

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: P884997

Luminaire Tested: **NAV-SB6A-827-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-827-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21919 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

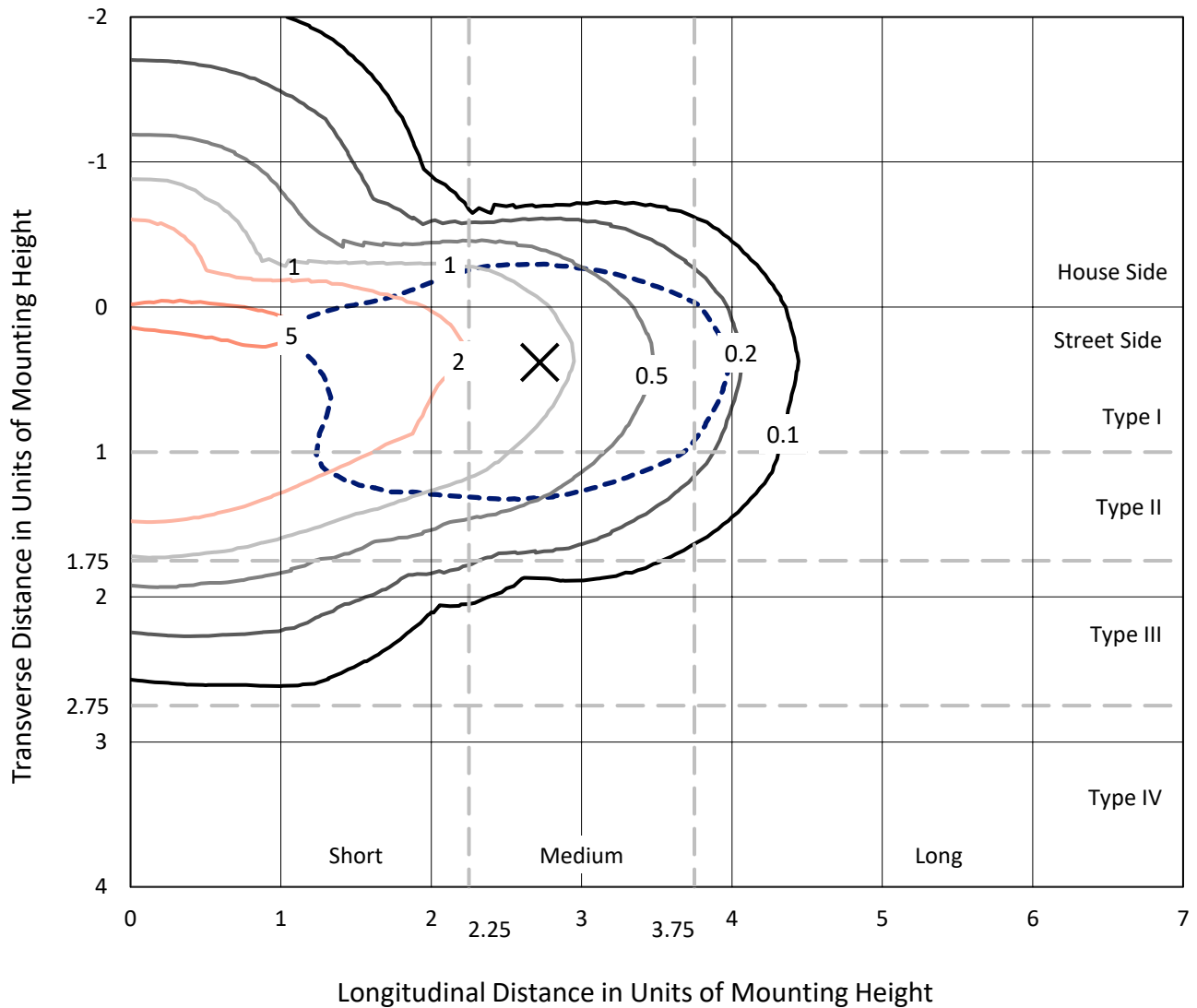
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

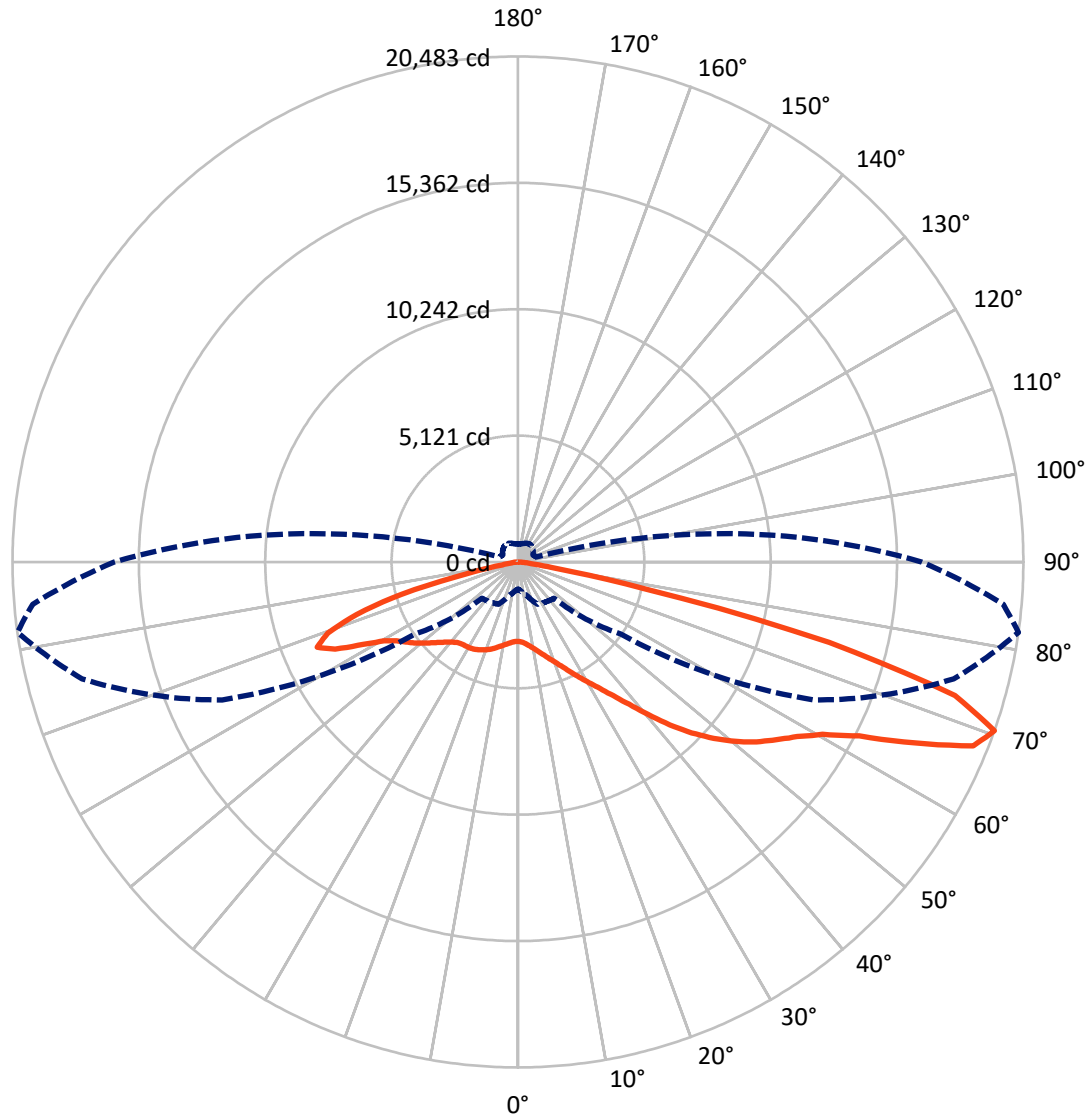
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5403.6	0.0	5403.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	16515.4	0.0	16515.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	21919.0	0.0	21919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.4	1.4
10°-20°	871.7	4.0
20°-30°	1458.3	6.7
30°-40°	2278.3	10.4
40°-50°	3628.5	16.6
50°-60°	5049.5	23.0
60°-70°	5282.0	24.1
70°-80°	2760.6	12.6
80°-90°	286.7	1.3
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°	21919.0	100.0
0°-180°	21919.0	100.0

Coefficient of Utilization



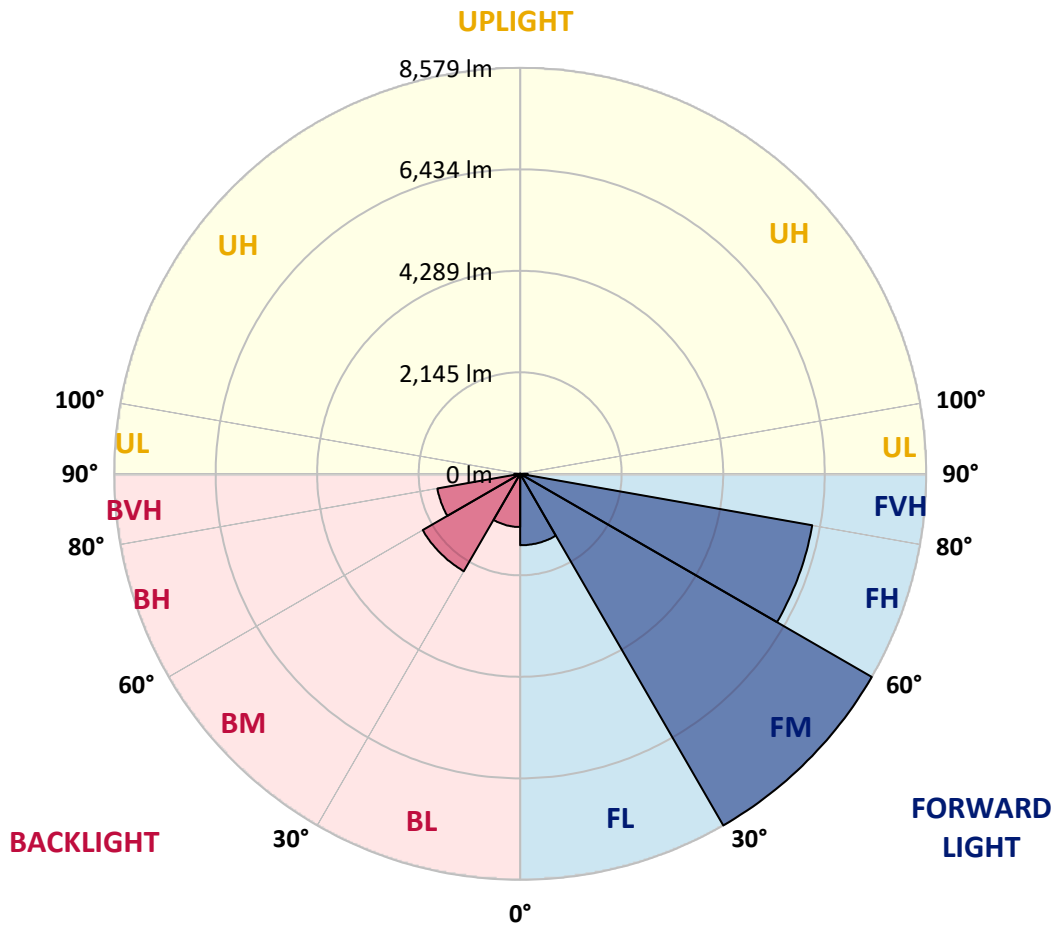
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.4	6.9			
FM (30°-60°)	8578.9	39.1			
FH (60°-80°)	6266.7	28.6			G3/7500
FVH (80°-90°)	160.5	0.7			G2/225
BL (0°-30°)	1124.1	5.1	B3/2500		
BM (30°-60°)	2377.4	10.8	B2/2500		
BH (60°-80°)	1775.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	126.2	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3213.6	3213.6	3213.6	3213.6	3213.6	3213.6	3213.6	3213.6	3213.6	3213.6	3213.6
