

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: P964518

Luminaire Tested: **NAV-SB3C-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-727-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21321 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

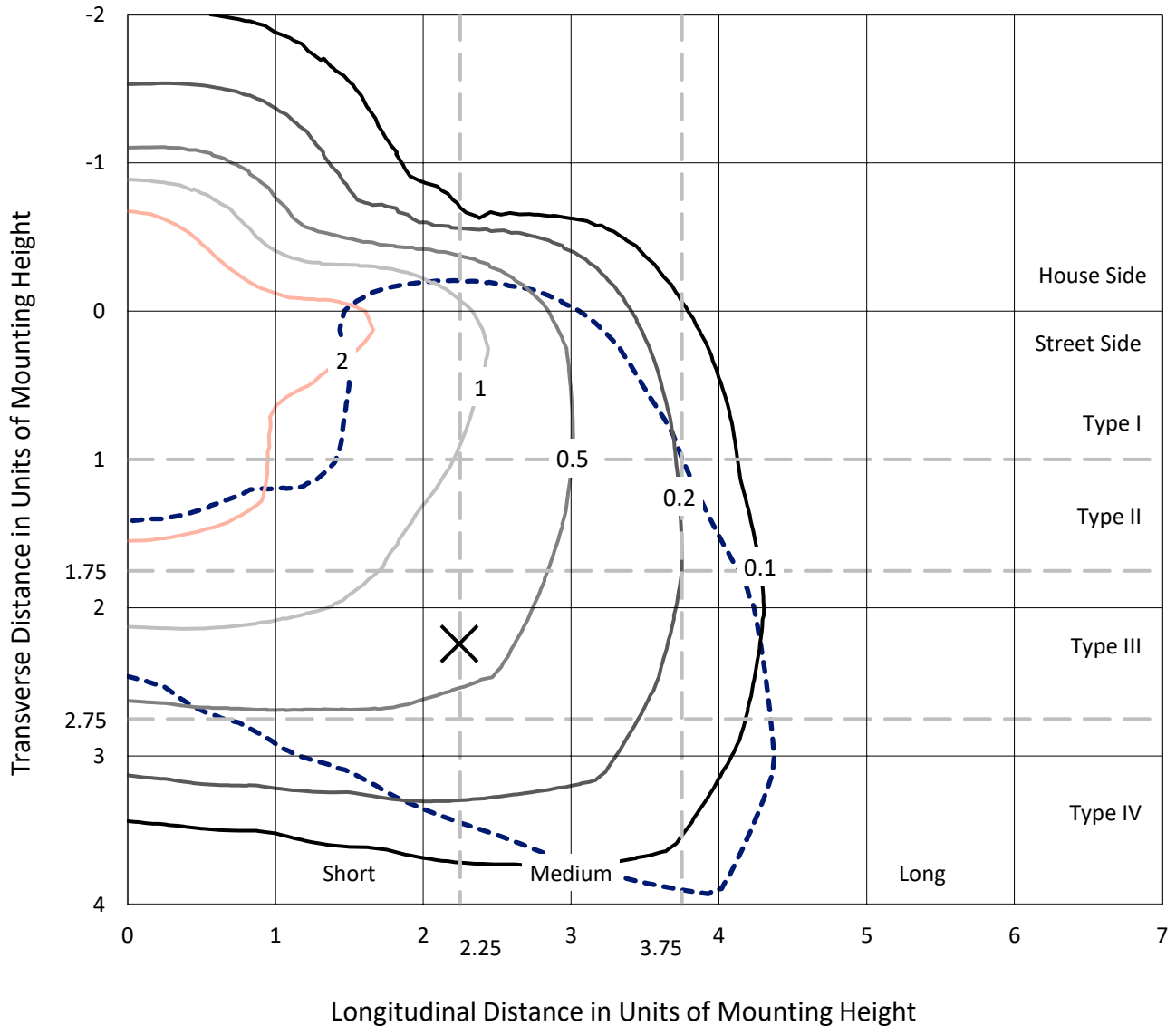
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

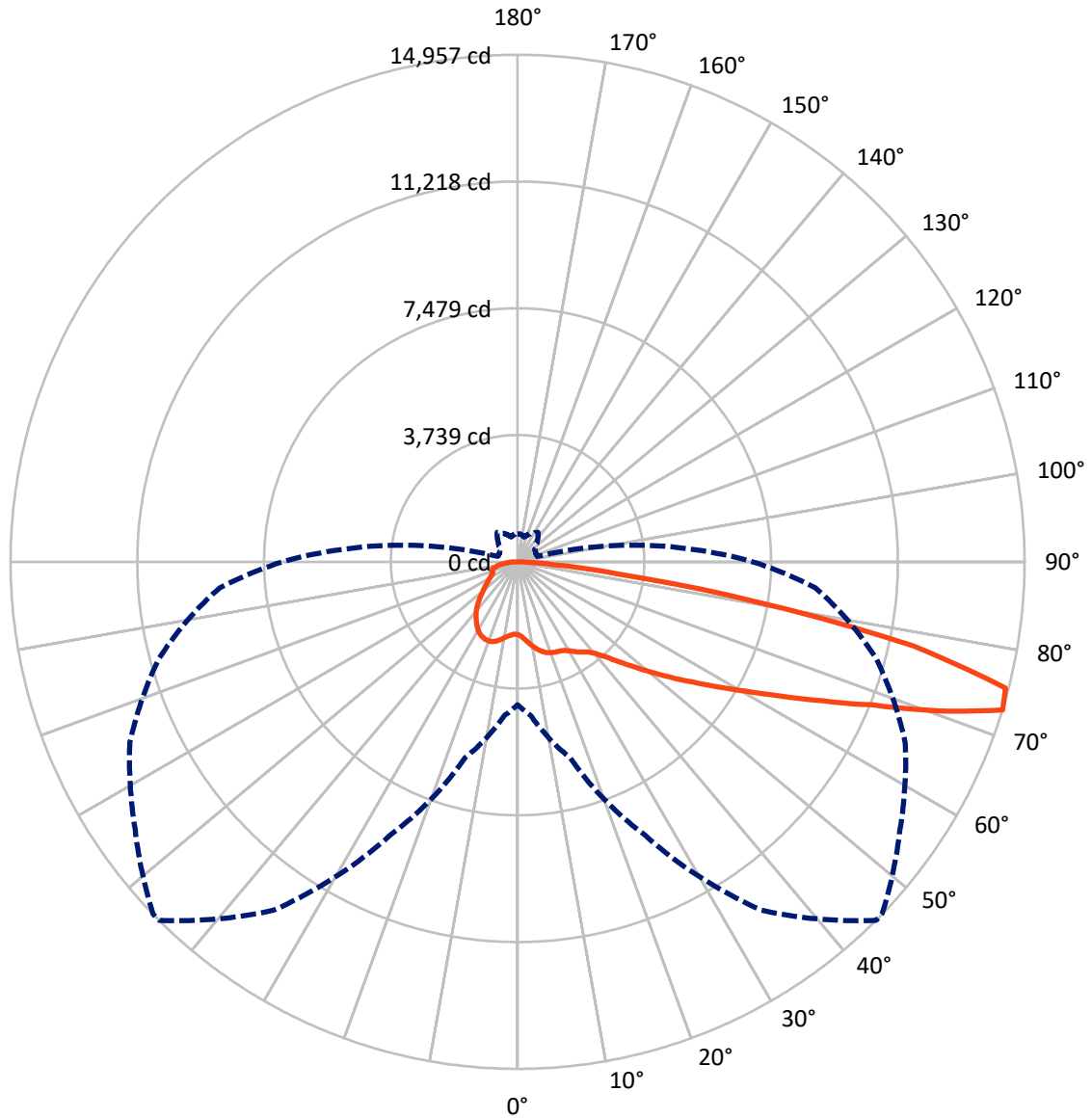
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4820.0	0.0	4820.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16501.1	0.0	16501.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	21321.0	0.0	21321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	1.0
10°-20°	729.9	3.4
20°-30°	1269.7	6.0
30°-40°	1820.2	8.5
40°-50°	2562.9	12.0
50°-60°	3925.6	18.4
60°-70°	5686.9	26.7
70°-80°	4541.3	21.3
80°-90°	565.6	2.7
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°	21321.0	100.0
0°-180°	21321.0	100.0

Coefficient of Utilization

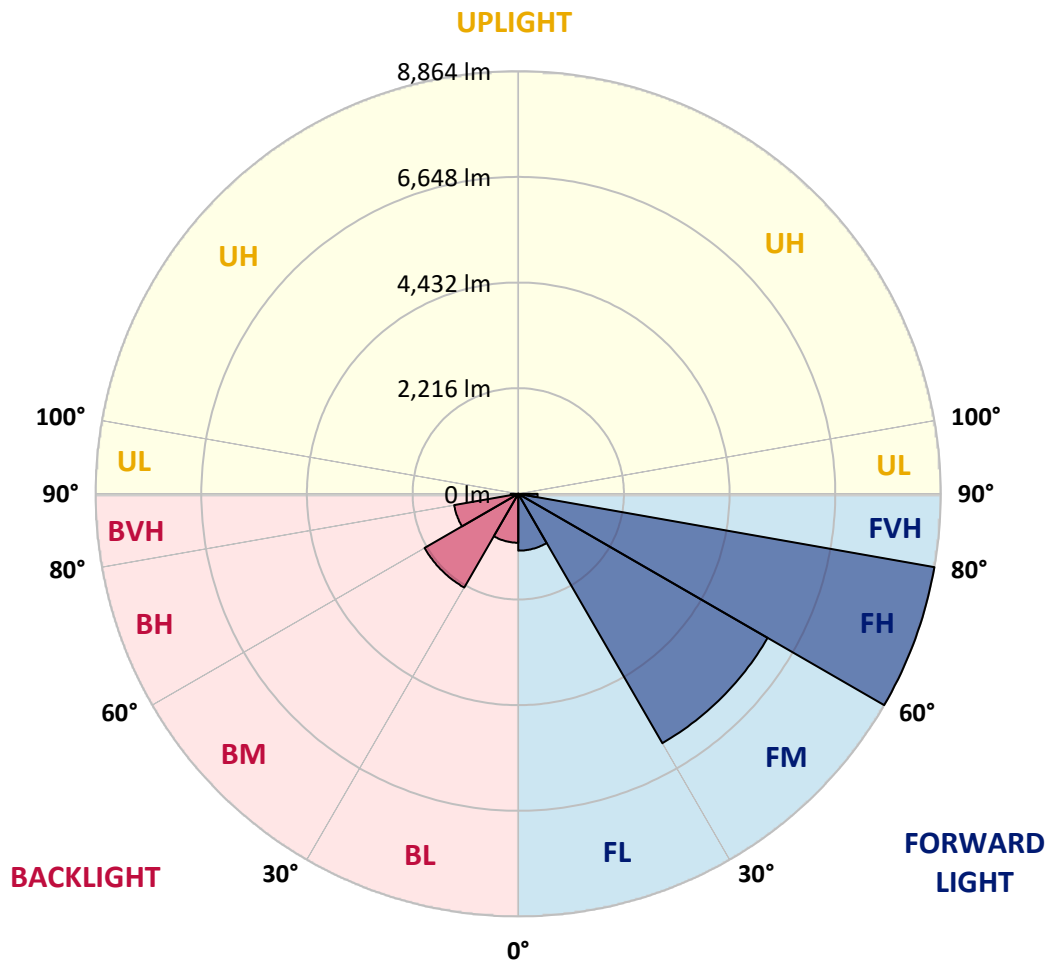


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1192.3	5.6			
FM (30°-60°)	6039.2	28.3			
FH (60°-80°)	8863.8	41.6			G4/12000
FVH (80°-90°)	405.8	1.9			G3/500
BL (0°-30°)	1026.2	4.8	B3/2500		
BM (30°-60°)	2269.5	10.6	B2/2500		
BH (60°-80°)	1364.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	159.8	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2150.9	2150.9	2150.9	2150.9	2150.9	2150.9	2150.9	2150.9	2150.9	2150.9	2150.9
