

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: P961891

Luminaire Tested: **NAV-SB2B-730-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-730-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11472.8 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

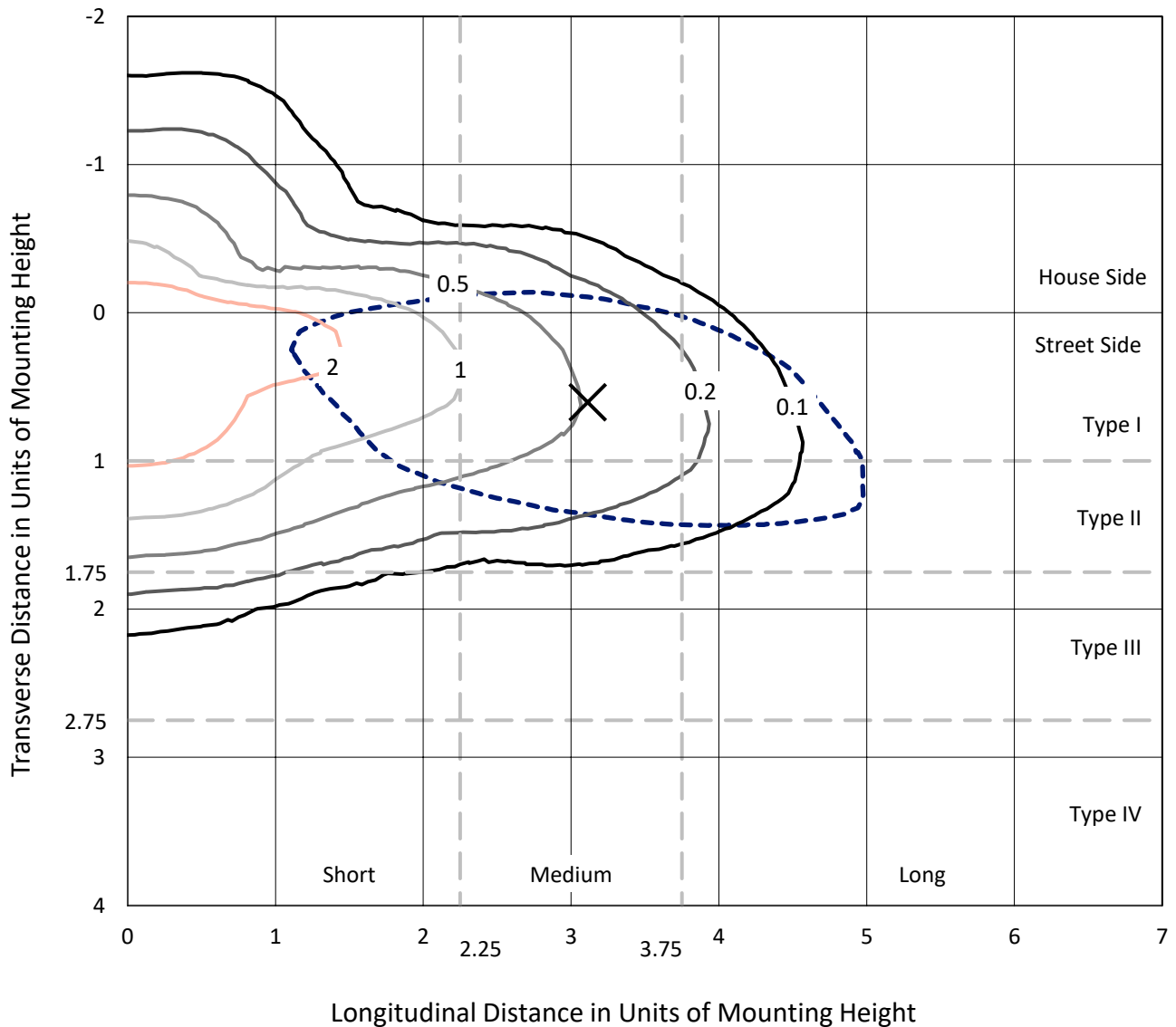
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

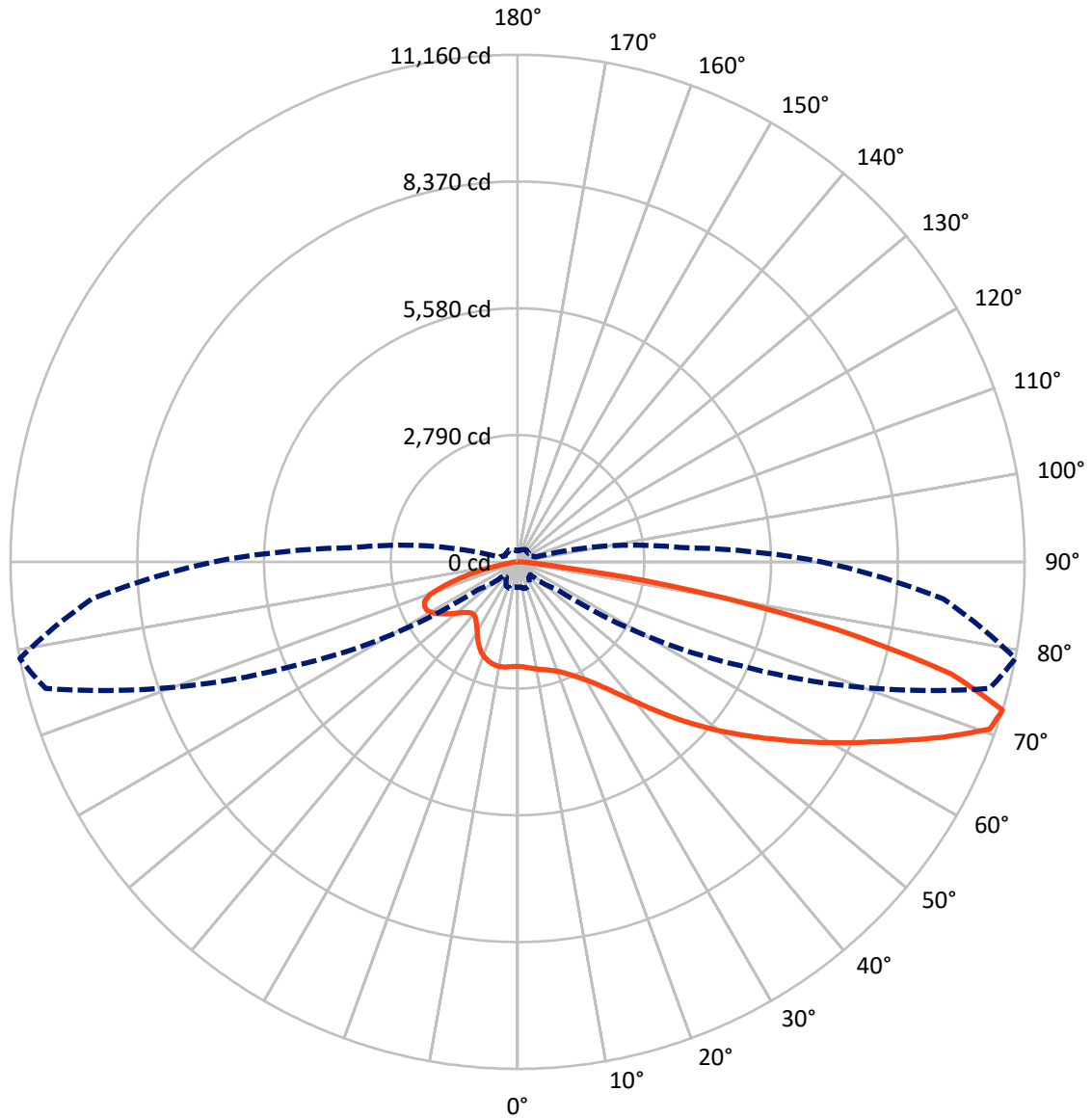
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2524.6	0.0	2524.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	8948.2	0.0	8948.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	11472.8	0.0	11472.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	1.8
10°-20°	546.6	4.8
20°-30°	881.9	7.7
30°-40°	1323.7	11.5
40°-50°	1877.7	16.4
50°-60°	2371.3	20.7
60°-70°	2408.3	21.0
70°-80°	1641.4	14.3
80°-90°	213.0	1.9
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°	11472.8	100.0
0°-180°	11472.8	100.0

Coefficient of Utilization

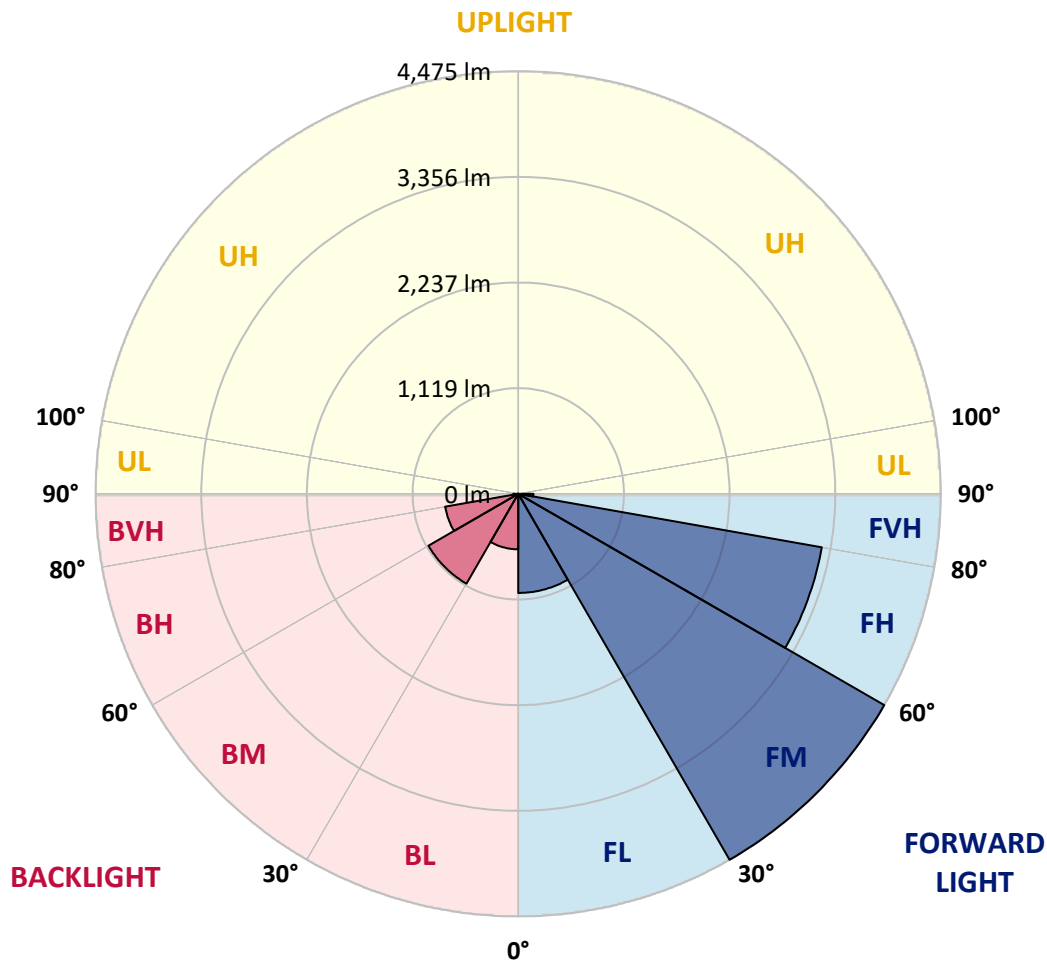


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.5	9.1			
FM (30°-60°)	4474.6	39.0			
FH (60°-80°)	3263.6	28.4			G2/5000
FVH (80°-90°)	160.4	1.4			G2/225
BL (0°-30°)	588.1	5.1	B2/1000		
BM (30°-60°)	1098.0	9.6	B2/2500		
BH (60°-80°)	786.1	6.9	B2/1000		G2/1000
BVH (80°-90°)	52.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2303.1	2303.1	2303.1	2303.1	2303.1	2303.1	2303.1	2303.1	2303.1	2303.1	2303.1
