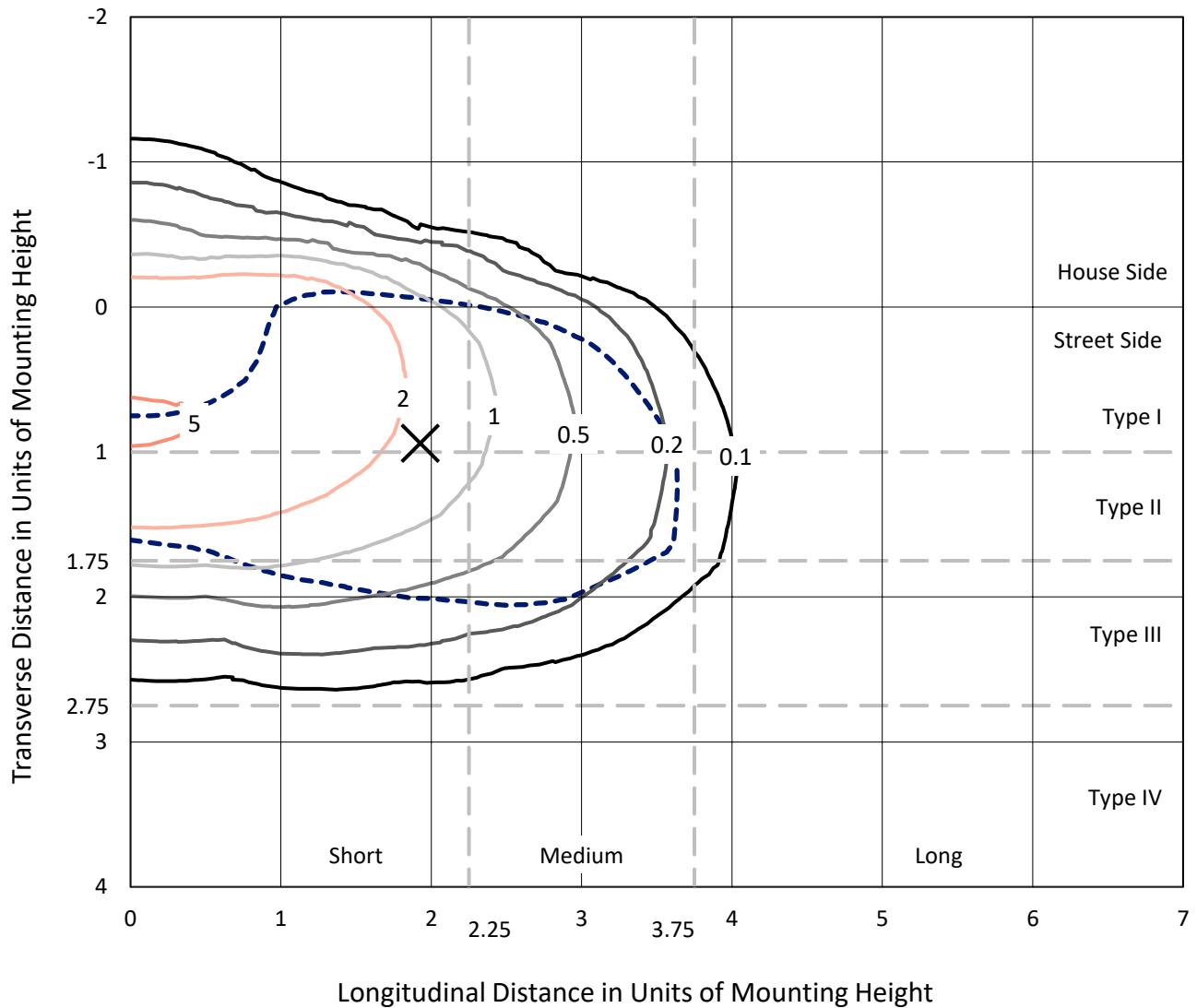
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

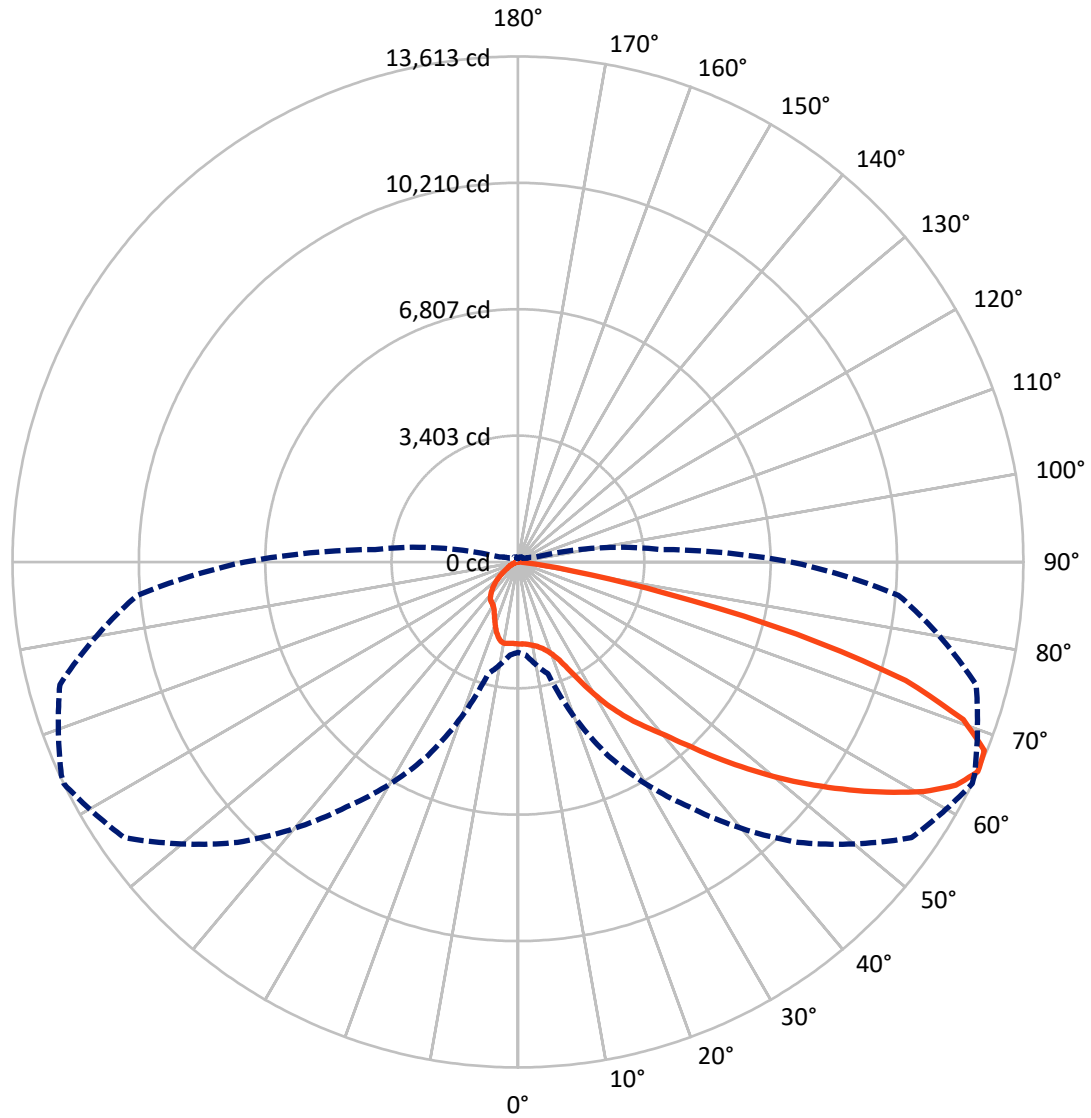
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2536.6	0.0	2536.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16431.4	0.0	16431.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	18968.0	0.0	18968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.5	1.1
10°-20°	552.1	2.9
20°-30°	1046.1	5.5
30°-40°	2116.8	11.2
40°-50°	3606.1	19.0
50°-60°	4904.0	25.9
60°-70°	4605.1	24.3
70°-80°	1845.0	9.7
80°-90°	89.4	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°	18968.0	100.0
0°-180°	18968.0	100.0

Coefficient of Utilization



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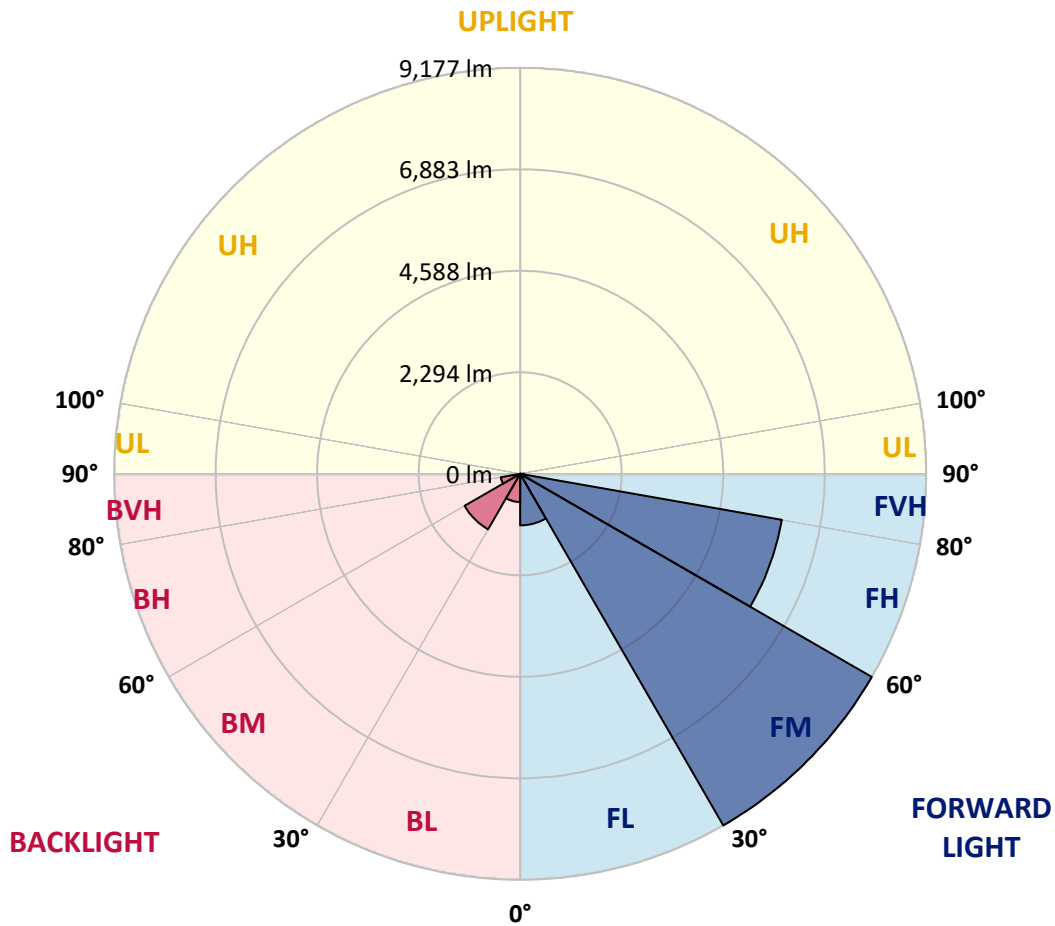
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1164.9	6.1			
FM (30°-60°)	9176.7	48.4			
FH (60°-80°)	6004.8	31.7			G3/7500
FVH (80°-90°)	85.0	0.4			G1/100
BL (0°-30°)	636.9	3.4	B2/1000		
BM (30°-60°)	1450.2	7.6	B2/2500		
BH (60°-80°)	445.2	2.3	B1/500		G1/500
BVH (80°-90°)	4.4	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2206.2	2206.2	2206.2	2206.2	2206.2	2206.2	2206.2	2206.2	2206.2	2206.2	2206.2
2.5°	2198.5	2213.8	2210.0	2206.2	2204.9	2207.4	2208.7	2207.4	2207.4	2207.4	2208.7
5°	2156.6	2169.3	2169.3	2178.2	2190.9	2206.2	2217.6	2220.2	2222.7	2226.5	2225.2
