

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: P883314

Luminaire Tested: **NAV-SB3C-835-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-835-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18788 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

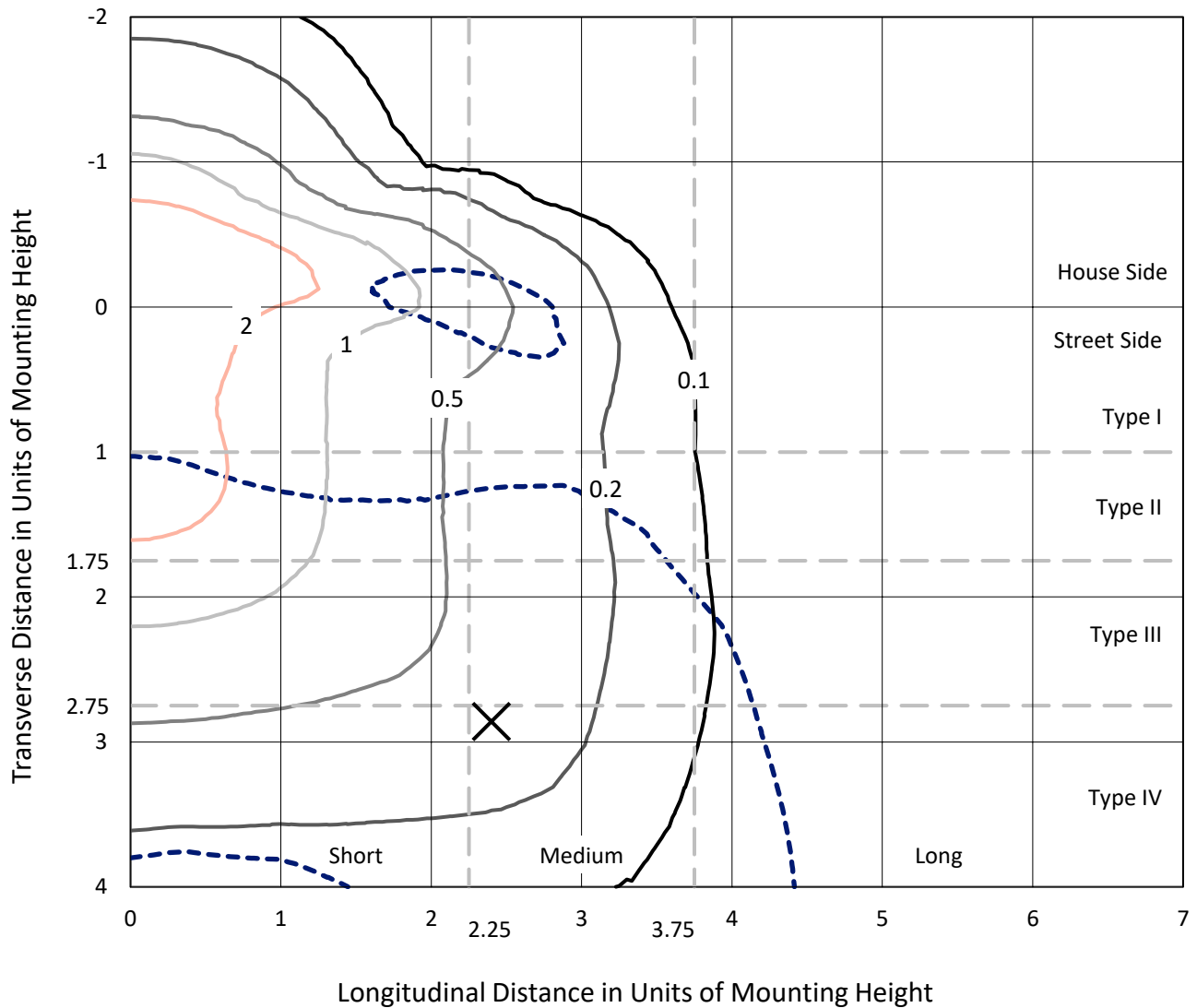
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

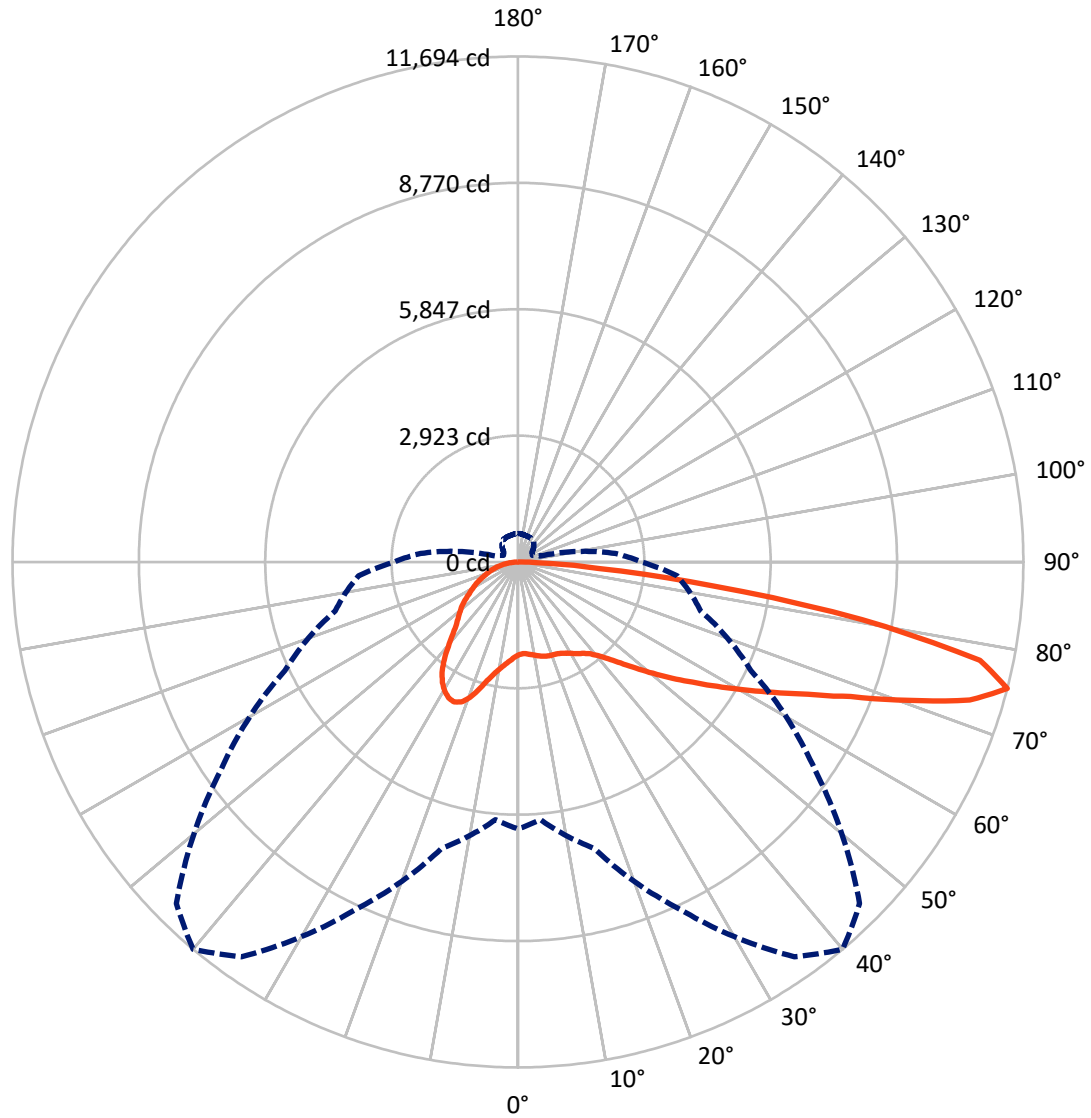
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5821.1	0.0	5821.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	12966.8	0.0	12966.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	18788.0	0.0	18788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.5	1.1
10°-20°	720.0	3.8
20°-30°	1314.7	7.0
30°-40°	1864.6	9.9
40°-50°	2517.8	13.4
50°-60°	3387.1	18.0
60°-70°	4299.0	22.9
70°-80°	3901.6	20.8
80°-90°	568.7	3.0
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°	18788.0	100.0
0°-180°	18788.0	100.0

Coefficient of Utilization



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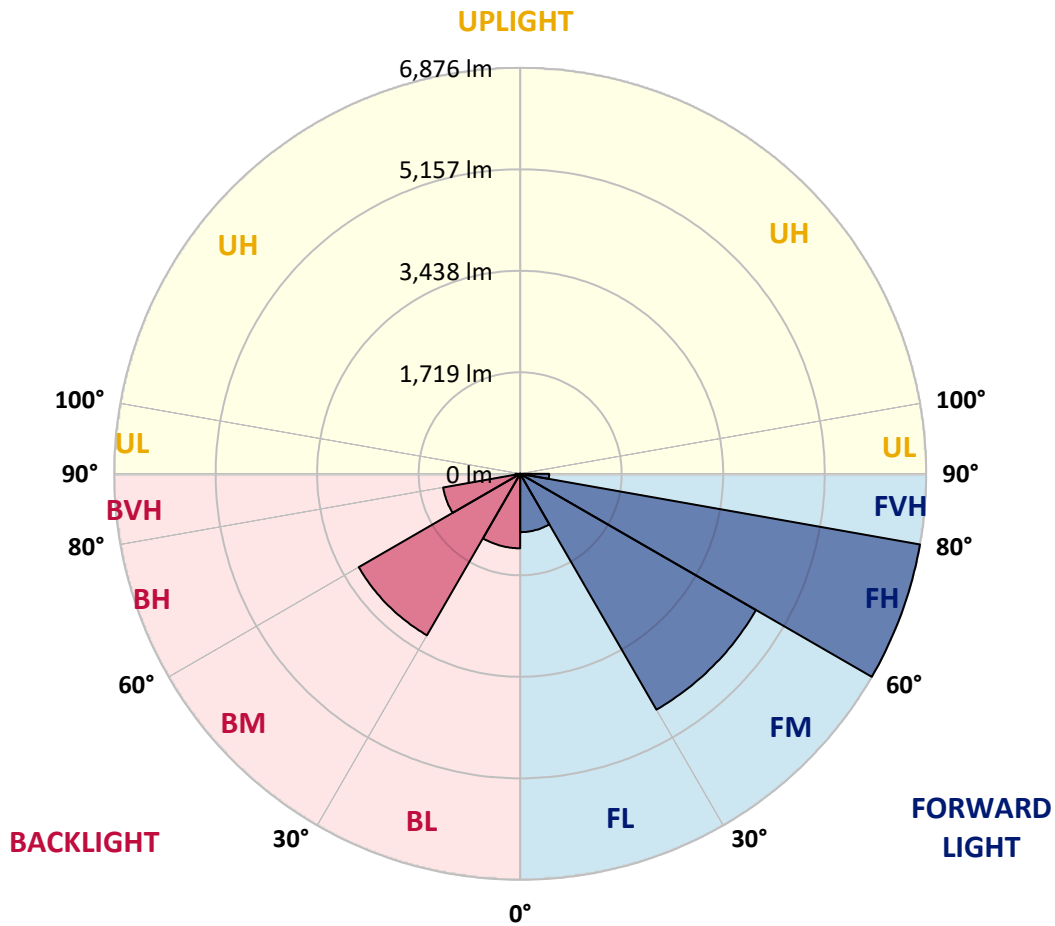
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	988.3	5.3			
FM (30°-60°)	4612.0	24.5			
FH (60°-80°)	6876.1	36.6			G3/7500
FVH (80°-90°)	490.4	2.6			G3/500
BL (0°-30°)	1260.9	6.7	B3/2500		
BM (30°-60°)	3157.4	16.8	B3/5000		
BH (60°-80°)	1324.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	78.3	0.4			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4
