

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: P966592

Luminaire Tested: **NAV-SB4C-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19242.3 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

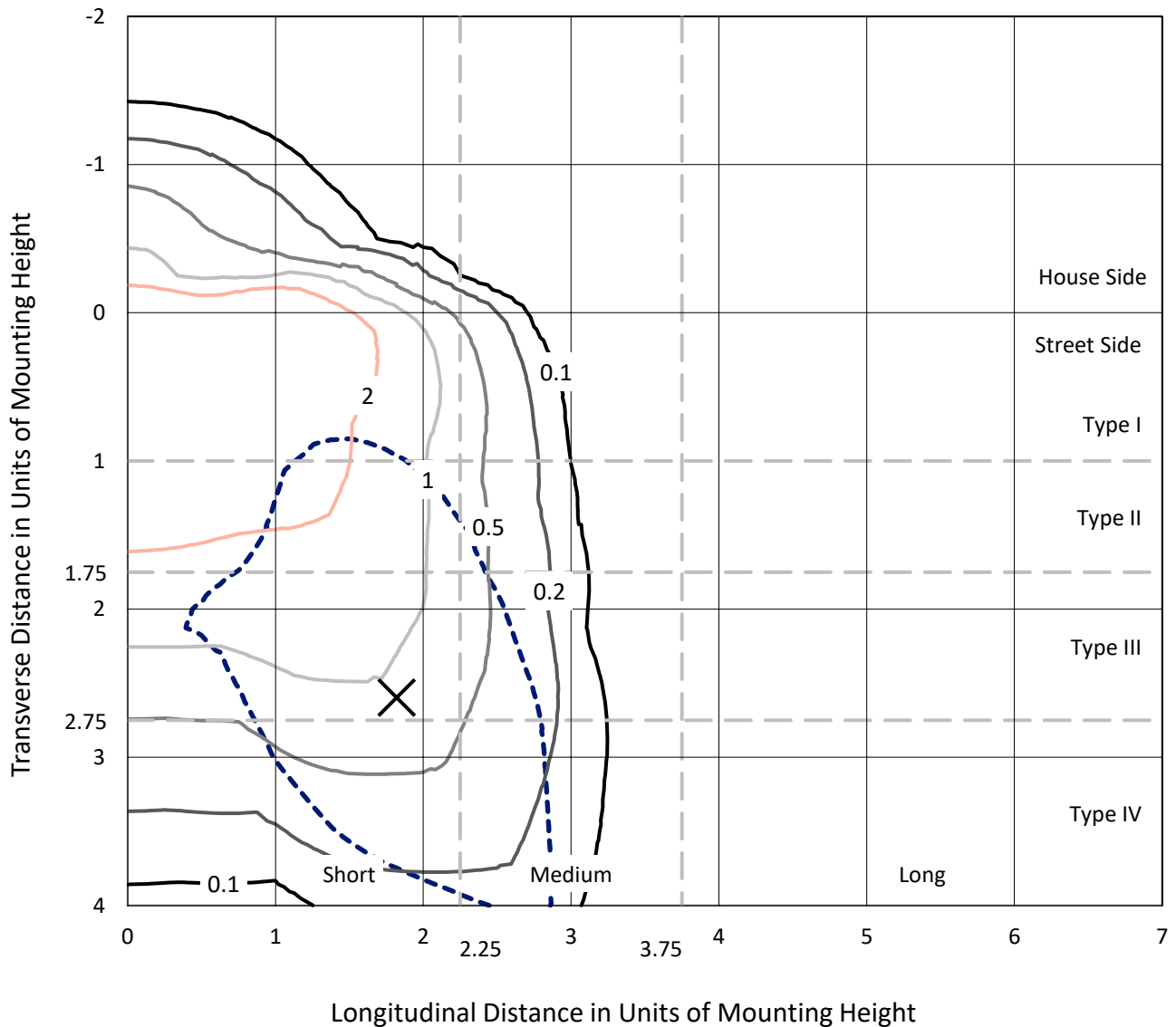
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

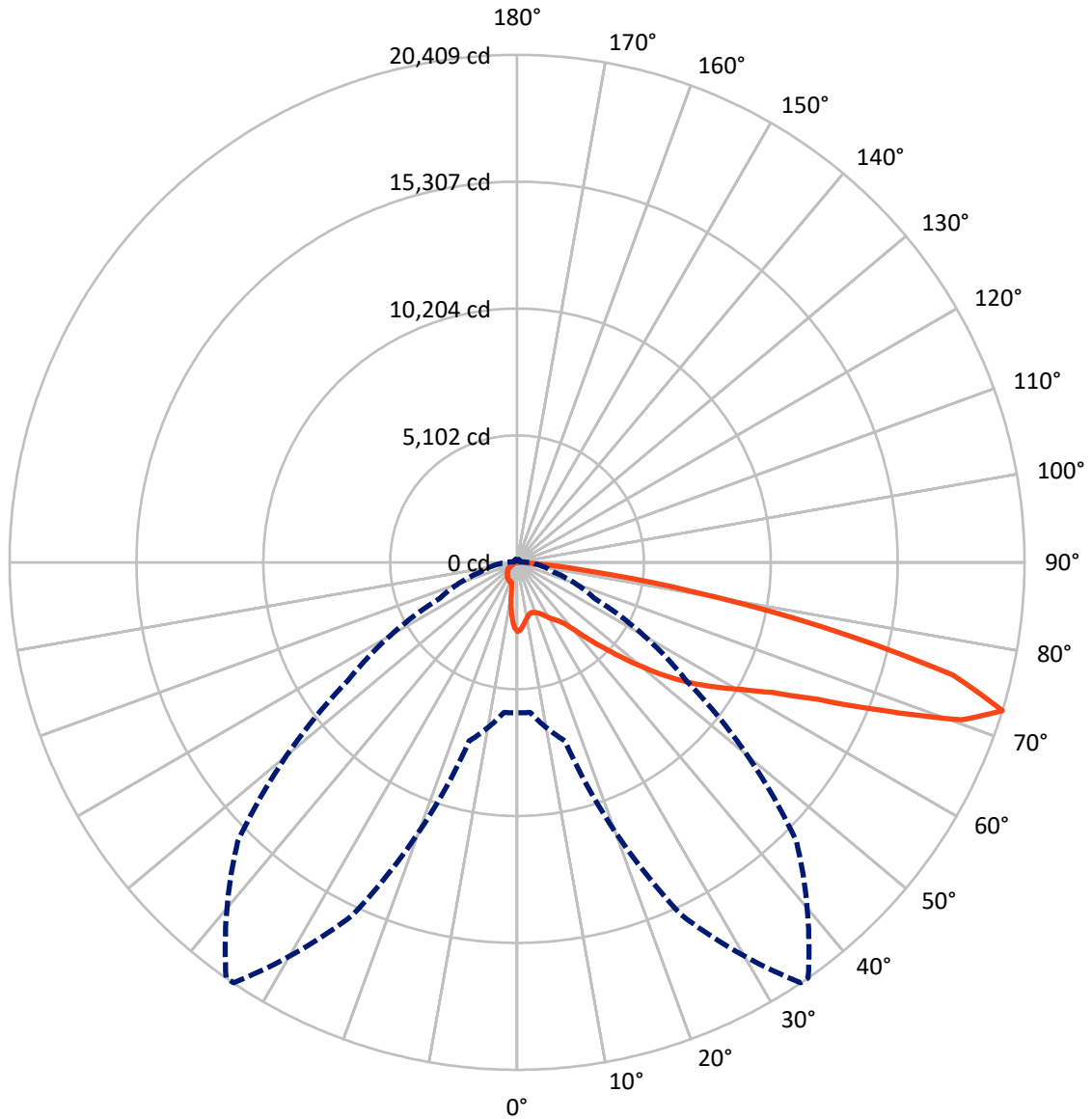
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2165.6	0.0	2165.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	17076.7	0.0	17076.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	19242.3	0.0	19242.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.2	1.2
10°-20°	536.1	2.8
20°-30°	870.9	4.5
30°-40°	1453.1	7.6
40°-50°	2749.3	14.3
50°-60°	4368.6	22.7
60°-70°	5404.3	28.1
70°-80°	3359.3	17.5
80°-90°	271.5	1.4
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°	19242.3	100.0
0°-180°	19242.3	100.0

Coefficient of Utilization

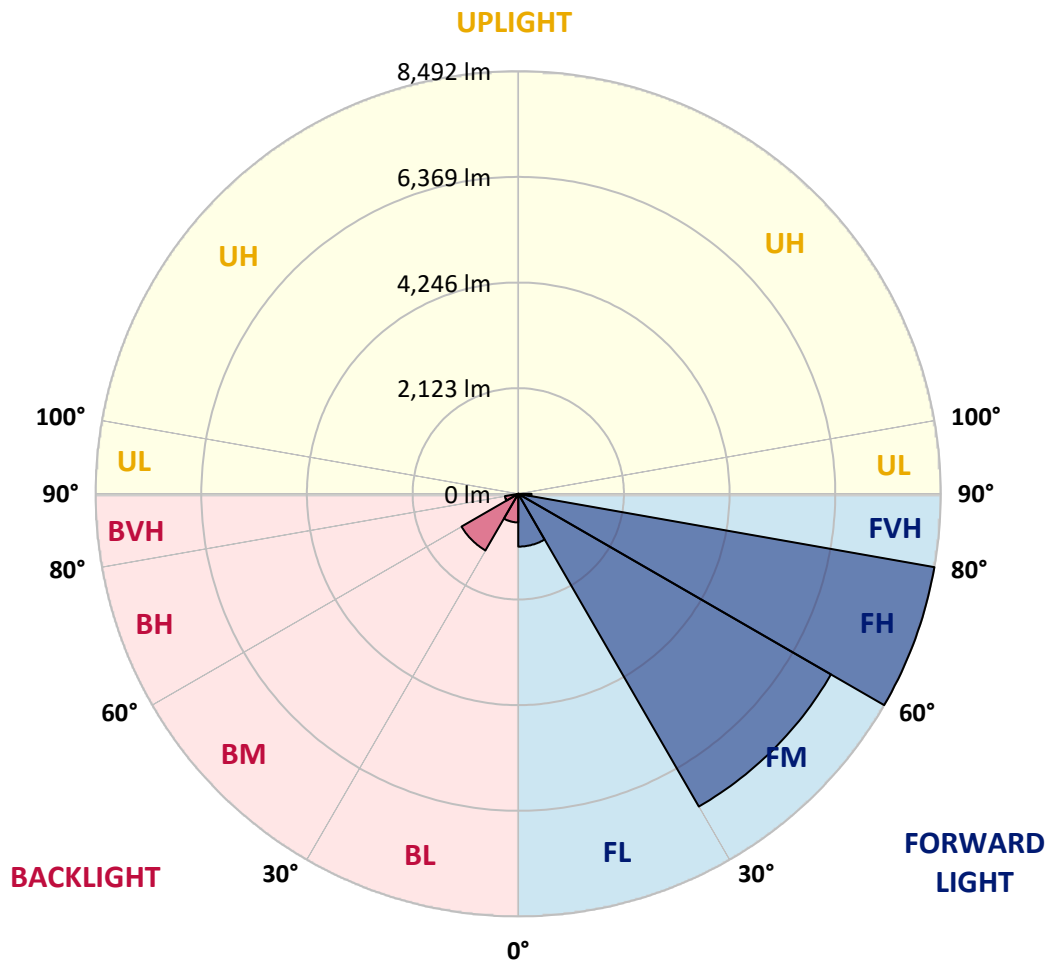


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1060.7	5.5			
FM (30°-60°)	7256.3	37.7			
FH (60°-80°)	8491.9	44.1			G4/12000
FVH (80°-90°)	267.8	1.4			G3/500
BL (0°-30°)	575.5	3.0	B2/1000		
BM (30°-60°)	1314.7	6.8	B2/2500		
BH (60°-80°)	271.8	1.4	B1/500		G1/500
BVH (80°-90°)	3.7	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-G4
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8
