

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: P968696

Luminaire Tested: **NAV-SB5C-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25122.8 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

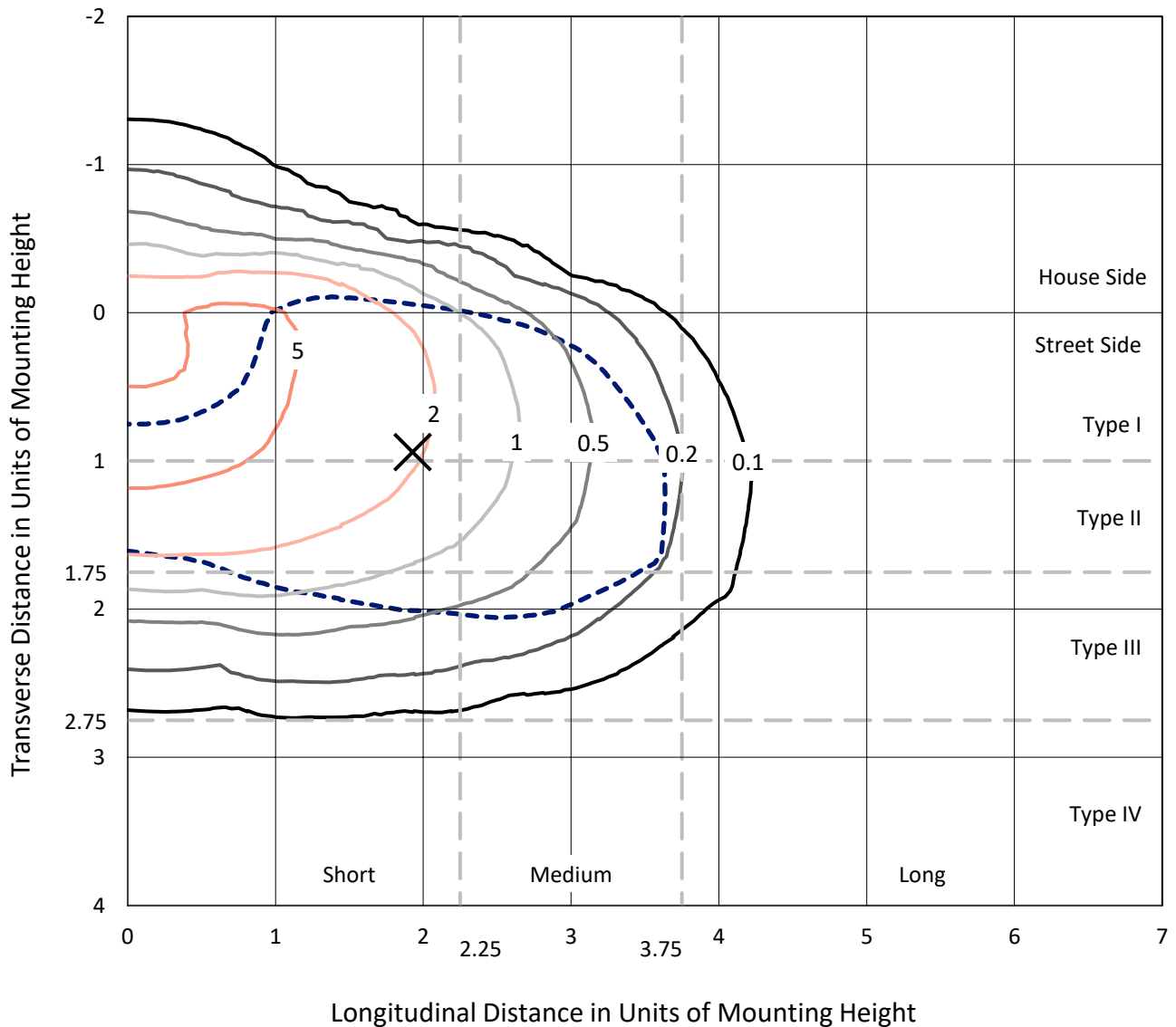
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

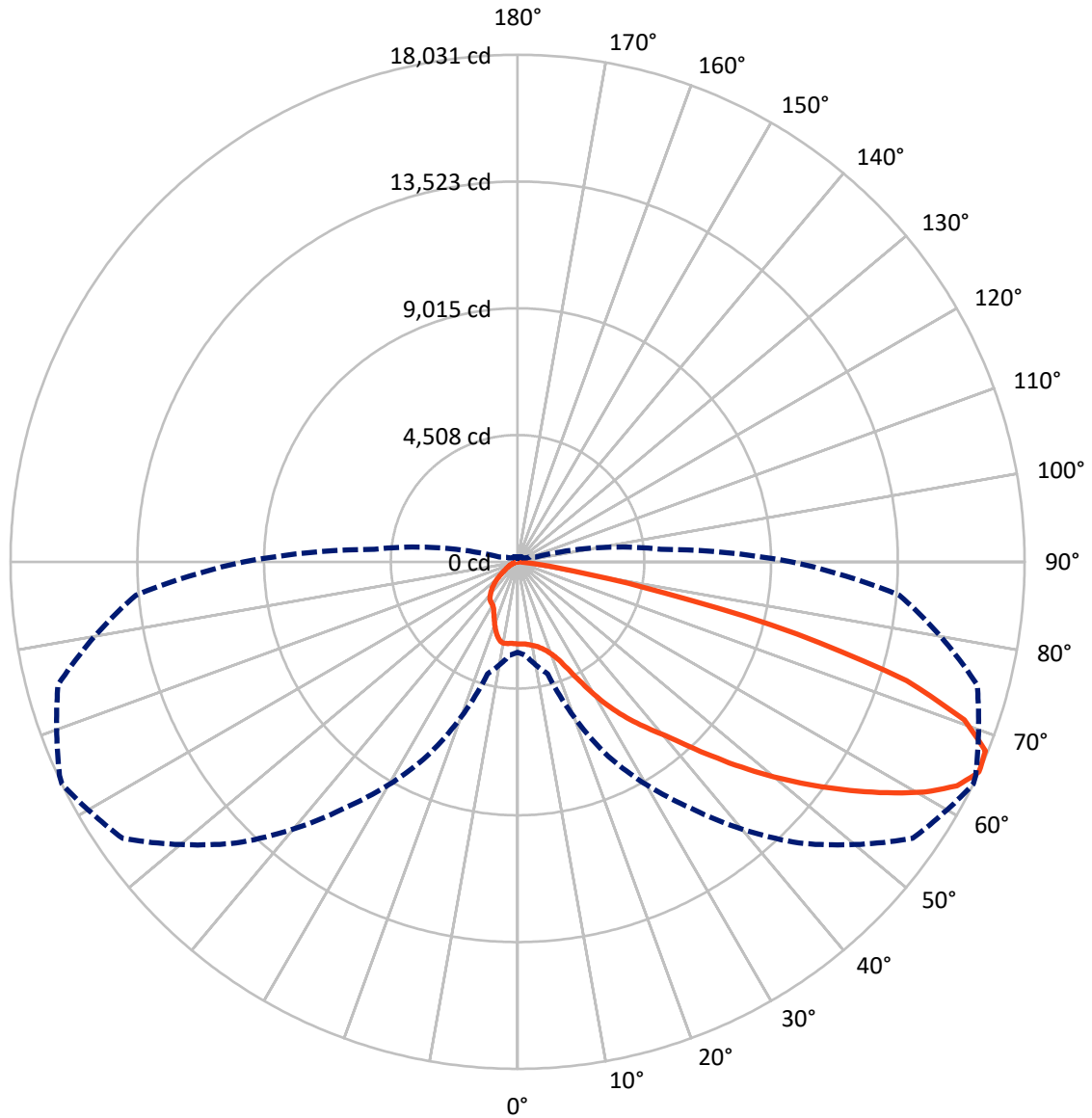
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3359.7	0.0	3359.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21763.1	0.0	21763.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	25122.8	0.0	25122.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.6	1.1
10°-20°	731.2	2.9
20°-30°	1385.6	5.5
30°-40°	2803.7	11.2
40°-50°	4776.1	19.0
50°-60°	6495.2	25.9
60°-70°	6099.3	24.3
70°-80°	2443.6	9.7
80°-90°	118.4	0.5
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°	25122.8	100.0
0°-180°	25122.8	100.0

Coefficient of Utilization



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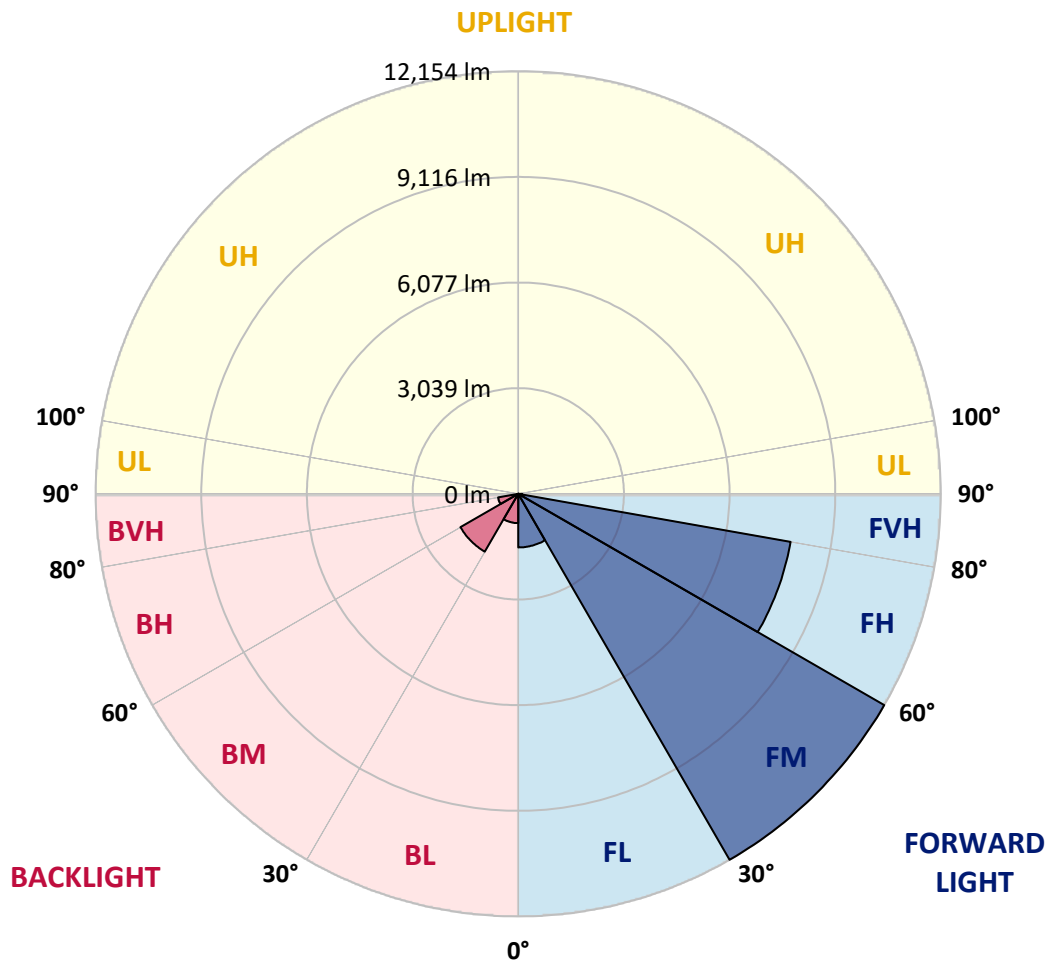
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1542.8	6.1			
FM (30°-60°)	12154.4	48.4			
FH (60°-80°)	7953.3	31.7			G4/12000
FVH (80°-90°)	112.6	0.4			G2/225
BL (0°-30°)	843.5	3.4	B2/1000		
BM (30°-60°)	1920.7	7.6	B2/2500		
BH (60°-80°)	589.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.8	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1
2.5°	2911.9	2932.1	2927.1	2922.1	2920.3	2923.7	2925.5	2923.7	2923.7	2923.7	2925.5