2.5°	2115.5	2127.5	2124.5	2120.5	2120.5	2121.5	2120.5	2127.5	2134.5	2141.5	2152.4
5°	2137.5	2149.4	2143.5	2138.5	2134.5	2133.5	2130.5	2129.5	2133.5	2142.5	2157.4
7.5°	2180.3	2192.3	2183.3	2174.3	2166.4	2162.4	2158.4	2152.4	2149.4	2154.4	2175.3
10°	2228.2	2240.1	2229.1	2213.2	2200.3	2195.3	2191.3	2185.3	2181.3	2184.3	2207.2
12.5°	2276.0	2287.9	2273.0	2251.1	2234.1	2231.1	2226.2	2224.2	2223.2	2222.2	2245.1
15°	2320.8	2330.8	2311.9	2285.9	2268.0	2263.0	2258.0	2261.0	2266.0	2272.0	2297.9
17.5°	2355.7	2365.7	2337.8	2303.9	2286.9	2285.0	2282.0	2291.9	2305.9	2320.8	2352.7
20°	2387.6	2397.6	2361.7	2315.8	2295.9	2295.9	2296.9	2317.8	2337.8	2359.7	2403.5
22.5°	2432.4	2440.4	2396.6	2333.8	2304.9	2306.9	2314.8	2335.8	2360.7	2390.6	2451.4
25°	2499.2	2505.2	2451.4	2367.7	2334.8	2340.8	2347.7	2357.7	2381.6	2416.5	2498.2
27.5°	2606.8	2611.8	2541.0	2427.5	2377.6	2387.6	2397.6	2390.6	2401.5	2431.4	2536.1
30°	2758.3	2761.3	2671.6	2521.1	2450.4	2455.4	2457.3	2428.4	2407.5	2431.4	2563.0
32.5°	2937.7	2936.7	2830.0	2634.7	2533.1	2528.1	2511.2	2454.4	2405.5	2426.5	2586.9
35°	3215.7	3204.7	3067.2	2794.2	2626.7	2595.9	2556.0	2483.3	2415.5	2421.5	2607.8
37.5°	3676.1	3642.2	3451.8	3055.2	2766.3	2687.5	2628.7	2530.1	2437.4	2419.5	2632.7
40°	4195.2	4152.4	3943.1	3413.0	2975.5	2849.0	2754.3	2596.9	2473.3	2428.4	2669.6
42.5°	4811.1	4750.3	4525.1	3834.5	3240.6	3057.2	2914.7	2681.6	2526.1	2457.3	2719.4
45°	5567.4	5486.7	5167.8	4309.8	3574.4	3330.3	3139.9	2810.1	2606.8	2513.1	2794.2
