

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: P883239

Luminaire Tested: **NAV-SB3C-727-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-727-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20371 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

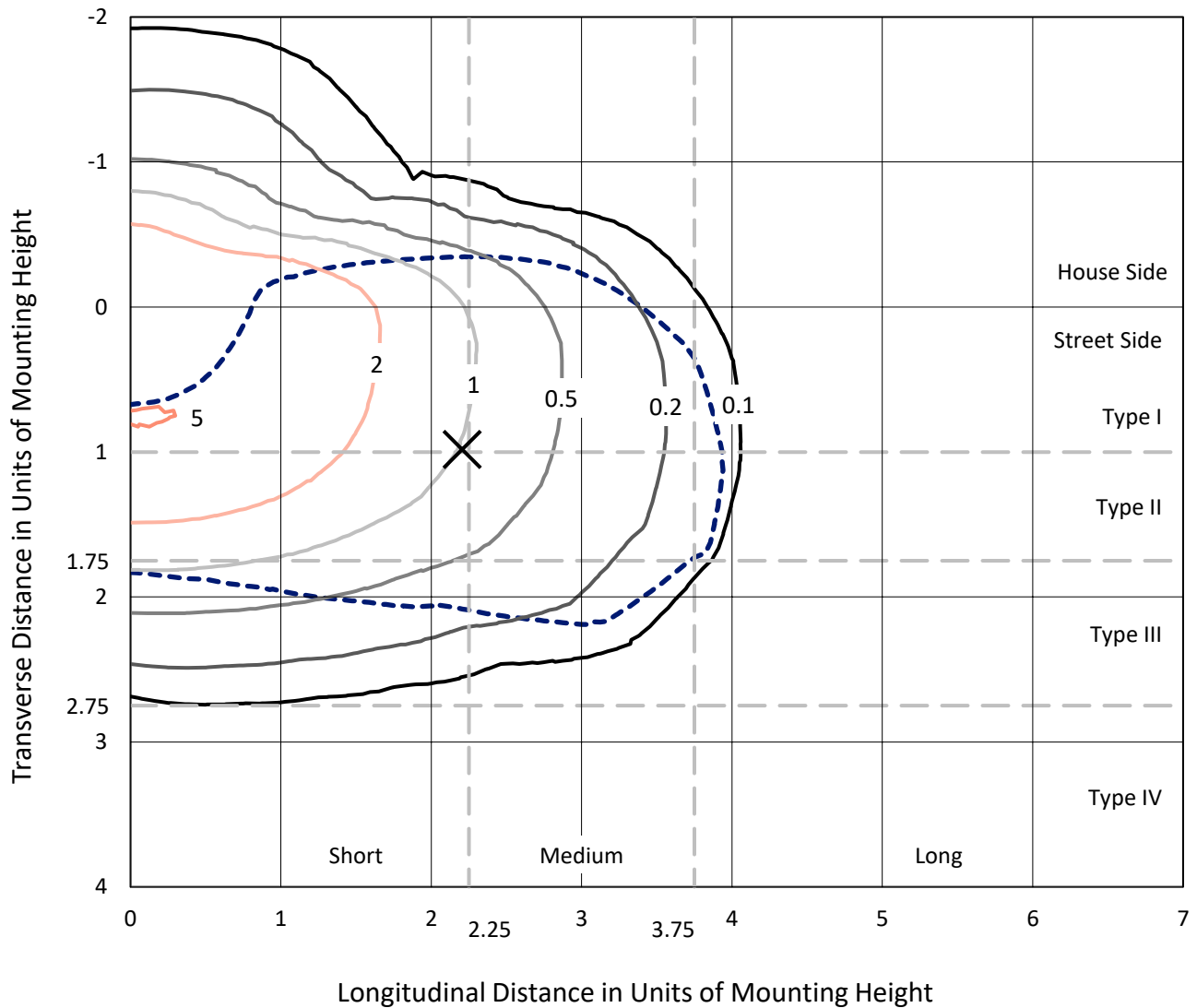
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

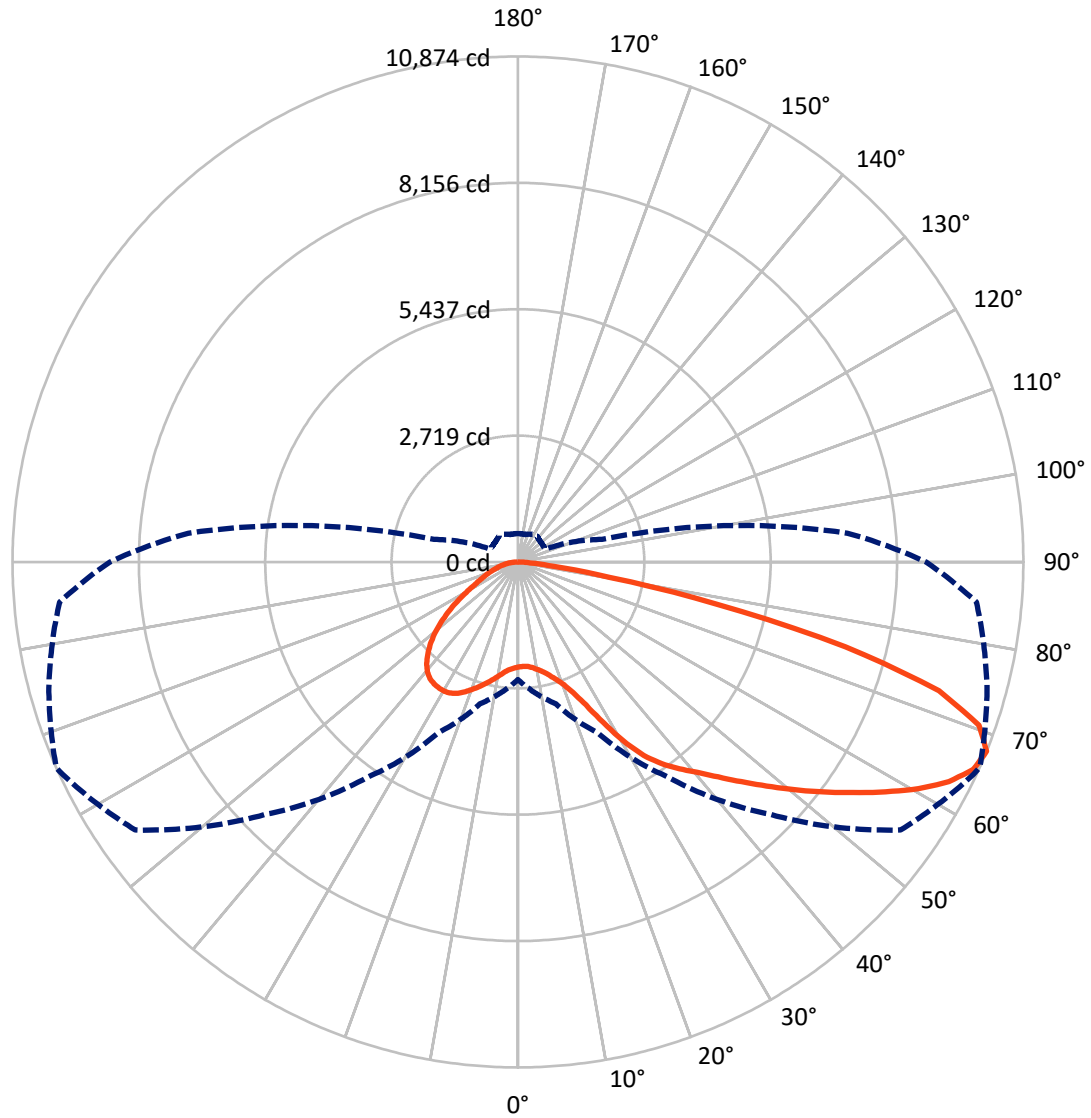
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5065.2	0.0	5065.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	15305.8	0.0	15305.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	20371.0	0.0	20371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	1.1
10°-20°	740.1	3.6
20°-30°	1426.5	7.0
30°-40°	2501.2	12.3
40°-50°	3718.5	18.3
50°-60°	4713.5	23.1
60°-70°	4612.1	22.6
70°-80°	2200.0	10.8
80°-90°	235.1	1.2
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°	20371.0	100.0
0°-180°	20371.0	100.0

Coefficient of Utilization



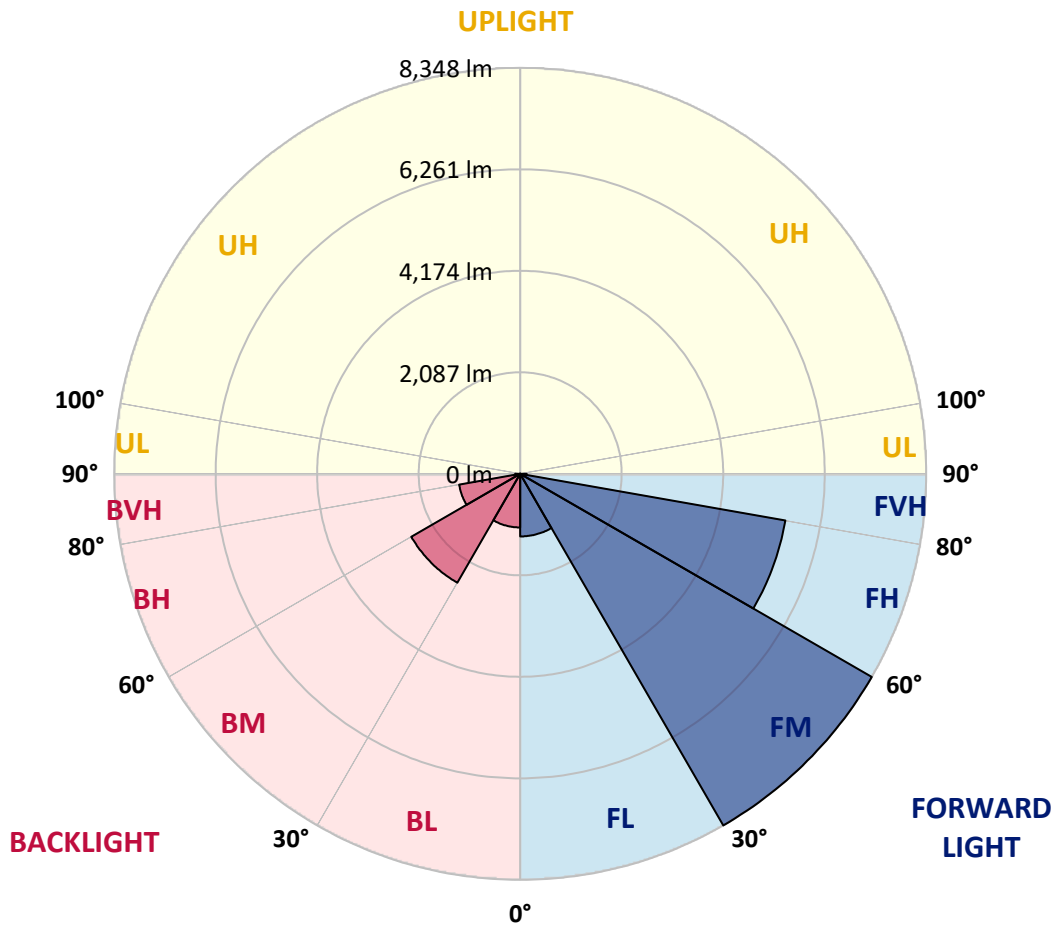
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.2	6.3			
FM (30°-60°)	8347.9	41.0			
FH (60°-80°)	5537.4	27.2			G3/7500
FVH (80°-90°)	133.3	0.7			G2/225
BL (0°-30°)	1103.4	5.4	B3/2500		
BM (30°-60°)	2585.3	12.7	B3/5000		
BH (60°-80°)	1274.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	101.8	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4
2.5°	2235.9	2248.7	2245.5	2240.1	2239.1	2241.2	2244.4	2247.6	2246.6	2251.9	2260.5