2.5°	3290.4	3309.0	3303.2	3297.3	3297.3	3289.2	3288.0	3276.4	3267.1	3252.0	3248.5
5°	3332.2	3352.0	3349.7	3354.3	3369.5	3372.9	3376.4	3369.5	3350.8	3332.2	3324.1
7.5°	3295.0	3317.1	3324.1	3352.0	3398.5	3440.4	3471.8	3484.6	3467.2	3440.4	3427.6
10°	3169.4	3193.8	3218.3	3284.5	3367.1	3466.0	3549.7	3599.7	3596.3	3570.7	3548.6
12.5°	2914.7	2940.3	2992.6	3121.7	3272.9	3447.4	3603.2	3707.9	3744.0	3725.4	3687.0
15°	2711.1	2733.2	2772.8	2905.4	3101.9	3367.1	3623.0	3826.5	3918.4	3908.0	3861.4
17.5°	2705.3	2714.6	2739.1	2801.9	2953.1	3241.5	3602.1	3942.9	4118.5	4117.3	4059.2
20°	2807.7	2811.2	2825.1	2837.9	2924.0	3146.1	3548.6	4039.4	4343.0	4343.0	4280.1
22.5°	2949.6	2947.3	2961.2	2949.6	2991.5	3138.0	3514.8	4124.3	4593.0	4611.6	4532.5
25°	3162.4	3150.8	3147.3	3120.6	3128.7	3213.6	3552.1	4220.8	4889.6	4928.0	4829.1
27.5°	3446.2	3427.6	3414.8	3353.2	3332.2	3369.5	3666.0	4337.1	5219.9	5286.2	5160.6
30°	3816.1	3782.3	3763.7	3656.7	3581.1	3586.9	3838.2	4491.8	5565.4	5672.4	5513.0
32.5°	4320.9	4268.5	4218.5	4042.9	3904.5	3859.1	4060.3	4705.8	5939.9	6110.8	5906.1
35°	4886.1	4844.2	4790.7	4519.7	4306.9	4202.2	4360.4	5004.7	6378.3	6649.3	6383.0
37.5°	5430.4	5394.4	5420.0	5054.8	4780.3	4627.9	4753.5	5406.0	6919.2	7319.3	6980.8
40°	5993.4	5965.5	5968.9	5620.0	5300.2	5129.2	5230.4	5909.6	7539.1	8116.0	7699.6
42.5°	6605.2	6584.2	6514.4	6205.1	5845.7	5686.3	5779.4	6491.2	8204.4	9023.2	8488.2
45°	7290.2	7277.4	7212.3	6857.5	6445.8	6266.7	6392.3	7133.2	8873.2	9876.9	9280.2
