

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: P883311

Luminaire Tested: **NAV-SB3C-830-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19427 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

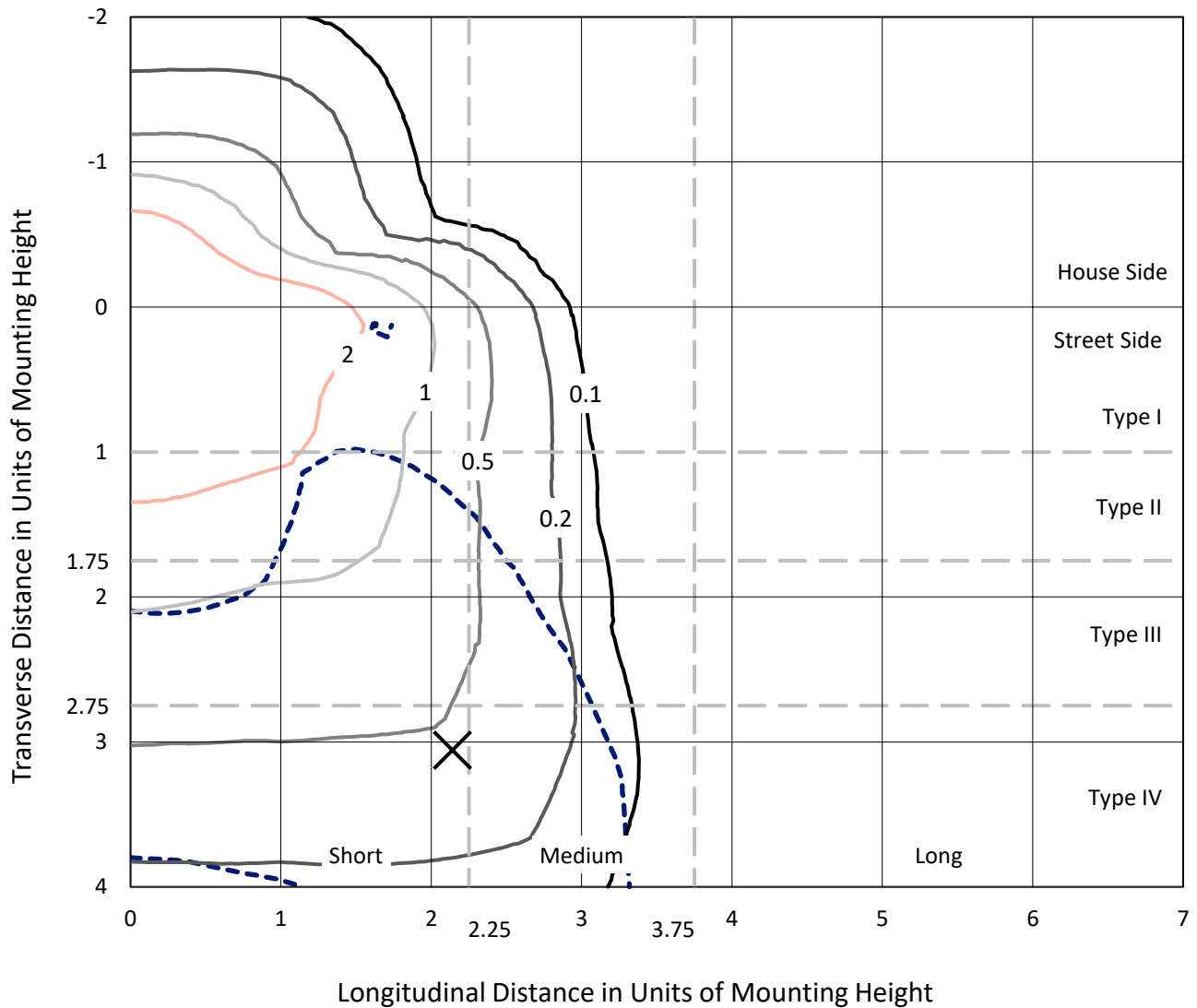
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

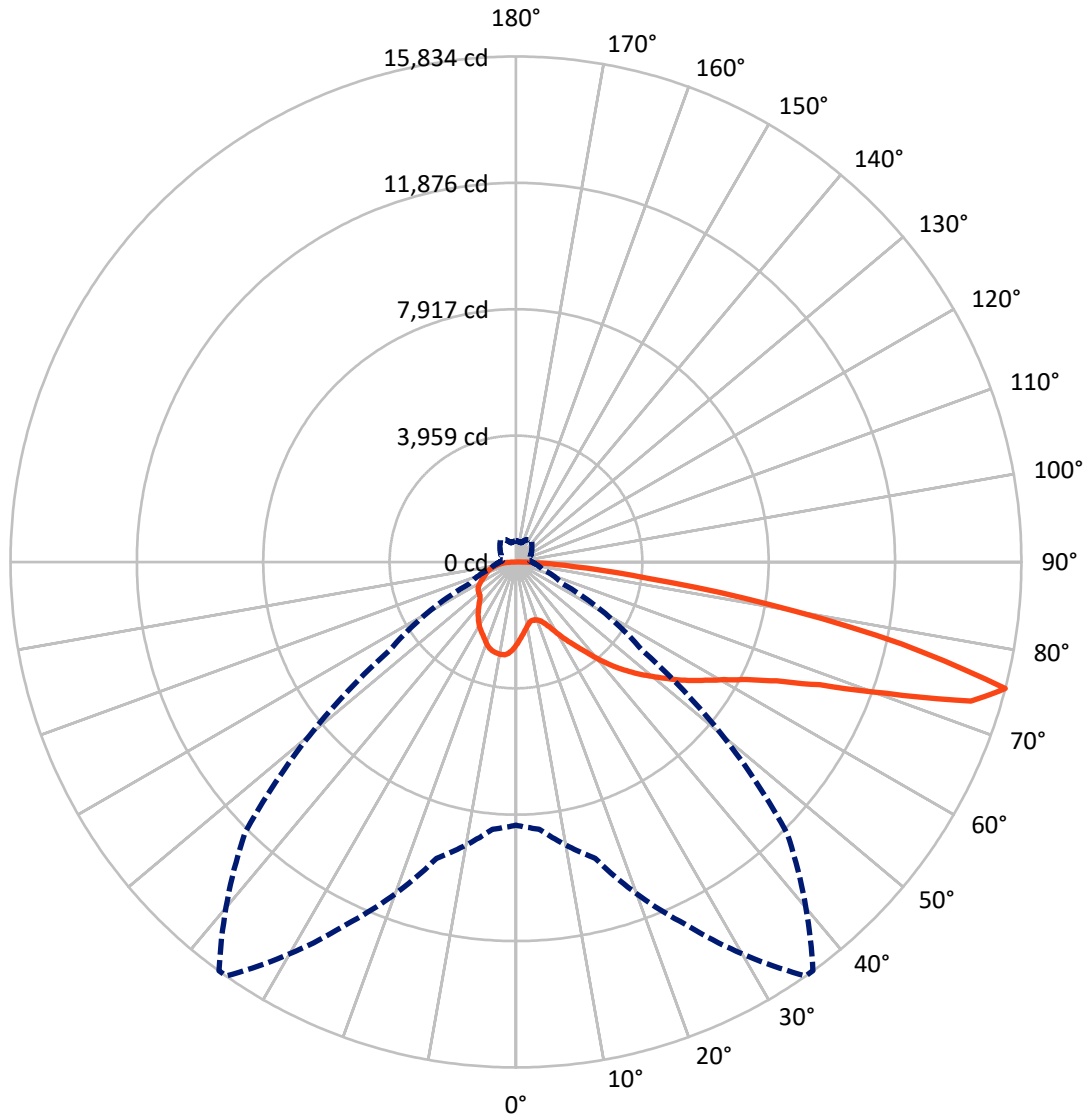
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4623.1	0.0	4623.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	14803.8	0.0	14803.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	19427.0	0.0	19427.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	1.3
10°-20°	707.0	3.6
20°-30°	1187.2	6.1
30°-40°	1845.1	9.5
40°-50°	2738.6	14.1
50°-60°	3780.8	19.5
60°-70°	4587.0	23.6
70°-80°	3790.8	19.5
80°-90°	545.2	2.8
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°	19427.0	100.0
0°-180°	19427.0	100.0



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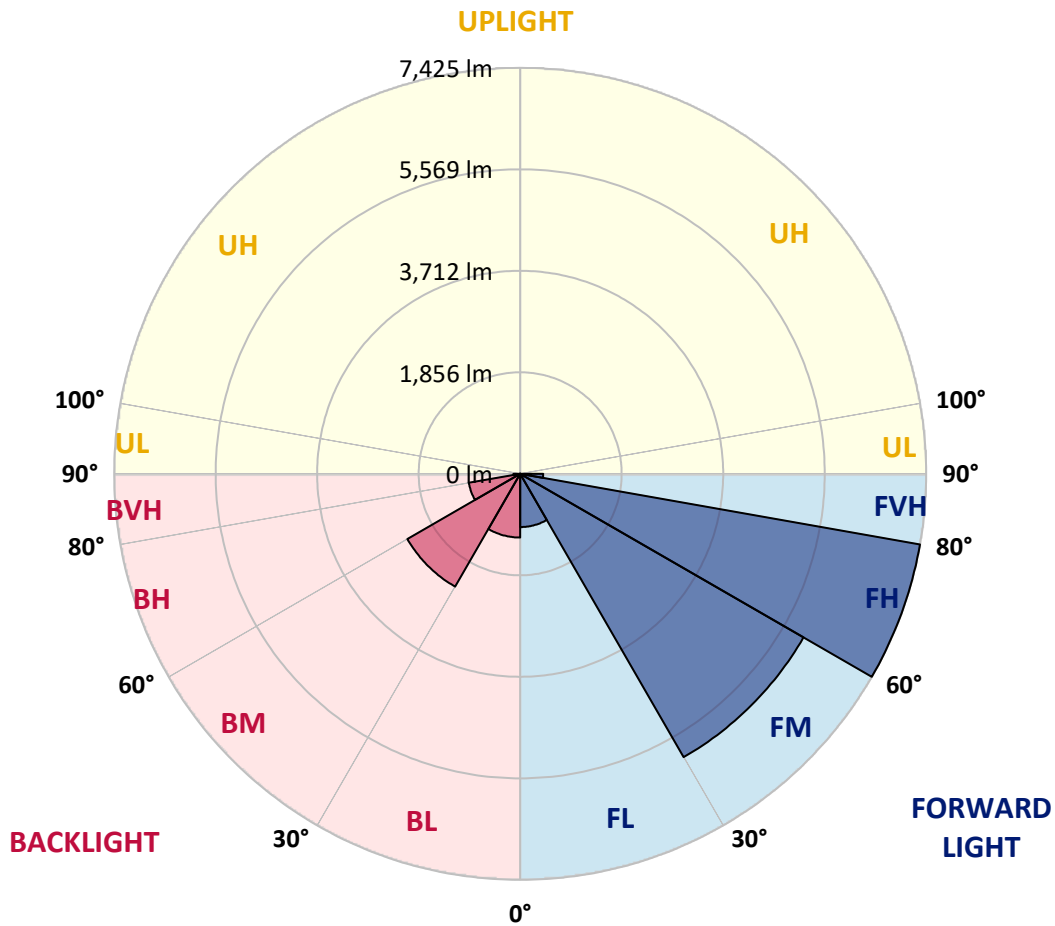
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	974.2	5.0			
FM (30°-60°)	5982.5	30.8			
FH (60°-80°)	7424.7	38.2			G3/7500
FVH (80°-90°)	422.5	2.2			G3/500
BL (0°-30°)	1165.1	6.0	B3/2500		
BM (30°-60°)	2382.1	12.3	B2/2500		
BH (60°-80°)	953.1	4.9	B2/1000		G2/1000
BVH (80°-90°)	122.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8
2.5°	2387.1	2401.8	2408.1	2405.0	2420.7	2418.6	2440.7	2468.0	2505.8	2542.6	2596.1