5°	2229.4	2242.3	2241.2	2241.2	2245.5	2254.1	2259.4	2264.8	2259.4	2265.8	2277.6
7.5°	2233.7	2243.4	2247.6	2251.9	2262.6	2278.7	2291.5	2303.3	2296.9	2304.4	2319.4
10°	2288.3	2295.8	2300.1	2300.1	2307.6	2325.8	2338.6	2360.0	2354.7	2366.4	2385.7
12.5°	2387.8	2395.3	2395.3	2391.1	2396.4	2408.2	2412.5	2436.0	2426.4	2445.6	2464.9
15°	2509.9	2524.8	2513.1	2505.6	2507.7	2519.5	2518.4	2536.6	2527.0	2543.0	2560.2
17.5°	2644.7	2664.0	2644.7	2643.7	2639.4	2652.2	2653.3	2669.3	2652.2	2664.0	2675.8
20°	2804.2	2831.0	2814.9	2820.3	2810.6	2816.0	2821.3	2844.9	2818.1	2826.7	2823.5
22.5°	3029.0	3061.1	3043.9	3064.3	3057.9	3053.6	3052.5	3094.3	3052.5	3055.7	3024.7
25°	3356.5	3395.0	3365.0	3392.9	3392.9	3406.8	3422.8	3476.3	3406.8	3386.4	3306.2
27.5°	3840.3	3878.8	3819.9	3837.0	3831.7	3865.9	3848.8	3981.5	3906.6	3873.4	3711.8
30°	4422.5	4491.0	4379.7	4375.4	4370.1	4424.6	4449.3	4537.0	4461.0	4427.9	4233.1
32.5°	5051.8	5123.5	4990.8	4952.3	4932.0	4965.1	4944.8	5015.4	4963.0	4911.6	4670.8
35°	5717.6	5788.2	5661.9	5587.0	5505.6	5436.1	5363.3	5381.5	5332.3	5254.1	5004.7
37.5°	6346.9	6476.4	6342.6	6262.4	6112.5	5976.6	5773.2	5688.7	5642.6	5570.9	5319.4
40°	6988.0	7061.9	6960.2	6891.7	6729.0	6516.0	6190.6	6011.9	5949.8	5880.3	5667.3
42.5°	7460.0	7530.7	7476.1	7429.0	7301.6	7054.4	6633.7	6410.1	6320.1	6242.0	6061.1
45°	7834.6	7887.1	7852.8	7870.0	7815.4	7575.6	7092.9	6837.1	6744.0	6648.7	6506.4