2.5°	2304.3	2293.3	2300.0	2297.6	2300.6	2304.3	2305.5	2307.3	2313.4	2312.8	2312.2
5°	2299.4	2288.5	2297.6	2294.6	2302.5	2311.0	2318.2	2324.9	2334.6	2338.8	2332.8
7.5°	2289.1	2281.9	2290.9	2300.0	2314.6	2327.4	2337.6	2352.8	2366.8	2369.2	2373.5
10°	2229.1	2223.5	2244.9	2268.4	2308.5	2343.1	2365.6	2383.1	2398.3	2400.8	2406.8
12.5°	2166.5	2159.9	2183.6	2215.6	2280.6	2343.1	2390.4	2413.5	2426.9	2434.8	2443.8
15°	2156.2	2150.8	2164.1	2192.0	2246.0	2326.8	2407.4	2450.0	2461.4	2470.6	2474.2
17.5°	2206.0	2195.7	2201.1	2210.8	2242.4	2311.6	2420.7	2491.2	2508.8	2518.5	2518.5
20°	2321.3	2306.7	2298.3	2278.8	2273.3	2313.9	2419.6	2541.0	2564.0	2576.1	2579.2
22.5°	2474.8	2465.1	2446.9	2397.8	2344.3	2343.8	2442.7	2604.6	2647.8	2659.3	2652.0
25°	2660.5	2645.9	2622.9	2556.1	2453.5	2402.6	2481.5	2686.0	2758.2	2761.2	2740.0
27.5°	2874.1	2852.3	2820.7	2732.8	2594.4	2494.8	2541.0	2779.5	2885.1	2883.8	2840.2
30°	3099.3	3077.5	3044.0	2937.2	2763.1	2619.3	2623.5	2880.1	3035.5	3028.9	2954.3
32.5°	3263.7	3247.3	3240.6	3158.1	2957.2	2766.1	2718.2	2991.9	3221.3	3215.2	3110.8
35°	3390.0	3368.8	3376.7	3334.7	3169.1	2930.6	2834.0	3124.7	3447.0	3446.4	3316.5
37.5°	3514.9	3496.2	3502.8	3475.0	3365.1	3139.4	2975.5	3287.4	3726.8	3740.1	3565.4
40°	3629.1	3609.0	3635.8	3609.6	3517.4	3361.5	3136.3	3471.3	4050.8	4076.3	3866.3
42.5°	3697.7	3681.9	3726.2	3726.8	3649.7	3549.0	3312.9	3674.0	4425.8	4482.9	4236.5
