

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: P884948

Luminaire Tested: **NAV-SB6A-730-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884948
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-730-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 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: 21020 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

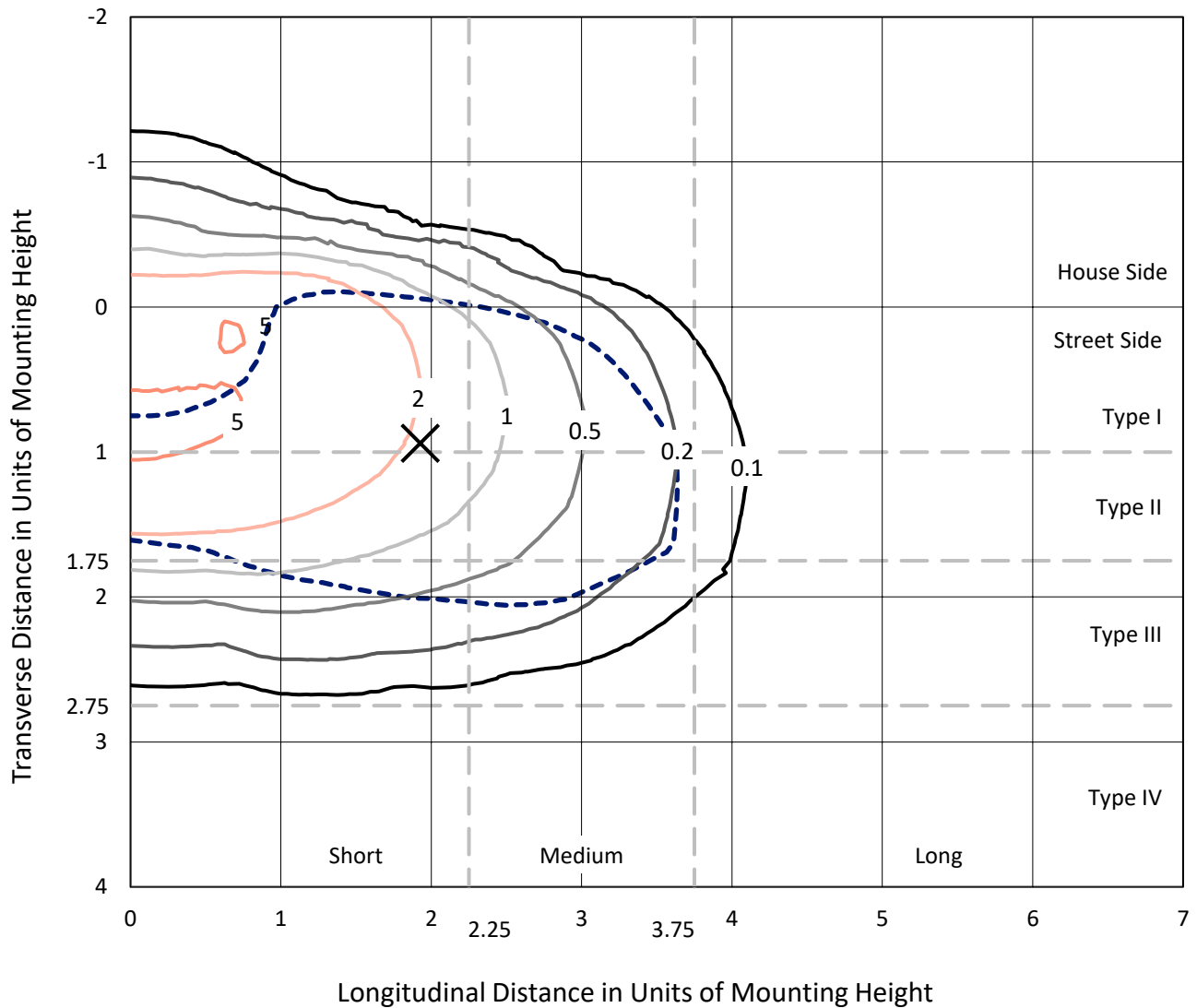
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

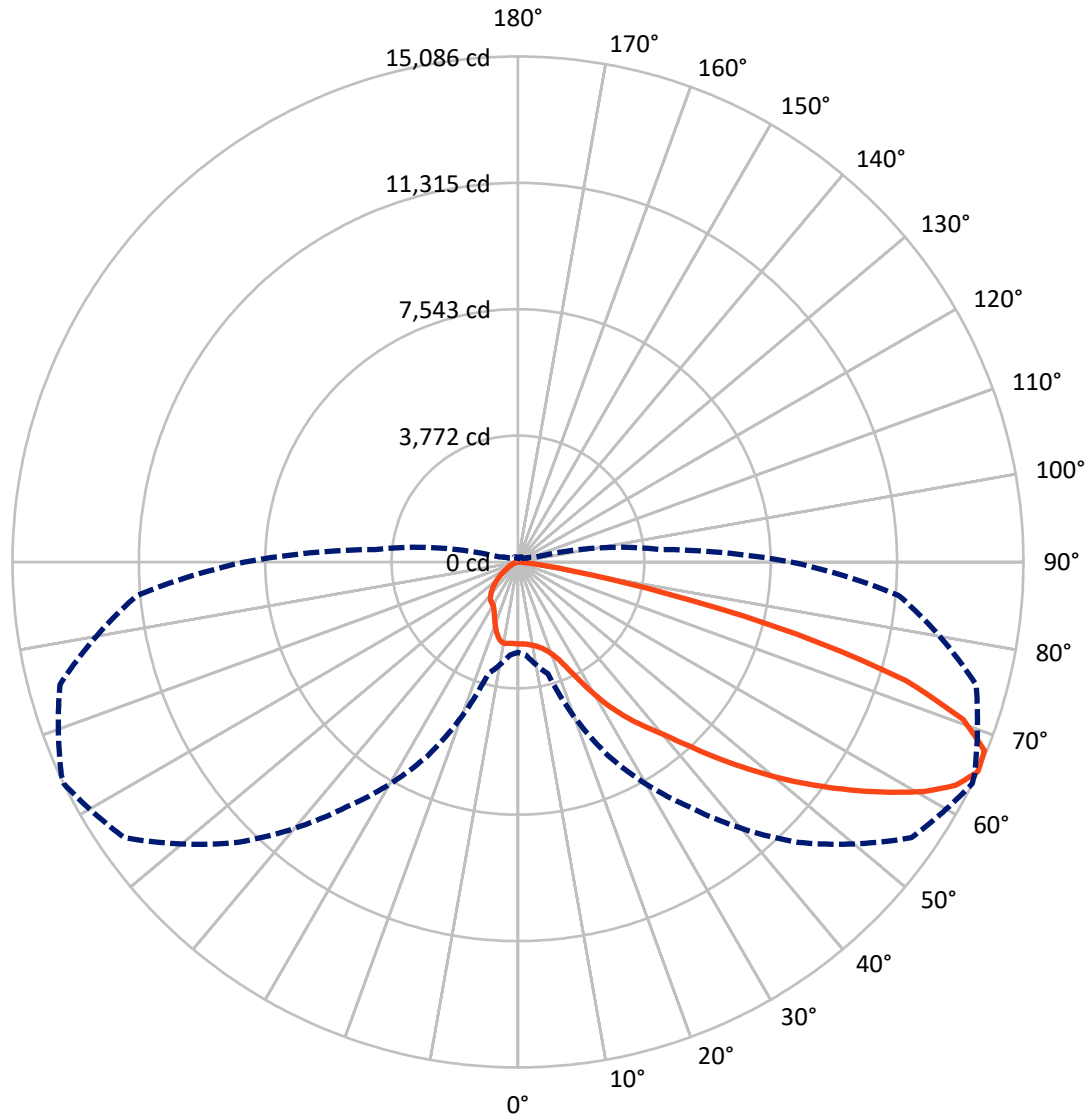
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2811.0	0.0	2811.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18209.0	0.0	18209.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	21020.0	0.0	21020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	1.1
10°-20°	611.8	2.9
20°-30°	1159.3	5.5
30°-40°	2345.8	11.2
40°-50°	3996.2	19.0
50°-60°	5434.5	25.9
60°-70°	5103.3	24.3
70°-80°	2044.6	9.7
80°-90°	99.0	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°	21020.0	100.0
0°-180°	21020.0	100.0

Coefficient of Utilization



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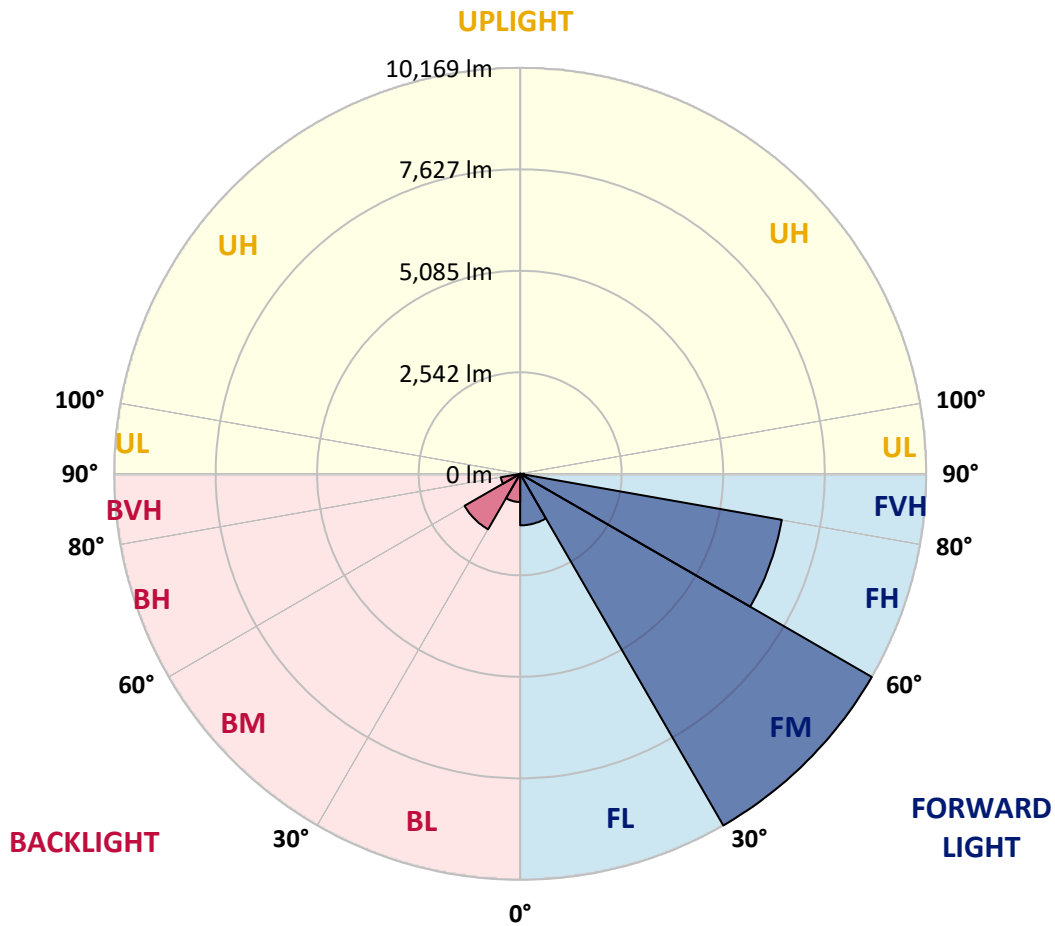
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1290.9	6.1			
FM (30°-60°)	10169.4	48.4			
FH (60°-80°)	6654.5	31.7			G3/7500
FVH (80°-90°)	94.2	0.4			G1/100
BL (0°-30°)	705.8	3.4	B2/1000		
BM (30°-60°)	1607.0	7.6	B2/2500		
BH (60°-80°)	493.4	2.3	B1/500		G1/500