5°	2856.4	2873.2	2873.2	2885.0	2901.9	2922.1	2937.2	2940.5	2943.9	2949.0	2947.3
7.5°	2750.3	2763.7	2773.9	2812.6	2854.6	2908.5	2954.0	2977.6	2981.0	2999.5	3006.2
10°	2677.8	2694.6	2711.5	2751.9	2812.6	2893.4	2970.9	3028.2	3036.6	3080.3	3100.5
12.5°	2674.4	2691.3	2713.2	2756.9	2827.8	2913.7	3008.0	3090.5	3105.6	3169.6	3211.7
15°	2709.8	2730.1	2750.3	2804.2	2879.9	2984.4	3085.4	3188.2	3203.3	3294.2	3339.8
17.5°	2782.3	2809.2	2824.4	2878.2	2959.1	3075.3	3208.4	3326.2	3339.8	3445.8	3503.0
20°	2925.5	2957.4	2962.5	3006.2	3085.4	3210.0	3368.4	3514.8	3531.7	3653.0	3717.0
22.5°	3221.8	3267.3	3226.9	3248.7	3319.5	3444.1	3615.9	3801.2	3824.8	3962.9	4020.2
25°	3743.9	3807.9	3703.5	3666.4	3696.8	3826.4	4042.0	4276.1	4303.1	4414.2	4442.9
27.5°	4769.5	4687.0	4528.8	4373.8	4282.9	4357.0	4599.5	4889.1	4922.9	5030.6	4997.0
30°	5896.3	5823.8	5609.9	5266.4	5050.8	5039.0	5263.1	5586.4	5625.1	5727.9	5625.1
32.5°	7024.6	6955.6	6723.2	6300.5	5926.5	5741.3	5896.3	6255.0	6275.3	6340.9	6189.4
35°	8134.5	8063.8	7831.4	7398.6	6938.7	6517.8	6487.4	6891.6	6898.4	6967.4	6741.7
37.5°	9251.1	9192.2	8944.7	8520.2	8067.2	7486.2	7204.9	7494.6	7503.0	7570.3	7336.2
40°	10047.8	10073.0	9902.9	9574.5	9185.4	8550.6	8010.0	8136.2	8085.7	8198.6	8058.8
42.5°	10731.5	10782.1	10633.9	10468.8	10243.1	9684.0	9007.0	8985.0	8904.2	8964.9	8820.0