45°	3721.3	3715.8	3782.6	3796.6	3766.9	3657.6	3471.9	3894.9	4830.0	4932.0	4658.3
47.5°	3695.8	3685.5	3777.7	3829.3	3853.0	3708.6	3603.6	4133.9	5242.8	5392.0	5118.3
50°	3567.2	3547.1	3684.3	3792.9	3877.3	3742.0	3736.4	4410.1	5711.8	5875.1	5580.7
52.5°	3336.0	3320.8	3476.7	3665.5	3823.9	3758.4	3885.8	4711.7	6157.3	6368.4	6054.7
55°	3040.4	3020.4	3192.2	3438.5	3690.9	3752.8	4035.0	5049.2	6682.8	6897.0	6544.4
57.5°	2571.9	2531.9	2749.2	3040.4	3474.3	3746.2	4190.4	5384.7	7216.8	7473.6	7067.0
60°	1888.6	1829.1	2095.5	2440.8	3050.7	3681.3	4382.8	5761.0	7857.8	8088.9	7637.4
62.5°	1099.6	1065.1	1239.2	1561.5	2299.4	3299.0	4490.8	6198.6	8487.6	8730.4	8198.2
65°	853.8	844.2	859.4	884.2	1279.9	2469.9	4157.6	6625.2	9288.8	9458.6	8782.6
67.5°	781.0	773.8	780.4	733.7	649.3	1375.8	3289.2	6733.2	10146.8	10250.0	9294.2
70°	694.2	685.7	707.6	667.6	511.0	625.7	2125.2	6341.2	10829.5	11023.2	9683.2
72.5°	565.6	555.9	606.9	588.7	430.3	401.7	1067.4	5409.6	10757.9	11159.7	9404.6
75°	434.5	429.1	489.7	504.9	350.8	316.2	512.2	4021.1	9467.1	9871.9	8105.3
77.5°	337.4	333.1	364.1	419.3	282.8	245.2	315.0	2550.7	7134.3	7205.3	5585.6
80°	253.1	240.9	269.5	324.7	220.3	179.1	213.6	1487.5	4509.6	4087.9	2431.1
82.5°	158.4	152.3	176.0	216.7	155.4	123.2	139.0	821.7	1807.3	1064.5	469.1
85°	90.4	87.9	95.8	123.8	84.4	71.0	79.5	363.0	330.2	226.9	141.4
87.5°	36.4	35.2	43.7	55.2	31.0	26.1	27.9	87.4	72.8	67.3	46.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P961891