2.5°	2664.8	2687.3	2691.5	2698.6	2698.6	2707.1	2721.2	2741.0	2773.3	2790.3	2801.5
5°	2456.1	2473.0	2494.1	2511.1	2543.5	2547.7	2602.8	2656.3	2731.0	2787.5	2827.0
7.5°	2246.1	2265.8	2294.0	2334.8	2377.2	2389.9	2473.0	2563.2	2681.7	2787.5	2853.7
10°	2098.0	2099.4	2124.8	2165.6	2233.4	2248.8	2350.3	2478.7	2626.7	2770.6	2879.1
12.5°	2014.8	2024.7	2036.0	2067.0	2131.8	2141.7	2250.3	2401.2	2571.7	2760.6	2908.7
15°	2014.8	2021.8	2028.9	2044.4	2096.5	2105.0	2200.9	2351.8	2543.5	2764.9	2956.6
17.5°	2036.0	2047.2	2041.6	2059.9	2114.9	2120.5	2205.2	2337.7	2542.1	2791.7	3030.0
20°	2086.7	2095.2	2083.9	2095.2	2150.1	2161.4	2248.8	2364.5	2566.1	2838.2	3121.6
22.5°	2167.1	2171.3	2144.5	2153.0	2209.4	2223.4	2325.0	2440.6	2623.9	2912.9	3244.2
25°	2268.6	2277.0	2236.1	2246.1	2299.6	2316.5	2433.6	2554.8	2715.5	3015.9	3400.7
27.5°	2385.6	2389.9	2354.6	2353.2	2422.3	2446.3	2564.7	2695.9	2838.2	3145.6	3598.2
30°	2519.6	2532.3	2498.4	2492.8	2580.2	2599.9	2717.0	2869.2	3018.7	3340.2	3878.7
32.5°	2625.3	2635.2	2615.4	2629.5	2718.4	2733.9	2901.7	3114.6	3302.0	3616.5	4260.8
35°	2777.5	2783.2	2738.1	2763.5	2865.0	2904.4	3154.0	3458.6	3658.8	3963.4	4760.0
37.5°	3328.9	3328.9	3137.1	3011.7	3108.9	3144.2	3499.5	3891.4	4098.7	4428.6	5388.8
40°	4091.6	4079.0	3798.3	3541.8	3529.1	3598.2	3991.6	4437.1	4666.9	4986.9	6096.6
42.5°	4905.1	4885.5	4503.3	4249.5	4207.2	4231.2	4559.7	5109.6	5343.6	5667.9	6858.0