45°	11322.7	11364.8	11231.7	11193.0	11188.0	10795.5	10096.6	9965.3	9852.4	9840.6	9667.2
47.5°	11540.0	11620.7	11678.0	11807.7	12060.4	11895.3	11223.3	11019.6	10893.2	10800.6	10526.0
50°	11622.5	11708.4	11903.7	12280.9	12878.8	12949.5	12345.0	12115.9	11961.0	11792.5	11388.4
52.5°	11511.3	11664.6	11927.3	12562.2	13429.6	13795.1	13421.1	13220.8	13043.9	12769.3	12169.8
55°	10856.2	11009.4	11546.7	12558.8	13704.1	14387.8	14438.4	14349.2	14150.4	13717.6	12801.4
57.5°	9475.1	9702.5	10553.0	12131.1	13699.0	14898.2	15435.5	15499.4	15277.1	14657.3	13298.2
60°	7561.9	7870.2	8907.6	11182.9	13276.3	15174.4	16309.5	16629.5	16393.7	15583.6	13700.8
62.5°	5276.5	5633.5	6615.5	9697.4	12309.6	14975.7	16947.9	17539.0	17360.4	16412.2	13855.6
65°	3218.5	3333.0	4124.5	7631.0	10665.8	14143.7	17144.9	18030.8	17971.8	16919.2	13626.7
67.5°	2144.0	2239.9	2467.3	5232.7	8279.3	12481.4	16673.3	17944.9	17961.7	16836.6	12787.9
70°	1291.8	1374.3	1522.5	3043.3	5365.8	9879.4	15213.2	16850.2	16947.9	15733.5	11198.0
72.5°	532.2	587.7	722.5	1379.3	2778.9	6270.1	12114.3	14467.1	14694.4	13229.2	8594.3
75°	301.5	330.0	424.5	692.2	1205.9	2922.1	7338.0	10270.1	10605.3	9118.1	5170.4
77.5°	200.4	213.9	274.5	448.0	678.8	997.0	3135.9	5350.6	5990.6	4980.1	2238.3
80°	134.7	146.5	188.6	299.8	441.3	427.7	998.8	1982.2	2438.7	1711.1	545.7
82.5°	90.9	92.7	134.7	197.0	279.6	207.2	294.7	616.4	774.7	495.2	207.2
85°	52.2	50.5	99.3	114.5	124.6	85.9	89.3	185.2	242.5	208.8	117.9