47.5°	7882.2	7892.7	7884.5	7585.6	7158.8	6895.9	7046.0	7803.1	9495.4	10679.4	10039.7
50°	8167.2	8221.8	8302.1	8209.0	7943.9	7676.4	7705.4	8449.8	10088.6	11431.9	10767.8
52.5°	8018.3	8121.8	8340.5	8489.3	8591.7	8535.9	8457.9	9091.8	10646.9	12111.2	11456.4
55°	7463.5	7608.9	7971.8	8331.2	8853.4	9259.3	9361.7	9803.6	11191.2	12709.0	12107.7
57.5°	6452.8	6688.9	7014.6	7741.5	8620.8	9609.4	10415.4	10791.1	11768.1	13347.5	12789.3
60°	4719.8	5036.2	5440.9	6522.6	7806.6	9422.1	11312.1	12307.7	12588.1	14174.5	13676.7
62.5°	3020.5	3215.9	3588.1	4607.0	6082.9	8462.6	11586.6	14203.6	13977.9	15530.7	15007.3
65°	2068.0	2193.6	2534.4	3106.6	3932.4	6299.3	10851.6	15624.9	16185.5	17680.0	17282.3
67.5°	1502.7	1598.1	1888.8	2390.1	2562.3	3727.7	8420.7	15559.7	18331.4	19894.5	19275.8
70°	1095.6	1163.1	1407.3	1888.8	1971.4	2073.8	5101.3	13226.6	18284.8	20483.1	19742.2
72.5°	811.8	858.4	1022.4	1465.5	1595.8	1400.4	2525.1	9612.9	15712.1	18526.8	17932.4
75°	587.4	622.2	743.2	1121.2	1277.1	1066.5	1259.6	5617.7	10959.7	13032.3	13137.0
77.5°	449.0	475.7	554.8	821.1	1022.4	800.2	781.6	2584.4	5196.7	5222.2	5515.3
80°	360.6	378.0	421.0	578.1	783.9	599.0	509.4	1043.3	1642.3	1389.9	1458.5
82.5°	265.2	294.3	355.9	405.9	560.6	412.9	310.5	526.9	624.6	537.3	542.0
85°	151.2	171.0	215.2	290.8	358.2	252.4	178.0	233.8	290.8	238.4	212.8
87.5°	53.5	69.8	75.6	114.0	155.9	104.7	68.6	67.5	95.4	70.9	59.3