45°	5627.0	5621.4	5271.8	4930.6	4854.4	4930.6	5268.9	5896.3	6064.1	6405.3	7617.9
47.5°	6231.9	6231.9	5976.8	5753.9	5714.5	5759.6	6229.1	6769.1	6753.6	7190.7	8358.2
50°	6928.5	6922.7	6680.3	6584.4	6625.3	6688.7	7334.5	7688.4	7467.0	7961.9	9019.4
52.5°	7416.3	7450.1	7366.9	7351.4	7560.1	7670.1	8456.8	8588.0	8105.7	8693.6	9514.3
55°	7802.6	7842.1	7937.9	8046.6	8448.4	8592.2	9543.9	9441.0	8640.1	9328.1	9799.1
57.5°	8349.6	8293.3	8441.3	8655.6	9305.6	9479.0	10597.1	10246.0	9070.1	9842.8	9830.1
60°	9013.7	9022.2	9047.6	9318.3	10161.4	10384.2	11634.8	11007.4	9346.5	10158.6	9486.1
62.5°	9811.7	9824.4	9876.6	10292.5	11310.6	11520.6	12740.2	11630.6	9473.4	10069.8	8597.8
65°	9756.8	9810.4	10392.7	11815.3	13057.5	13264.7	14030.3	12067.6	9281.6	9257.7	7000.3
67.5°	8888.3	8975.6	9950.0	13634.1	15691.2	15922.5	15589.7	12153.6	8454.0	7199.2	4566.8
70°	7749.0	7780.1	8951.7	15269.6	18740.9	18974.9	16985.5	11207.6	6415.3	4015.5	2045.8
72.5°	6051.5	6058.5	7433.2	15648.9	20396.2	20408.9	15890.0	8320.0	3450.2	1542.5	710.6
75°	4322.8	4280.6	4978.5	12690.8	17944.3	18088.1	11912.6	3902.7	1318.3	729.0	353.9
77.5°	2317.9	2364.5	2817.0	7526.3	12396.1	12641.5	6499.8	1125.1	671.2	496.3	234.0
80°	716.3	755.7	1154.8	3445.8	7021.5	7169.6	2409.6	500.5	468.1	353.9	153.6
82.5°	225.6	234.0	538.6	1448.0	2914.4	2982.0	697.9	283.4	320.0	234.0	90.2