87.5°	6.8	10.1	38.7	30.3	16.8	18.6	18.6	32.0	47.2	50.5	25.2
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°	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1	2922.1
2.5°	2925.5	2923.7	2918.7	2913.7	2901.9	2895.1	2898.5	2895.1	2893.4	2895.1	2901.9
5°	2947.3	2942.3	2928.7	2911.9	2888.3	2859.7	2841.2	2814.2	2789.0	2773.9	2777.2
7.5°	3006.2	3001.2	2982.6	2935.5	2859.7	2740.1	2630.7	2534.7	2462.3	2420.1	2421.9
10°	3100.5	3092.1	3063.5	2959.1	2760.3	2499.4	2282.1	2101.9	1984.0	1928.3	1923.3
12.5°	3211.7	3201.6	3151.1	2937.2	2571.7	2164.2	1864.4	1664.0	1554.5	1505.6	1500.6
15°	3343.0	3329.6	3230.3	2832.8	2297.2	1793.6	1519.2	1369.2	1298.5	1254.7	1256.3
17.5°	3506.4	3482.8	3289.2	2676.2	1999.2	1510.7	1306.9	1194.1	1131.8	1089.7	1086.3
20°	3718.7	3680.0	3336.4	2489.2	1724.6	1332.2	1163.8	1069.5	1022.3	985.2	978.5
22.5°	4015.0	3959.5	3393.6	2287.1	1530.9	1209.2	1057.7	988.6	949.9	907.7	901.1
25°	4382.2	4316.5	3464.3	2100.1	1397.9	1103.1	980.2	922.9	877.5	828.6	823.6
27.5°	4895.9	4778.0	3548.6	1946.9	1283.3	1012.2	909.5	845.4	793.2	752.9	744.4
30°	5468.5	5274.9	3622.7	1854.2	1179.0	927.9	816.8	752.9	704.0	675.4	670.3
32.5°	6010.8	5748.1	3671.4	1813.8	1084.7	832.0	715.8	646.7	609.7	601.3	606.3
35°	6522.8	6175.8	3666.4	1775.1	1000.4	735.9	616.4	545.7	517.0	522.1	522.1
37.5°	7112.3	6632.3	3631.1	1714.5	931.3	648.4	530.5	468.2	442.9	444.6	451.3