BVH (80°-90°)	4.8	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°	2444.8	2444.8	2444.8	2444.8	2444.8	2444.8	2444.8	2444.8	2444.8	2444.8	2444.8
2.5°	2436.4	2453.3	2449.1	2444.8	2443.4	2446.3	2447.7	2446.3	2446.3	2446.3	2447.7
5°	2389.9	2404.0	2404.0	2413.8	2427.9	2444.8	2457.5	2460.3	2463.2	2467.4	2466.0
7.5°	2301.1	2312.4	2320.8	2353.3	2388.5	2433.6	2471.6	2491.3	2494.2	2509.7	2515.3
10°	2240.5	2254.6	2268.7	2302.5	2353.3	2420.9	2485.7	2533.6	2540.7	2577.3	2594.2
12.5°	2237.7	2251.8	2270.1	2306.7	2365.9	2437.8	2516.7	2585.8	2598.4	2652.0	2687.2
15°	2267.3	2284.2	2301.1	2346.2	2409.6	2497.0	2581.5	2667.5	2680.2	2756.3	2794.3
17.5°	2327.9	2350.4	2363.1	2408.2	2475.8	2573.1	2684.4	2783.0	2794.3	2883.1	2931.0
20°	2447.7	2474.4	2478.7	2515.3	2581.5	2685.8	2818.3	2940.9	2955.0	3056.4	3110.0
22.5°	2695.7	2733.7	2699.9	2718.2	2777.4	2881.7	3025.4	3180.4	3200.1	3315.7	3363.6
25°	3132.5	3186.0	3098.7	3067.7	3093.0	3201.5	3381.9	3577.8	3600.3	3693.3	3717.3
27.5°	3990.7	3921.6	3789.2	3659.5	3583.4	3645.4	3848.3	4090.7	4118.9	4209.1	4180.9
30°	4933.4	4872.8	4693.8	4406.4	4226.0	4216.1	4403.5	4674.1	4706.5	4792.5	4706.5
32.5°	5877.5	5819.7	5625.3	5271.6	4958.7	4803.7	4933.4	5233.5	5250.4	5305.4	5178.6
35°	6806.1	6746.9	6552.5	6190.3	5805.6	5453.3	5428.0	5766.2	5771.8	5829.6	5640.8
37.5°	7740.4	7691.0	7483.9	7128.8	6749.7	6263.6	6028.3	6270.6	6277.7	6334.0	6138.2
40°	8406.9	8428.0	8285.7	8010.9	7685.4	7154.2	6701.8	6807.5	6765.2	6859.7	6742.7