85°	64.9	66.3	239.6	540.0	720.5	734.6	196.0	110.0	183.3	145.2	46.5
87.5°	7.1	22.5	90.2	90.2	63.4	62.0	21.1	24.0	52.2	18.3	8.5
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°	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8
2.5°	2794.5	2795.9	2777.5	2746.6	2712.8	2684.5	2649.3	2621.0	2601.3	2595.7	2605.5
5°	2814.2	2804.4	2752.2	2657.7	2545.0	2447.7	2339.0	2253.1	2196.7	2172.7	2181.2
7.5°	2843.9	2815.7	2701.5	2515.4	2299.6	2107.8	1913.3	1762.4	1666.5	1618.6	1625.6
10°	2869.2	2812.8	2616.8	2309.5	1979.6	1689.1	1426.9	1245.0	1143.5	1095.5	1097.0
12.5°	2893.2	2811.4	2506.8	2065.6	1618.6	1263.3	1019.4	929.2	901.0	891.0	888.3
15°	2938.3	2815.7	2368.7	1786.4	1259.1	954.5	865.7	864.3	869.9	867.2	865.7
17.5°	3000.4	2819.9	2212.2	1490.4	971.5	841.7	837.5	850.2	858.6	854.4	853.0
20°	3080.7	2836.8	2045.8	1197.0	834.7	813.5	823.4	834.7	841.7	834.7	833.2
22.5°	3193.5	2866.4	1864.0	961.6	791.0	796.6	805.0	817.7	824.8	815.0	813.5
25°	3331.7	2912.9	1684.9	836.1	769.9	776.8	789.6	803.7	812.1	802.3	800.8
27.5°	3510.7	2987.7	1519.9	807.9	748.7	752.9	771.2	792.4	803.7	791.0	791.0
30°	3770.2	3110.4	1377.5	820.6	735.9	726.1	751.5	781.2	793.8	782.5	781.2
32.5°	4114.2	3283.8	1290.1	840.3	730.3	695.1	719.0	757.2	778.3	771.2	771.2
35°	4565.3	3547.4	1256.2	862.8	726.1	662.7	679.6	720.5	757.2	764.1	764.1
37.5°	5112.4	3914.0	1266.1	872.8	713.4	635.9	644.3	679.6	727.5	750.1	755.7