47.5°	6331.7	6351.6	5898.2	4853.9	3975.0	3667.1	3421.9	3003.4	2724.4	2602.8	2914.7
50°	7143.8	7157.8	6624.7	5456.8	4429.4	4047.7	3738.8	3219.7	2887.8	2730.4	3095.1
52.5°	7777.6	7779.6	7284.3	6087.6	4902.7	4466.3	4080.6	3466.8	3077.2	2899.8	3335.3
55°	8174.2	8169.2	7746.7	6684.5	5446.8	4905.7	4459.3	3747.8	3308.3	3099.1	3637.2
57.5°	8462.2	8447.2	8065.6	7197.6	6026.8	5424.9	4887.8	4066.7	3581.4	3336.2	4034.8
60°	8571.8	8562.8	8281.8	7641.1	6636.6	5998.9	5382.0	4423.4	3891.3	3616.3	4546.0
62.5°	8613.7	8630.6	8494.1	8070.6	7289.3	6634.6	5925.1	4849.9	4240.1	3933.1	5085.1
65°	8761.1	8792.0	8764.1	8632.6	8026.7	7379.0	6645.6	5357.1	4620.7	4272.9	5648.1
67.5°	9053.1	9084.0	9096.0	9305.2	8927.6	8306.7	7544.4	5988.9	5066.2	4625.7	6071.6
70°	9046.1	9037.2	9248.4	9840.3	10055.6	9591.2	8756.2	6766.2	5597.3	4918.7	6125.4
72.5°	8234.0	8162.3	8661.5	9834.4	10994.3	10932.5	10235.9	7768.6	6055.7	4954.5	5315.3
75°	6177.2	5985.9	6867.8	8862.8	11150.7	11693.8	11176.6	8390.4	5947.1	4377.6	3699.0
77.5°	2641.7	2449.4	3488.7	6560.9	9979.8	10931.5	10313.7	7320.2	4747.3	2894.8	1816.6
80°	691.6	690.6	1054.3	2974.5	6787.1	8072.6	7082.1	4727.3	2712.4	1034.4	501.2
82.5°	286.0	279.0	387.6	1156.9	3316.3	4530.0	3697.0	2108.6	979.5	280.0	166.4
85°	106.6	105.6	188.3	399.6	1169.9	1868.4	1352.2	539.1	244.1	136.5	74.7
87.5°	29.9	28.9	40.9	138.5	285.0	432.5	231.2	88.7	68.8	53.8	21.9