7.5°	2076.5	2086.6	2094.3	2123.5	2155.3	2196.0	2230.3	2248.1	2250.7	2264.7	2269.8
10°	2021.8	2034.5	2047.2	2077.7	2123.5	2184.6	2243.1	2286.3	2292.6	2325.7	2341.0
12.5°	2019.3	2032.0	2048.5	2081.6	2135.0	2199.8	2271.0	2333.3	2344.8	2393.1	2424.9
15°	2046.0	2061.2	2076.5	2117.2	2174.4	2253.2	2329.5	2407.1	2418.5	2487.2	2521.5
17.5°	2100.6	2121.0	2132.4	2173.1	2234.1	2321.9	2422.3	2511.4	2521.5	2601.6	2644.9
20°	2208.7	2232.9	2236.7	2269.8	2329.5	2423.6	2543.1	2653.8	2666.5	2758.0	2806.4
22.5°	2432.5	2466.8	2436.3	2452.9	2506.3	2600.4	2730.1	2869.9	2887.7	2992.0	3035.2
25°	2826.7	2875.0	2796.2	2768.2	2791.1	2889.0	3051.8	3228.5	3248.9	3332.8	3354.4
27.5°	3601.1	3538.8	3419.3	3302.3	3233.6	3289.6	3472.7	3691.4	3716.8	3798.2	3772.8
30°	4451.8	4397.1	4235.6	3976.2	3813.4	3804.5	3973.7	4217.8	4247.0	4324.6	4247.0
32.5°	5303.7	5251.6	5076.1	4756.9	4474.7	4334.8	4451.8	4722.6	4737.9	4787.5	4673.0
35°	6141.7	6088.3	5912.8	5586.0	5238.9	4921.0	4898.1	5203.3	5208.4	5260.5	5090.1
37.5°	6984.7	6940.2	6753.3	6432.9	6090.8	5652.1	5439.8	5658.5	5664.8	5715.7	5539.0
40°	7586.2	7605.3	7476.8	7228.9	6935.1	6455.8	6047.6	6143.0	6104.8	6190.0	6084.5
42.5°	8102.4	8140.6	8028.7	7904.1	7733.7	7311.5	6800.4	6783.8	6722.8	6768.6	6659.2
45°	8548.8	8580.6	8480.1	8450.9	8447.0	8150.8	7623.1	7523.9	7438.7	7429.8	7298.8