 CATALOG NUMBER: NAV-SB2B-730-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2303.1	2303.1	2303.1	2303.1	2303.1	2303.1	2303.1	2303.1	2303.1	2303.1	2303.1
2.5°	2309.7	2309.7	2301.2	2287.9	2272.7	2263.0	2247.2	2243.0	2226.6	2221.8	2229.6
5°	2337.6	2332.8	2306.7	2269.0	2217.5	2170.1	2118.0	2085.2	2039.0	2022.7	2034.8
7.5°	2372.9	2359.5	2314.6	2232.0	2124.0	2017.8	1907.4	1823.7	1743.5	1715.0	1718.6
10°	2405.1	2386.2	2309.7	2165.3	1978.4	1794.5	1618.5	1495.3	1401.9	1363.7	1372.2
12.5°	2437.1	2402.6	2277.5	2054.2	1771.4	1522.0	1334.6	1238.6	1181.0	1134.9	1150.0
15°	2467.5	2419.0	2227.8	1905.6	1544.5	1291.4	1153.0	1076.6	1030.4	1000.1	1005.6
17.5°	2502.7	2432.9	2153.1	1716.9	1328.4	1131.8	1019.0	972.8	963.7	960.0	962.5
20°	2551.8	2445.6	2054.8	1505.6	1169.4	1004.4	946.1	941.9	941.3	939.4	945.5
22.5°	2604.6	2460.8	1925.0	1313.8	1034.1	924.9	914.5	906.1	900.6	900.0	906.6
25°	2667.2	2465.7	1762.4	1156.7	918.8	887.2	875.1	862.3	858.7	858.7	862.3
27.5°	2727.8	2449.3	1573.0	1020.2	853.8	852.7	836.9	832.6	832.0	833.8	838.7
30°	2788.5	2418.4	1384.9	893.9	816.2	816.2	810.8	813.8	816.2	822.3	826.6
32.5°	2870.5	2385.6	1227.6	800.4	783.5	777.4	782.9	788.9	791.4	799.3	806.0
35°	2990.6	2362.5	1102.7	749.5	749.5	741.6	744.7	743.4	738.0	734.3	742.8
37.5°	3149.6	2361.3	999.5	725.8	721.0	719.8	720.4	712.5	691.3	665.7	666.4
40°	3340.8	2394.1	920.0	709.4	705.8	713.1	709.4	688.2	630.0	585.6	584.5