42.5°	8979.0	9021.3	8897.3	8759.2	8570.3	8102.5	7536.0	7517.7	7450.1	7500.8	7379.6
45°	9473.6	9508.8	9397.5	9365.1	9360.9	9032.5	8447.7	8337.8	8243.4	8233.6	8088.4
47.5°	9655.4	9723.0	9770.9	9879.4	10090.8	9952.7	9390.5	9220.0	9114.3	9036.8	8807.1
50°	9724.4	9796.3	9959.7	10275.4	10775.6	10834.8	10328.9	10137.3	10007.7	9866.7	9528.6
52.5°	9631.4	9759.6	9979.5	10510.7	11236.4	11542.2	11229.4	11061.7	10913.7	10684.0	10182.4
55°	9083.3	9211.5	9661.0	10507.9	11466.1	12038.2	12080.5	12005.8	11839.5	11477.4	10710.8
57.5°	7927.8	8118.0	8829.6	10150.0	11461.9	12465.2	12914.7	12968.2	12782.2	12263.7	11126.5
60°	6327.0	6584.9	7452.9	9356.6	11108.2	12696.3	13646.0	13913.8	13716.5	13038.7	11463.3
62.5°	4414.8	4713.5	5535.1	8113.8	10299.3	12530.0	14180.1	14674.7	14525.3	13732.0	11592.9
65°	2692.9	2788.7	3451.0	6384.8	8924.0	11833.9	14345.0	15086.2	15036.8	14156.1	11401.3
67.5°	1793.8	1874.1	2064.4	4378.2	6927.3	10443.1	13950.4	15014.3	15028.4	14087.1	10699.5
70°	1080.8	1149.9	1273.9	2546.3	4489.5	8266.0	12728.7	14098.4	14180.1	13164.1	9369.3
72.5°	445.3	491.8	604.5	1154.1	2325.1	5246.2	10135.9	12104.4	12294.7	11068.7	7190.8
75°	252.2	276.2	355.1	579.2	1008.9	2444.8	6139.6	8592.9	8873.3	7629.0	4326.0
77.5°	167.7	179.0	229.7	374.8	567.9	834.2	2623.8	4476.8	5012.3	4166.8	1872.7
80°	112.7	122.6	157.8	250.8	369.2	357.9	835.6	1658.5	2040.4	1431.7	456.6
82.5°	76.1	77.5	112.7	164.9	233.9	173.3	246.6	515.7	648.2	414.3	173.3