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°	3213.6	3213.6	3213.6	3213.6	3213.6	3213.6	3213.6	3213.6	3213.6	3213.6	3213.6
2.5°	3236.9	3231.0	3207.8	3176.4	3143.8	3112.4	3101.9	3079.8	3064.7	3056.6	3065.9
5°	3302.0	3283.4	3228.7	3158.9	3085.7	3006.6	2950.7	2899.6	2862.3	2827.5	2841.4
7.5°	3395.0	3362.5	3268.3	3146.1	3015.9	2884.4	2786.7	2712.3	2662.3	2629.7	2636.7
10°	3503.2	3453.2	3309.0	3126.4	2925.2	2736.7	2621.6	2557.6	2526.2	2508.8	2513.4
12.5°	3627.7	3556.7	3350.8	3081.0	2786.7	2571.6	2492.5	2473.9	2475.0	2476.2	2478.5
15°	3781.2	3682.3	3384.6	2982.1	2606.5	2444.8	2430.8	2461.1	2492.5	2507.6	2506.4
17.5°	3954.5	3814.9	3390.4	2819.3	2429.7	2363.4	2407.6	2472.7	2520.4	2541.3	2546.0
20°	4140.6	3949.8	3348.5	2589.0	2284.3	2297.1	2376.2	2459.9	2512.3	2539.0	2546.0
22.5°	4353.4	4094.1	3248.5	2347.1	2165.7	2225.0	2318.0	2399.4	2454.1	2480.9	2487.8
25°	4596.5	4255.7	3091.5	2143.6	2063.3	2143.6	2236.6	2304.1	2348.3	2372.7	2379.7
27.5°	4866.3	4424.4	2882.1	1981.9	1973.8	2059.8	2136.6	2188.9	2212.2	2230.8	2237.8
30°	5137.3	4577.9	2628.6	1859.8	1895.8	1977.2	2031.9	2055.2	2062.1	2065.6	2073.8
32.5°	5430.4	4710.5	2362.2	1758.6	1821.4	1897.0	1929.6	1940.0	1907.5	1885.4	1892.3
35°	5785.2	4852.4	2101.7	1678.3	1748.1	1813.2	1823.7	1814.4	1776.0	1730.7	1733.0
37.5°	6223.7	5029.2	1893.5	1621.3	1679.5	1722.5	1709.7	1707.4	1710.9	1657.4	1660.9
40°	6761.0	5259.5	1741.1	1577.1	1623.7	1633.0	1596.9	1616.7	1634.1	1552.7	1555.0
42.5°	7357.7	5537.4	1644.6	1546.9	1577.1	1555.0	1499.2	1521.3	1519.0	1412.0	1410.8