5°	2203.4	2219.1	2232.8	2245.4	2275.8	2285.3	2319.9	2372.4	2441.7	2512.1	2600.3
7.5°	2032.2	2045.8	2066.8	2089.9	2141.4	2150.8	2208.6	2290.5	2387.1	2490.1	2611.9
10°	1892.5	1906.1	1928.2	1954.4	2018.5	2030.1	2103.6	2212.8	2338.8	2469.1	2624.5
12.5°	1832.6	1836.8	1849.4	1875.7	1931.3	1938.7	2019.6	2144.5	2291.6	2453.3	2643.4
15°	1829.5	1837.9	1838.9	1852.6	1898.8	1901.9	1976.5	2100.4	2262.2	2450.2	2671.7
17.5°	1861.0	1867.3	1857.8	1866.2	1905.1	1910.3	1969.2	2079.4	2252.7	2463.8	2720.1
20°	1945.0	1950.2	1921.9	1910.3	1938.7	1942.9	2000.7	2093.1	2262.2	2492.2	2786.2
22.5°	2123.5	2126.7	2057.4	2010.1	2012.2	2014.3	2064.7	2148.7	2298.9	2543.6	2870.2
25°	2401.8	2399.7	2289.5	2198.1	2145.6	2134.0	2167.6	2239.1	2360.9	2611.9	2978.4
27.5°	2727.4	2711.7	2601.4	2464.9	2350.4	2333.6	2326.2	2356.7	2449.1	2702.2	3110.7
30°	3095.0	3080.3	2961.6	2783.1	2624.5	2597.2	2527.9	2512.1	2580.4	2825.1	3294.5
32.5°	3498.3	3488.8	3347.0	3130.7	2918.5	2887.0	2770.5	2728.5	2782.0	3011.0	3550.8
35°	3836.4	3828.0	3710.4	3487.8	3228.4	3189.5	3070.8	3023.6	3050.9	3249.4	3885.8
37.5°	4142.0	4137.8	4037.0	3861.6	3593.8	3546.6	3413.2	3397.4	3392.2	3563.4	4292.2
40°	4425.6	4415.1	4310.1	4217.7	4019.2	3976.1	3858.5	3844.8	3804.9	3949.9	4752.2
42.5°	4739.6	4712.3	4560.0	4517.0	4463.4	4427.7	4357.3	4359.4	4271.2	4385.7	5239.5
45°	4995.9	4980.1	4823.6	4798.4	4856.2	4841.5	4902.4	4918.2	4747.0	4842.5	5745.7
47.5°	5271.0	5256.3	5124.0	5106.1	5262.6	5266.8	5482.1	5487.4	5211.2	5317.2	6253.0