85°	43.7	42.3	83.1	95.8	104.3	71.9	74.7	155.0	202.9	174.7	98.6
87.5°	5.6	8.5	32.4	25.4	14.1	15.5	15.5	26.8	39.5	42.3	21.1
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°	2444.8	2444.8	2444.8	2444.8	2444.8	2444.8	2444.8	2444.8	2444.8	2444.8	2444.8
2.5°	2447.7	2446.3	2442.0	2437.8	2427.9	2422.3	2425.1	2422.3	2420.9	2422.3	2427.9
5°	2466.0	2461.8	2450.5	2436.4	2416.7	2392.7	2377.2	2354.7	2333.5	2320.8	2323.7
7.5°	2515.3	2511.1	2495.6	2456.1	2392.7	2292.7	2201.1	2120.7	2060.2	2024.9	2026.3
10°	2594.2	2587.2	2563.2	2475.8	2309.6	2091.2	1909.4	1758.6	1660.0	1613.5	1609.2
12.5°	2687.2	2678.8	2636.5	2457.5	2151.7	1810.7	1559.9	1392.2	1300.6	1259.8	1255.5
15°	2797.1	2785.9	2702.7	2370.2	1922.1	1500.7	1271.0	1145.6	1086.4	1049.8	1051.2
17.5°	2933.8	2914.1	2752.0	2239.1	1672.6	1264.0	1093.5	999.1	946.9	911.7	908.9
20°	3111.4	3079.0	2791.5	2082.7	1443.0	1114.6	973.7	894.8	855.3	824.3	818.7
22.5°	3359.4	3312.9	2839.4	1913.6	1280.9	1011.8	884.9	827.2	794.8	759.5	753.9
25°	3666.6	3611.6	2898.6	1757.2	1169.6	923.0	820.1	772.2	734.2	693.3	689.1
27.5°	4096.3	3997.7	2969.0	1629.0	1073.8	846.9	760.9	707.4	663.7	629.9	622.8
30°	4575.5	4413.4	3031.0	1551.5	986.4	776.4	683.4	629.9	589.0	565.1	560.8
32.5°	5029.2	4809.4	3071.9	1517.6	907.5	696.1	598.9	541.1	510.1	503.1	507.3
35°	5457.6	5167.3	3067.7	1485.2	837.0	615.8	515.7	456.6	432.6	436.8	436.8
37.5°	5950.8	5549.2	3038.1	1434.5	779.3	542.5	443.9	391.7	370.6	372.0	377.6