47.5°	8712.8	8773.8	8817.1	8915.0	9105.7	8981.1	8473.7	8319.9	8224.5	8154.6	7947.3
50°	8775.1	8840.0	8987.5	9272.3	9723.7	9777.1	9320.6	9147.7	9030.7	8903.5	8598.4
52.5°	8691.2	8806.9	9005.3	9484.6	10139.5	10415.4	10133.1	9981.8	9848.3	9641.0	9188.4
55°	8196.5	8312.3	8717.9	9482.1	10346.8	10863.0	10901.2	10833.8	10683.7	10356.9	9665.2
57.5°	7153.9	7325.5	7967.7	9159.1	10343.0	11248.3	11653.9	11702.3	11534.4	11066.5	10040.3
60°	5709.4	5942.1	6725.3	8443.2	10023.8	11456.9	12313.9	12555.5	12377.5	11765.8	10344.2
62.5°	3983.8	4253.4	4994.7	7321.7	9293.9	11306.8	12795.8	13242.1	13107.4	12391.5	10461.2
65°	2430.0	2516.4	3114.1	5761.5	8052.9	10678.7	12944.6	13613.4	13568.9	12774.2	10288.3
67.5°	1618.7	1691.2	1862.9	3950.8	6251.0	9423.6	12588.6	13548.6	13561.3	12711.9	9655.0
70°	975.3	1037.6	1149.5	2297.7	4051.2	7459.0	11486.1	12722.1	12795.8	11879.0	8454.7
72.5°	401.8	443.8	545.5	1041.4	2098.1	4734.1	9146.4	10922.8	11094.5	9988.2	6488.8
75°	227.6	249.2	320.4	522.6	910.4	2206.2	5540.2	7754.0	8007.1	6884.3	3903.7
77.5°	151.3	161.5	207.3	338.2	512.4	752.8	2367.7	4039.8	4523.0	3760.0	1689.9
80°	101.7	110.6	142.4	226.3	333.2	323.0	754.0	1496.6	1841.2	1291.9	412.0
82.5°	68.7	69.9	101.7	148.8	211.1	156.4	222.5	465.4	584.9	373.8	156.4
85°	39.4	38.1	75.0	86.5	94.1	64.9	67.4	139.9	183.1	157.7	89.0
87.5°	5.1	7.6	29.2	22.9	12.7	14.0	14.0	24.2	35.6	38.1	19.1