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°	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4	2148.4
2.5°	2155.4	2160.4	2169.4	2176.3	2185.3	2195.3	2209.2	2218.2	2227.2	2233.1	2229.1
5°	2164.4	2175.3	2198.3	2221.2	2248.1	2273.0	2301.9	2322.8	2339.8	2344.7	2346.7
7.5°	2184.3	2202.2	2241.1	2280.0	2322.8	2363.7	2405.5	2441.4	2470.3	2481.3	2482.3
10°	2219.2	2243.1	2297.9	2352.7	2409.5	2472.3	2526.1	2577.9	2618.8	2635.7	2636.7
12.5°	2263.0	2292.9	2364.7	2440.4	2519.1	2605.8	2675.6	2739.4	2790.2	2813.1	2813.1
15°	2319.8	2358.7	2450.4	2552.0	2667.6	2788.2	2876.9	2947.6	3004.4	3032.3	3030.3
17.5°	2381.6	2433.4	2549.0	2702.5	2867.9	3026.3	3130.0	3181.8	3240.6	3267.5	3266.5
20°	2441.4	2505.2	2670.6	2893.8	3114.0	3282.4	3366.1	3380.1	3384.1	3387.1	3395.0
22.5°	2503.2	2588.9	2823.1	3135.0	3371.1	3487.7	3499.7	3439.9	3356.2	3317.3	3328.3
25°	2570.9	2684.5	3022.4	3401.0	3592.3	3606.3	3514.6	3369.1	3210.7	3137.9	3148.9
27.5°	2636.7	2795.2	3261.5	3655.1	3751.8	3629.2	3431.9	3225.6	3034.3	2957.6	2966.6
30°	2702.5	2921.7	3525.6	3877.3	3824.5	3572.4	3301.4	3071.2	2878.9	2798.1	2807.1
32.5°	2769.2	3069.2	3829.5	4037.8	3811.6	3451.8	3138.9	2897.8	2728.4	2643.7	2654.6
35°	2845.0	3250.6	4117.5	4125.5	3724.9	3274.5	2924.7	2690.5	2543.0	2475.3	2490.2
37.5°	2943.6	3480.7	4371.6	4147.4	3573.4	3014.4	2658.6	2445.4	2323.8	2292.9	2314.8
40°	3066.2	3757.8	4565.9	4112.5	3349.2	2698.5	2367.7	2197.3	2128.5	2135.5	2159.4
42.5°	3225.6	4067.7	4702.4	4022.8	3037.3	2372.6	2112.6	2036.8	2069.7	2097.6	2123.5