40°	6524.3	5990.2	3019.8	1338.7	715.8	474.9	384.7	342.4	326.9	321.3	319.9
42.5°	7135.8	6417.2	3022.6	1230.2	636.9	414.3	343.8	308.6	294.5	290.3	288.9
45°	7750.2	6824.4	3026.8	1117.4	553.8	367.8	314.2	284.6	276.2	270.6	270.6
47.5°	8328.0	7171.1	2947.9	996.3	472.1	332.6	290.3	270.6	263.5	256.5	256.5
50°	8866.3	7402.2	2757.7	855.3	407.2	304.4	272.0	257.9	250.8	243.8	243.8
52.5°	9284.8	7438.8	2443.4	710.2	362.1	283.2	260.7	248.0	239.6	232.5	231.1
55°	9470.8	7209.1	1996.7	574.9	326.9	264.9	249.4	236.7	226.9	219.8	218.4
57.5°	9422.9	6725.8	1557.1	462.2	293.1	246.6	235.3	226.9	215.6	204.3	202.9
60°	9187.5	6079.0	1173.8	384.7	262.1	226.9	219.8	212.8	197.3	180.4	177.6
62.5°	8780.3	5265.9	837.0	318.5	228.3	204.3	201.5	195.9	173.3	142.3	139.5
65°	8157.5	4278.1	563.7	264.9	195.9	179.0	180.4	170.5	140.9	105.7	102.9
67.5°	7247.2	3128.3	360.7	217.0	163.5	149.4	150.8	145.1	119.8	90.2	86.0
70°	6087.5	2071.4	235.3	164.9	131.0	115.5	124.0	125.4	101.5	73.3	70.5
72.5°	4462.7	1223.1	164.9	122.6	95.8	80.3	101.5	104.3	81.7	55.0	52.1
75°	2543.5	580.6	124.0	88.8	59.2	56.4	78.9	78.9	56.4	36.6	33.8
77.5°	1068.1	242.4	87.4	57.8	33.8	32.4	53.5	49.3	28.2	16.9	16.9
80°	308.6	108.5	46.5	28.2	14.1	12.7	21.1	15.5	7.0	2.8	2.8
82.5°	121.2	47.9	18.3	11.3	5.6	5.6	2.8	0.0	0.0	0.0	0.0
85°	71.9	19.7	8.5	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.3	4.2	2.8	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)