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°	2206.2	2206.2	2206.2	2206.2	2206.2	2206.2	2206.2	2206.2	2206.2	2206.2	2206.2
2.5°	2208.7	2207.4	2203.6	2199.8	2190.9	2185.8	2188.4	2185.8	2184.6	2185.8	2190.9
5°	2225.2	2221.4	2211.3	2198.5	2180.7	2159.1	2145.1	2124.8	2105.7	2094.3	2096.8
7.5°	2269.8	2265.9	2252.0	2216.3	2159.1	2068.8	1986.2	1913.7	1859.0	1827.2	1828.5
10°	2341.0	2334.6	2313.0	2234.1	2084.1	1887.0	1723.0	1586.9	1497.9	1455.9	1452.1
12.5°	2424.9	2417.3	2379.1	2217.6	1941.7	1634.0	1407.6	1256.3	1173.7	1136.8	1133.0
15°	2524.1	2513.9	2438.9	2138.8	1734.4	1354.2	1147.0	1033.8	980.4	947.3	948.6
17.5°	2647.4	2629.6	2483.4	2020.5	1509.4	1140.6	986.7	901.5	854.5	822.7	820.2
20°	2807.6	2778.4	2519.0	1879.4	1302.1	1005.8	878.7	807.4	771.8	743.9	738.8
22.5°	3031.4	2989.5	2562.2	1726.8	1155.9	913.0	798.5	746.4	717.2	685.4	680.3
25°	3308.6	3259.0	2615.6	1585.6	1055.4	832.9	740.1	696.8	662.5	625.6	621.8
27.5°	3696.5	3607.4	2679.2	1469.9	968.9	764.2	686.6	638.3	598.9	568.4	562.0
30°	4128.8	3982.6	2735.1	1400.0	890.1	700.6	616.7	568.4	531.5	509.9	506.1
32.5°	4538.2	4339.9	2772.0	1369.5	818.9	628.2	540.4	488.3	460.3	454.0	457.8
35°	4924.8	4662.9	2768.2	1340.2	755.3	555.7	465.4	412.0	390.4	394.2	394.2
37.5°	5369.8	5007.4	2741.5	1294.5	703.2	489.6	400.5	353.5	334.4	335.7	340.8
40°	5887.4	5405.4	2725.0	1208.0	646.0	428.5	347.1	309.0	295.0	289.9	288.6