45°	7966.0	5839.8	1610.9	1524.8	1534.1	1489.9	1428.3	1434.1	1385.2	1288.7	1292.2
47.5°	8570.8	6164.3	1631.8	1506.2	1480.6	1430.6	1382.9	1357.3	1285.2	1213.1	1213.1
50°	9163.9	6505.1	1708.6	1469.0	1407.3	1378.3	1343.4	1298.0	1221.2	1159.6	1154.9
52.5°	9714.1	6848.2	1794.6	1407.3	1315.4	1332.9	1310.8	1258.5	1182.9	1120.0	1121.2
55°	10235.1	7191.3	1828.4	1322.4	1229.4	1293.3	1280.6	1184.0	1093.3	1042.1	1037.5
57.5°	10802.7	7604.2	1791.1	1214.3	1159.6	1248.0	1199.1	1092.1	1039.8	1001.4	997.9
60°	11589.0	8252.1	1710.9	1080.5	1093.3	1180.5	1096.8	1052.6	995.6	952.6	950.2
62.5°	12895.1	9460.5	1581.8	947.9	1015.4	1080.5	1047.9	1003.7	945.6	903.7	903.7
65°	14825.8	11140.0	1338.7	844.4	928.1	982.8	995.6	951.4	890.9	846.7	849.1
67.5°	16454.1	12193.8	1013.0	758.3	838.6	903.7	939.8	896.7	832.8	789.7	790.9
70°	16364.6	11428.5	773.5	673.4	759.5	825.8	872.3	838.6	770.0	729.3	732.7
72.5°	14535.1	9560.5	625.7	587.4	679.2	744.4	800.2	774.6	704.8	665.3	665.3
75°	10678.3	6786.6	500.1	500.1	579.2	659.5	721.1	704.8	640.9	612.9	604.8
77.5°	4501.1	2847.2	392.0	415.2	481.5	566.4	643.2	649.0	593.2	628.1	569.9
80°	1196.8	785.1	298.9	326.8	378.0	467.6	559.4	557.1	496.6	464.1	431.5
82.5°	455.9	309.4	212.8	230.3	273.3	358.2	443.1	457.1	396.6	343.1	343.1
85°	175.6	132.6	131.4	138.4	159.3	237.3	335.0	346.6	298.9	253.6	261.7
87.5°	45.4	39.5	48.8	46.5	73.3	126.8	191.9	198.9	182.6	105.8	151.2
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)