50°	5610.2	5589.2	5458.0	5480.0	5655.4	5671.2	6065.0	6029.3	5638.6	5799.3	6756.0
52.5°	5833.9	5846.5	5818.2	5853.9	6093.3	6108.0	6638.4	6547.0	6061.8	6275.0	7249.6
55°	5998.8	6024.0	6112.2	6194.2	6555.4	6570.1	7179.3	7039.6	6412.6	6716.1	7713.8
57.5°	6211.0	6175.3	6340.1	6499.8	6994.4	7033.3	7705.4	7514.3	6723.5	7096.3	8032.0
60°	6515.5	6490.3	6618.5	6854.8	7485.9	7547.9	8262.0	7941.7	6951.4	7397.7	8094.0
62.5°	7133.1	7070.0	7090.0	7299.0	8105.6	8187.5	8890.1	8314.5	7064.8	7515.3	7762.1
65°	8056.2	7948.0	7847.2	7992.1	8978.3	9059.2	9599.0	8607.6	7022.8	7287.4	6881.0
67.5°	9218.8	9111.7	8987.7	9124.3	10263.7	10327.8	10473.8	8772.4	6692.0	6409.5	5323.5
70°	10177.6	10137.7	10285.8	10847.7	12316.9	12319.0	11595.4	8635.9	5785.6	4544.3	3080.3
72.5°	10050.6	10026.4	10806.7	12543.8	14904.6	14849.0	12657.2	7602.5	3897.3	2050.0	1154.2
75°	8245.2	8401.7	9610.5	12513.3	15834.1	15826.7	12007.1	4833.1	1612.1	849.6	596.5
77.5°	4421.4	4669.3	6239.3	9238.7	12361.0	12546.9	8441.6	1690.8	692.1	544.0	412.7
80°	1441.9	1658.3	2486.9	4703.9	8032.0	7997.4	3618.0	663.7	473.6	385.4	285.7
82.5°	612.3	637.5	1111.1	2221.2	4122.1	4058.0	1152.1	381.2	332.9	263.6	176.4
85°	239.4	267.8	490.5	1027.1	1785.4	1746.5	415.9	189.0	213.2	172.2	105.0
87.5°	78.8	95.6	175.4	351.8	555.6	535.6	101.9	65.1	92.4	78.8	37.8
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°	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8	2588.8