47.5°	7985.5	8041.2	8095.8	8197.5	8290.6	8114.0	7586.3	7299.5	7201.0	7103.6	6963.4
50°	7968.4	8025.1	8183.5	8399.8	8688.7	8629.9	8106.5	7791.8	7700.8	7589.5	7460.0
52.5°	7831.4	7895.6	8099.0	8458.6	8918.8	9016.2	8636.3	8300.2	8214.6	8081.9	7952.4
55°	7471.8	7510.3	7815.4	8324.8	8973.4	9286.0	9155.4	8841.8	8756.2	8571.0	8429.7
57.5°	6805.0	6860.7	7304.8	7964.1	8836.4	9469.0	9611.3	9411.2	9328.8	9062.3	8914.6
60°	5934.8	6023.7	6532.1	7358.3	8487.5	9467.9	10025.5	9971.0	9902.5	9546.0	9391.9
62.5°	4950.2	5052.9	5542.0	6502.1	7877.4	9199.3	10284.6	10439.8	10404.4	9992.4	9795.4
65°	3801.7	3872.4	4359.4	5394.3	6928.1	8622.4	10314.5	10759.8	10766.2	10331.7	10006.3
67.5°	2531.3	2734.6	3157.4	4047.9	5656.6	7679.4	10051.2	10812.2	10874.3	10448.3	9900.3
70°	1235.1	1502.7	1916.9	2630.8	4047.9	6233.5	9363.0	10382.0	10520.0	10108.0	9268.8
72.5°	512.7	599.4	825.2	1298.3	2323.6	4206.3	7980.2	9215.3	9471.1	8956.3	7792.9
75°	345.7	374.6	472.0	665.7	1058.5	2074.3	5755.0	6871.4	7283.4	6764.3	5529.2
77.5°	266.5	284.7	343.6	465.6	629.3	784.5	3080.3	4141.0	4354.0	4030.8	2877.0
80°	209.8	223.7	256.9	339.3	446.3	419.6	1050.0	1876.2	1999.3	1677.2	924.7
82.5°	182.0	187.3	184.1	230.1	296.5	245.1	344.6	692.5	764.2	554.4	301.8
85°	131.6	146.6	153.1	142.4	157.3	124.2	141.3	245.1	269.7	240.8	170.2
87.5°	53.5	79.2	97.4	92.0	57.8	35.3	43.9	71.7	82.4	89.9	55.7
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°	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4