40°	5734.3	4341.2	1322.6	862.8	699.4	613.4	614.7	641.5	683.8	717.7	729.0
42.5°	6375.7	4840.4	1426.9	826.3	686.6	593.6	589.4	607.7	635.9	659.9	669.7
45°	6986.2	5353.6	1529.8	775.5	671.2	573.8	564.0	571.0	576.7	586.5	592.1
47.5°	7519.2	5714.5	1500.2	729.0	650.0	551.2	534.3	531.6	514.7	513.2	511.8
50°	7887.2	5793.4	1332.4	682.4	619.0	525.9	499.1	482.2	452.6	438.5	439.9
52.5°	8004.2	5481.8	1088.4	635.9	568.2	492.1	454.0	427.2	390.5	377.8	376.5
55°	7849.1	4871.3	869.9	579.5	497.7	446.9	404.7	369.4	339.8	324.3	324.3
57.5°	7469.9	4094.5	688.1	513.2	423.0	396.2	353.9	318.7	293.3	277.8	274.9
60°	6841.1	3251.3	544.3	434.3	360.9	341.2	297.5	274.9	252.4	234.0	229.8
62.5°	5886.5	2320.8	427.2	344.0	301.8	279.2	253.8	236.9	210.1	184.7	180.5
65°	4593.5	1419.8	329.9	252.4	242.5	231.2	215.8	200.2	167.8	142.4	138.2
67.5°	2897.5	672.5	235.4	190.3	191.8	186.1	179.1	166.4	142.4	119.8	117.1
70°	1276.0	325.7	155.1	145.2	142.4	142.4	148.0	143.8	121.3	100.1	95.8
72.5°	434.3	174.9	115.6	110.0	102.9	101.5	124.0	119.8	97.3	77.6	73.3
75°	227.0	117.1	84.6	78.9	62.0	74.7	98.7	93.1	69.1	50.7	46.5
77.5°	148.0	83.2	57.8	50.7	35.3	49.3	73.3	64.9	40.9	25.4	22.5
80°	93.1	54.9	33.8	24.0	16.9	26.8	39.5	28.2	15.5	5.6	4.2
82.5°	49.3	28.2	12.7	8.5	7.1	8.5	9.8	7.1	2.9	0.0	0.0
85°	19.8	9.8	4.2	2.9	1.4	0.0	2.9	1.4	0.0	0.0	0.0
87.5°	7.1	1.4	0.0	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)