2.5°	2610.8	2627.6	2647.6	2677.0	2702.2	2723.2	2745.3	2758.9	2764.2	2779.9	2778.9
5°	2629.7	2666.5	2715.9	2764.2	2811.4	2839.8	2865.0	2877.6	2889.1	2897.5	2899.6
7.5°	2661.2	2708.5	2786.2	2849.2	2889.1	2912.2	2929.0	2924.8	2929.0	2931.1	2934.3
10°	2688.5	2754.7	2847.1	2907.0	2937.5	2938.5	2934.3	2919.6	2912.2	2913.3	2915.4
12.5°	2721.1	2794.6	2894.4	2944.8	2953.2	2930.1	2912.2	2887.0	2877.6	2873.4	2871.3
15°	2765.2	2849.2	2945.9	2964.8	2943.8	2914.3	2883.9	2842.9	2821.9	2805.1	2810.4
17.5°	2818.8	2911.2	2985.8	2972.1	2926.9	2878.6	2829.3	2767.3	2724.3	2706.4	2707.5
20°	2893.3	2976.3	3016.2	2956.4	2888.1	2814.6	2730.6	2654.9	2615.0	2597.2	2595.1
22.5°	2983.7	3063.5	3045.6	2929.0	2832.4	2714.8	2609.8	2554.1	2534.2	2521.6	2523.7
25°	3091.8	3160.1	3066.6	2889.1	2741.1	2582.5	2501.6	2483.8	2474.3	2464.9	2464.9
27.5°	3232.6	3269.3	3082.4	2830.3	2598.2	2441.7	2412.3	2415.5	2412.3	2396.6	2399.7
30°	3418.4	3411.1	3097.1	2734.8	2434.4	2314.7	2316.8	2330.4	2332.5	2322.0	2327.3
32.5°	3663.1	3588.6	3104.4	2610.8	2277.9	2203.4	2205.5	2220.2	2230.7	2212.8	2221.2
35°	3959.3	3795.5	3092.9	2455.4	2157.1	2097.3	2081.5	2085.7	2088.9	2072.1	2083.6
37.5°	4304.8	4027.6	3041.4	2283.2	2057.4	1993.3	1959.7	1931.3	1914.5	1898.8	1909.3
40°	4684.0	4280.7	2946.9	2115.1	1946.0	1883.0	1832.6	1779.1	1722.4	1701.3	1710.8
42.5°	5080.9	4541.1	2832.4	1954.4	1817.9	1766.5	1712.9	1635.2	1550.1	1507.1	1512.3