42.5°	6439.2	5790.7	2727.5	1110.1	574.8	373.8	310.3	278.5	265.8	261.9	260.7
45°	6993.6	6158.2	2731.3	1008.4	499.7	331.9	283.6	256.9	249.2	244.1	244.1
47.5°	7515.0	6471.0	2660.1	899.0	426.0	300.1	261.9	244.1	237.8	231.4	231.4
50°	8000.7	6679.6	2488.5	771.8	367.5	274.7	245.4	232.7	226.3	220.0	220.0
52.5°	8378.4	6712.6	2204.9	640.9	326.8	255.6	235.2	223.8	216.2	209.8	208.5
55°	8546.2	6505.4	1801.8	518.8	295.0	239.1	225.1	213.6	204.7	198.4	197.1
57.5°	8503.0	6069.2	1405.1	417.1	264.5	222.5	212.4	204.7	194.6	184.4	183.1
60°	8290.6	5485.6	1059.2	347.1	236.5	204.7	198.4	192.0	178.0	162.8	160.2
62.5°	7923.2	4751.9	755.3	287.4	206.0	184.4	181.8	176.7	156.4	128.4	125.9
65°	7361.1	3860.5	508.6	239.1	176.7	161.5	162.8	153.9	127.2	95.4	92.8
67.5°	6539.7	2822.9	325.5	195.8	147.5	134.8	136.1	131.0	108.1	81.4	77.6
70°	5493.2	1869.2	212.4	148.8	118.3	104.3	111.9	113.2	91.6	66.1	63.6
72.5°	4027.1	1103.7	148.8	110.6	86.5	72.5	91.6	94.1	73.8	49.6	47.0
75°	2295.2	523.9	111.9	80.1	53.4	50.9	71.2	71.2	50.9	33.1	30.5
77.5°	963.9	218.7	78.8	52.1	30.5	29.2	48.3	44.5	25.4	15.3	15.3
80°	278.5	97.9	42.0	25.4	12.7	11.4	19.1	14.0	6.4	2.5	2.5
82.5°	109.4	43.2	16.5	10.2	5.1	5.1	2.5	0.0	0.0	0.0	0.0
85°	64.9	17.8	7.6	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.5	3.8	2.5	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)