2.5°	2235.1	2249.7	2236.2	2223.8	2218.3	2203.6	2202.5	2193.6	2188.0	2172.2	2167.8
5°	2391.2	2410.3	2387.8	2363.1	2340.7	2304.7	2300.3	2274.5	2245.3	2211.5	2192.5
7.5°	2567.5	2584.4	2558.6	2521.5	2482.2	2422.7	2421.6	2374.4	2328.3	2271.1	2238.5
10°	2721.5	2743.9	2709.1	2658.5	2609.1	2541.7	2533.9	2480.0	2421.6	2347.5	2298.0
12.5°	2857.4	2873.1	2839.4	2777.6	2720.4	2652.9	2642.9	2583.3	2518.1	2434.0	2371.0
15°	2965.2	2985.4	2940.4	2874.2	2813.5	2747.3	2738.3	2684.4	2619.3	2530.5	2449.6
17.5°	3035.9	3052.8	3006.7	2932.6	2874.2	2819.2	2812.4	2767.5	2710.2	2620.4	2533.9
20°	3062.9	3080.8	3032.6	2957.3	2903.4	2860.7	2857.4	2824.8	2785.4	2703.4	2615.9
22.5°	3089.9	3106.7	3043.8	2965.2	2918.0	2891.0	2889.9	2868.6	2852.9	2785.4	2700.2
25°	3198.8	3203.3	3119.1	3005.6	2938.3	2914.6	2913.5	2912.4	2919.1	2866.3	2791.1
27.5°	3293.1	3292.0	3220.1	3113.4	3009.0	2959.6	2958.5	2969.6	2991.1	2947.2	2885.5
30°	3431.3	3419.0	3333.6	3222.4	3126.9	3050.5	3043.8	3033.7	3050.5	3015.8	2979.8
32.5°	3724.4	3685.1	3547.0	3349.3	3224.6	3166.2	3157.2	3094.4	3101.0	3079.7	3061.8
35°	4144.5	4092.8	3908.6	3589.7	3345.9	3262.8	3258.4	3178.6	3165.1	3146.0	3152.8
37.5°	4644.3	4580.3	4365.8	3937.8	3554.8	3375.1	3368.4	3296.5	3241.5	3221.3	3259.4
40°	5146.4	5065.5	4888.0	4362.4	3862.6	3562.7	3541.4	3432.4	3369.5	3335.9	3416.7
42.5°	5633.8	5566.5	5414.8	4838.6	4242.3	3836.8	3789.6	3603.2	3555.9	3524.6	3670.5
45°	6065.1	6004.4	5893.3	5347.4	4687.0	4209.7	4163.7	3859.2	3844.7	3844.7	4055.8