45°	5492.6	4807.9	2720.1	1795.9	1686.6	1664.6	1602.6	1509.2	1416.7	1362.1	1357.9
47.5°	5895.9	5059.9	2555.2	1636.2	1563.8	1587.9	1539.6	1453.5	1350.6	1264.5	1255.0
50°	6281.3	5296.2	2285.3	1474.5	1464.0	1564.8	1518.6	1394.7	1277.1	1166.8	1157.3
52.5°	6663.6	5487.4	1939.7	1327.5	1410.4	1558.5	1491.3	1354.8	1210.9	1095.4	1082.8
55°	6988.1	5586.1	1606.8	1201.4	1332.7	1505.0	1458.7	1307.5	1117.4	994.6	984.1
57.5°	7173.0	5506.3	1329.6	1077.5	1225.6	1416.7	1403.1	1206.7	1006.1	911.6	899.0
60°	7093.1	5182.8	1102.7	969.3	1123.7	1321.2	1306.5	1106.9	921.0	831.8	819.2
62.5°	6653.1	4566.3	923.1	874.8	1031.3	1223.5	1209.8	1030.3	855.9	769.8	756.2
65°	5766.7	3714.6	783.5	796.1	937.8	1105.9	1125.8	966.2	804.5	720.4	706.8
67.5°	4398.3	2690.6	674.2	727.8	846.5	990.4	1048.1	920.0	761.4	681.6	669.0
70°	2506.9	1528.1	581.8	661.6	765.6	883.2	988.3	883.2	715.2	649.0	640.6
72.5°	950.4	701.5	503.1	595.5	687.9	792.9	922.1	825.5	661.6	612.3	603.9
75°	507.3	427.4	423.2	517.8	598.6	704.7	839.1	768.8	621.7	646.9	667.9
77.5°	345.5	302.5	353.9	443.2	501.0	607.0	750.9	682.6	538.8	536.7	494.7
80°	239.4	214.2	287.8	357.1	387.5	510.4	655.3	586.0	439.0	409.6	391.7
82.5°	143.9	139.7	215.3	266.8	274.1	393.8	543.0	491.5	359.2	313.0	315.1
85°	78.8	83.0	137.6	156.5	159.6	275.2	425.3	380.2	276.2	232.1	234.2
87.5°	22.1	28.4	50.4	62.0	76.7	142.8	253.1	225.8	138.6	96.6	96.6
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)