40°	7797.7	7159.4	3609.1	1599.9	855.6	567.5	459.8	409.3	390.7	384.0	382.3
42.5°	8528.6	7669.7	3612.5	1470.3	761.3	495.2	410.9	368.8	352.0	347.0	345.2
45°	9262.9	8156.4	3617.6	1335.6	661.8	439.5	375.6	340.2	330.0	323.4	323.4
47.5°	9953.5	8570.7	3523.3	1190.7	564.2	397.5	347.0	323.4	315.0	306.5	306.5
50°	10596.8	8847.0	3295.9	1022.3	486.8	363.8	325.0	308.2	299.8	291.4	291.4
52.5°	11097.0	8890.7	2920.3	848.8	432.9	338.6	311.6	296.4	286.3	277.9	276.2
55°	11319.3	8616.3	2386.5	687.2	390.7	316.6	298.1	282.9	271.1	262.7	261.1
57.5°	11262.1	8038.6	1861.0	552.4	350.3	294.7	281.3	271.1	257.7	244.2	242.5
60°	10980.8	7265.5	1402.9	459.8	313.2	271.1	262.7	254.3	235.7	215.6	212.2
62.5°	10494.1	6293.7	1000.4	380.6	272.9	244.2	240.9	234.1	207.2	170.1	166.8
65°	9749.7	5113.1	673.6	316.6	234.1	213.9	215.6	203.8	168.4	126.3	122.9
67.5°	8661.7	3738.9	431.1	259.3	195.4	178.6	180.2	173.4	143.2	107.8	102.7
70°	7275.7	2475.7	281.3	197.0	156.6	138.1	148.2	149.9	121.3	87.5	84.3
72.5°	5333.8	1461.9	197.0	146.5	114.5	96.0	121.3	124.6	97.7	65.7	62.3
75°	3039.9	693.9	148.2	106.1	70.7	67.3	94.3	94.3	67.3	43.8	40.4
77.5°	1276.6	289.7	104.4	69.1	40.4	38.7	64.0	58.9	33.7	20.2	20.2
80°	368.8	129.7	55.6	33.7	16.8	15.2	25.2	18.6	8.4	3.4	3.4
82.5°	144.8	57.3	21.9	13.4	6.8	6.8	3.4	0.0	0.0	0.0	0.0
85°	85.9	23.6	10.1	5.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.9	5.0	3.4	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)