2.5°	2261.6	2269.0	2274.4	2280.8	2285.1	2291.5	2304.4	2311.9	2312.9	2318.3	2317.2
5°	2281.9	2292.6	2304.4	2321.5	2340.8	2356.8	2381.4	2398.6	2405.0	2410.3	2409.3
7.5°	2325.8	2340.8	2362.2	2392.1	2420.0	2441.4	2471.3	2491.7	2512.0	2519.5	2520.6
10°	2391.1	2412.5	2443.5	2484.2	2514.1	2542.0	2573.0	2590.1	2610.5	2619.0	2623.3
12.5°	2472.4	2494.9	2535.6	2592.3	2620.1	2639.4	2650.1	2645.8	2650.1	2657.6	2659.7
15°	2565.5	2590.1	2636.2	2697.2	2716.4	2699.3	2675.8	2654.4	2651.1	2653.3	2660.8
17.5°	2675.8	2694.0	2747.5	2798.8	2784.9	2714.3	2662.9	2628.7	2611.5	2606.2	2613.7
20°	2829.9	2829.9	2873.8	2905.9	2812.8	2692.9	2612.6	2557.0	2521.6	2506.7	2503.4
22.5°	3017.2	3000.1	3027.9	3005.4	2807.4	2632.9	2521.6	2425.3	2371.8	2350.4	2347.2
25°	3254.8	3234.5	3227.0	3087.8	2768.9	2537.7	2356.8	2240.1	2193.1	2181.3	2183.4
27.5°	3613.3	3562.0	3464.6	3132.8	2698.2	2387.8	2164.2	2056.1	2029.3	2030.4	2033.6
30°	4090.7	3988.0	3749.3	3140.3	2582.6	2175.9	1967.2	1890.2	1877.3	1882.7	1900.9
32.5°	4532.7	4435.3	4040.4	3106.0	2405.0	1968.3	1790.6	1739.2	1720.0	1726.4	1735.0
35°	4879.5	4852.8	4310.1	3057.9	2186.6	1773.5	1632.2	1588.3	1550.9	1542.3	1548.7
37.5°	5207.0	5196.3	4512.4	2990.4	1970.4	1635.4	1504.8	1447.1	1392.5	1362.5	1363.6
40°	5566.7	5556.0	4645.1	2886.6	1778.8	1515.6	1390.3	1314.3	1246.9	1192.3	1197.7
42.5°	5971.2	5908.1	4708.3	2737.8	1616.2	1413.9	1297.2	1194.5	1105.6	1055.3	1058.5