47.5°	6415.6	6402.0	6284.2	5866.4	5211.5	4634.2	4554.5	4215.3	4254.6	4315.2	4602.8
50°	6804.2	6767.2	6641.3	6377.3	5828.2	5120.6	5055.4	4652.2	4799.4	4965.5	5393.4
52.5°	7161.4	7181.6	7041.1	6909.7	6524.5	5663.0	5548.4	5167.7	5485.6	5760.7	6320.0
55°	7528.6	7529.8	7490.4	7472.5	7254.5	6262.9	6137.0	5787.7	6293.1	6634.6	7400.6
57.5°	7873.4	7875.7	7934.1	8092.5	8101.5	6954.7	6812.0	6549.2	7190.6	7538.8	8514.8
60°	8181.2	8196.9	8356.4	8727.1	8846.2	7747.7	7612.9	7448.9	8118.3	8468.8	9686.2
62.5°	8284.6	8341.8	8696.7	9223.5	9581.8	8720.3	8587.8	8490.1	9093.2	9418.9	10665.6
65°	8109.3	8240.7	8926.9	9633.5	10338.8	9876.1	9744.7	9638.0	10106.3	10413.0	11469.9
67.5°	7679.1	7848.7	8913.5	10063.7	11257.6	11266.6	11144.1	10893.7	11192.4	11310.4	11731.5
70°	6545.9	6799.6	8128.4	10224.3	12312.2	13168.1	13050.2	12405.5	12276.3	11705.7	10994.8
72.5°	4217.5	4559.0	5985.4	8902.2	12546.9	14957.3	14950.5	13770.1	12618.9	10937.5	8818.1
75°	1538.7	1747.6	2780.9	5587.8	10532.0	14866.3	14910.2	13536.5	11519.3	8448.5	5493.5
77.5°	560.5	613.3	907.5	2147.5	6477.4	11928.1	12019.0	10821.7	8199.2	4240.0	2176.7
80°	294.3	323.5	465.0	833.4	2775.4	7083.9	7226.5	6431.3	3853.6	1277.0	652.5
82.5°	162.9	176.3	260.6	452.6	1250.1	3029.2	3114.6	2540.7	1355.7	541.4	269.6
85°	87.6	93.2	122.4	247.1	611.0	1050.2	1073.8	759.2	540.3	317.9	130.3
87.5°	25.8	31.5	40.4	78.6	239.2	235.9	241.5	150.5	213.4	160.6	42.6