42.5°	3597.5	2487.6	869.0	689.4	700.3	709.4	694.8	621.5	582.0	552.3	551.0
45°	3899.7	2639.3	843.0	668.2	690.0	700.9	630.6	598.4	566.8	531.1	528.6
47.5°	4242.0	2830.4	836.9	648.1	667.0	673.6	603.2	588.7	552.9	514.0	511.0
50°	4614.7	3056.8	853.2	624.4	633.6	610.5	594.1	580.8	543.8	505.5	501.2
52.5°	5000.0	3306.2	886.0	592.3	600.2	574.7	590.5	578.9	538.3	486.7	483.1
55°	5378.7	3557.5	917.6	554.6	566.2	542.5	580.2	571.6	513.4	455.1	452.1
57.5°	5763.4	3807.5	948.5	521.3	533.4	511.6	563.8	552.3	485.5	426.0	424.8
60°	6163.3	4050.2	963.1	489.1	497.6	483.1	538.9	518.9	454.0	396.3	394.4
62.5°	6537.8	4252.3	939.4	456.9	462.5	456.3	506.1	479.4	422.4	363.0	362.3
65°	6913.4	4372.4	866.6	425.4	426.6	423.6	460.0	437.0	385.4	333.7	330.2
67.5°	7253.9	4439.9	750.7	391.4	388.4	387.1	416.9	390.8	349.5	304.6	301.0
70°	7326.1	4268.7	573.5	351.4	351.4	348.3	369.6	342.9	310.1	273.7	272.4
72.5°	6691.3	3590.9	407.2	305.9	310.7	304.6	322.3	299.8	270.1	245.8	238.5
75°	5395.7	2633.2	296.1	259.1	267.6	257.3	273.7	257.9	232.5	231.9	208.8
77.5°	3707.3	1628.2	214.8	213.6	219.7	206.3	225.2	216.7	193.6	183.3	171.8
80°	1582.1	649.3	156.6	165.0	165.0	152.9	174.8	177.2	157.1	152.3	152.3
82.5°	315.0	184.5	109.9	113.5	106.8	103.2	123.8	137.1	189.3	210.5	211.2
85°	94.7	68.0	66.1	61.9	54.6	55.2	72.8	137.8	169.9	97.1	83.7
87.5°	26.1	17.0	17.6	13.9	11.5	15.2	24.9	104.3	57.1	24.3	20.6
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)