45°	6413.3	6270.9	4707.2	2548.4	1479.2	1320.8	1197.7	1052.1	969.7	922.6	920.5
47.5°	6882.1	6617.7	4649.4	2338.6	1346.4	1218.0	1043.5	932.2	877.6	848.8	842.3
50°	7365.8	6942.0	4550.9	2097.8	1210.5	1101.3	947.2	871.2	829.5	802.7	793.1
52.5°	7820.7	7236.3	4432.1	1824.9	1072.4	987.9	904.4	845.5	801.7	771.7	758.8
55°	8243.5	7490.0	4264.1	1545.5	960.1	911.9	884.1	834.8	784.5	749.2	735.3
57.5°	8619.2	7654.8	3974.0	1283.3	879.8	859.5	862.7	816.6	758.8	728.9	709.6
60°	8931.7	7775.8	3544.8	1040.3	814.5	808.1	829.5	782.4	715.0	680.7	665.7
62.5°	9119.0	7773.6	3018.3	852.0	758.8	761.0	785.6	739.6	671.1	639.0	629.3
65°	9102.9	7583.1	2440.3	728.9	705.3	707.5	739.6	692.5	634.7	615.4	614.4
67.5°	8780.8	7118.6	1872.0	648.6	646.5	656.1	693.6	660.4	612.2	610.1	613.3
70°	7908.5	6154.3	1348.6	584.4	585.5	599.4	648.6	640.0	600.4	604.7	603.7
72.5°	6341.6	4692.2	905.5	517.0	518.0	540.5	605.8	624.0	588.7	645.4	654.0
75°	4223.4	2926.2	582.2	445.2	446.3	475.2	568.3	592.9	556.6	643.3	648.6
77.5°	2029.3	1315.4	421.7	374.6	374.6	401.4	491.3	530.9	474.1	499.8	458.1
80°	701.0	494.5	331.8	301.8	295.4	313.6	414.2	460.2	408.9	376.7	353.2
82.5°	276.1	256.9	266.5	234.4	213.0	224.8	322.2	380.0	300.8	271.9	270.8
85°	158.4	167.0	188.4	155.2	123.1	138.1	236.5	272.9	226.9	200.1	204.4
87.5°	42.8	58.9	86.7	80.3	55.7	58.9	112.4	150.9	130.6	100.6	103.8
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)