45°	3432.9	4389.5	4787.1	3870.4	2684.5	2096.6	1962.1	1980.0	2004.9	2007.9	2027.9
47.5°	3698.0	4715.4	4842.9	3640.2	2324.8	1902.3	1866.4	1870.4	1865.4	1844.5	1860.4
50°	4028.8	5032.3	4892.8	3335.3	2018.9	1780.7	1732.9	1718.9	1650.2	1582.4	1591.4
52.5°	4405.5	5323.3	4913.7	2956.6	1780.7	1679.1	1601.4	1513.7	1385.1	1364.2	1371.2
55°	4824.0	5592.3	4859.9	2491.2	1580.4	1548.5	1431.0	1325.3	1311.4	1293.4	1296.4
57.5°	5324.2	5882.3	4750.3	1972.1	1375.2	1396.1	1281.5	1293.4	1268.5	1240.6	1235.6
60°	5871.3	6182.2	4557.9	1498.7	1162.9	1205.8	1242.6	1241.6	1234.7	1211.7	1203.8
62.5°	6363.6	6379.5	4179.3	1148.0	976.6	1058.3	1158.9	1157.9	1151.9	1139.0	1134.0
65°	6656.6	6349.6	3547.5	903.8	823.1	936.7	1045.3	1053.3	1054.3	1053.3	1053.3
67.5°	6604.7	5999.9	2680.6	719.5	696.5	813.1	932.7	943.7	951.6	953.6	955.6
70°	6018.8	5231.6	1747.8	574.0	583.9	704.5	826.1	837.1	844.0	852.0	856.0
72.5°	4691.5	3846.5	1000.5	464.4	485.3	610.8	720.5	733.4	737.4	752.4	758.3
75°	2858.9	2262.0	540.1	365.7	398.6	522.2	615.8	630.8	637.8	655.7	657.7
77.5°	1359.2	979.5	307.9	285.0	320.9	426.5	520.2	537.1	518.2	528.1	520.2
80°	459.4	363.7	194.3	217.2	245.1	332.8	416.5	433.5	393.6	391.6	387.6
82.5°	160.4	147.5	123.6	144.5	158.4	238.2	314.9	336.8	293.0	292.0	278.0
85°	62.8	59.8	68.8	78.7	94.7	146.5	207.3	218.2	180.4	145.5	143.5
87.5°	13.0	14.0	16.9	17.9	28.9	50.8	74.7	91.7	72.7	61.8	56.8
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)