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°	2150.9	2150.9	2150.9	2150.9	2150.9	2150.9	2150.9	2150.9	2150.9	2150.9	2150.9
2.5°	2161.0	2157.6	2145.2	2139.7	2132.9	2131.8	2137.4	2138.6	2139.7	2140.8	2145.2
5°	2181.2	2169.9	2158.8	2152.0	2154.2	2155.4	2166.6	2174.4	2180.1	2184.6	2186.8
7.5°	2220.6	2211.5	2192.5	2191.3	2194.7	2204.8	2219.4	2237.4	2247.5	2255.3	2257.6
10°	2278.9	2262.1	2239.6	2243.0	2249.7	2264.3	2294.7	2309.2	2326.1	2340.7	2337.3
12.5°	2338.4	2323.9	2298.0	2300.3	2311.5	2337.3	2366.5	2384.5	2395.7	2407.0	2411.4
15°	2415.9	2390.1	2362.0	2362.0	2382.2	2410.3	2423.8	2438.4	2445.1	2457.5	2461.9
17.5°	2495.7	2461.9	2424.9	2422.7	2447.4	2460.9	2468.7	2471.0	2473.2	2486.8	2491.2
20°	2575.4	2538.4	2485.6	2481.1	2486.8	2484.5	2483.4	2481.1	2484.5	2501.3	2508.1
22.5°	2654.0	2611.4	2538.4	2518.1	2502.4	2481.1	2480.0	2478.9	2481.1	2497.9	2509.2
25°	2746.2	2694.5	2596.7	2536.2	2483.4	2454.2	2457.5	2458.7	2460.9	2474.4	2492.3
27.5°	2846.1	2788.8	2650.6	2530.5	2435.0	2414.8	2409.2	2412.5	2420.4	2441.8	2463.1
30°	2946.1	2878.7	2700.2	2508.1	2374.4	2346.3	2328.3	2336.2	2360.9	2382.2	2405.9
32.5°	3037.1	2969.6	2739.4	2458.7	2296.9	2253.1	2229.5	2239.6	2264.3	2272.2	2300.3
35°	3143.8	3067.4	2756.2	2380.0	2212.7	2145.2	2113.9	2099.2	2111.6	2103.7	2128.4
37.5°	3262.8	3183.0	2754.0	2276.6	2113.9	2036.3	1992.5	1937.5	1911.6	1884.7	1901.6
40°	3439.2	3324.6	2727.1	2152.0	1991.4	1920.6	1842.0	1748.8	1690.3	1637.5	1640.9
42.5°	3679.5	3521.2	2677.6	2014.9	1853.2	1787.0	1680.3	1571.3	1479.2	1391.6	1383.7
45°	4037.8	3778.4	2615.9	1869.0	1703.9	1638.7	1523.0	1400.6	1296.1	1183.9	1170.3
47.5°	4554.5	4124.3	2557.5	1702.7	1546.6	1487.1	1382.6	1269.2	1145.6	1036.7	1024.4
50°	5264.3	4620.7	2503.6	1541.0	1391.6	1346.6	1263.6	1147.9	1023.3	935.6	930.0
52.5°	6167.3	5295.8	2481.1	1384.9	1246.7	1229.9	1163.6	1055.8	937.9	863.8	858.1
55°	7204.0	6103.4	2481.1	1235.5	1119.8	1125.4	1079.3	979.4	877.2	811.0	804.2
57.5°	8262.0	6921.0	2436.1	1097.4	1012.0	1035.6	1006.3	918.7	826.7	758.2	746.9
60°	9237.0	7606.1	2254.2	971.5	916.6	953.6	934.5	859.3	746.9	689.6	680.6
62.5°	9986.2	7992.5	1903.7	871.6	837.9	880.6	870.4	780.6	732.3	708.7	700.9
65°	10361.3	7929.6	1455.6	782.9	771.6	837.9	816.5	813.1	775.0	748.0	739.0
67.5°	10131.0	7388.2	1055.8	717.7	733.4	798.6	880.6	894.0	823.3	770.5	761.5
70°	9121.3	6408.8	786.2	655.9	685.1	799.7	1004.1	935.6	807.6	745.8	735.6
72.5°	6938.9	4779.1	609.9	590.8	622.3	805.3	1059.1	916.6	762.6	824.4	817.6
75°	3968.2	2623.7	489.7	511.1	543.7	752.6	1031.0	867.0	727.9	757.1	757.1
77.5°	1512.9	1008.6	404.4	432.4	437.0	657.0	986.2	863.8	693.0	676.2	616.6
80°	524.5	394.2	334.7	343.7	338.0	584.0	945.7	751.4	567.2	507.7	490.9
82.5°	214.5	196.6	265.1	253.8	240.4	453.8	763.7	614.4	463.9	410.0	405.5
85°	93.2	124.6	175.2	153.9	139.3	314.5	612.1	520.0	392.0	338.0	336.9
87.5°	19.1	47.2	74.1	69.6	71.9	210.0	434.7	369.5	277.5	207.8	162.9
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)