

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: P884951

Luminaire Tested: **NAV-SB6A-730-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-730-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26490 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

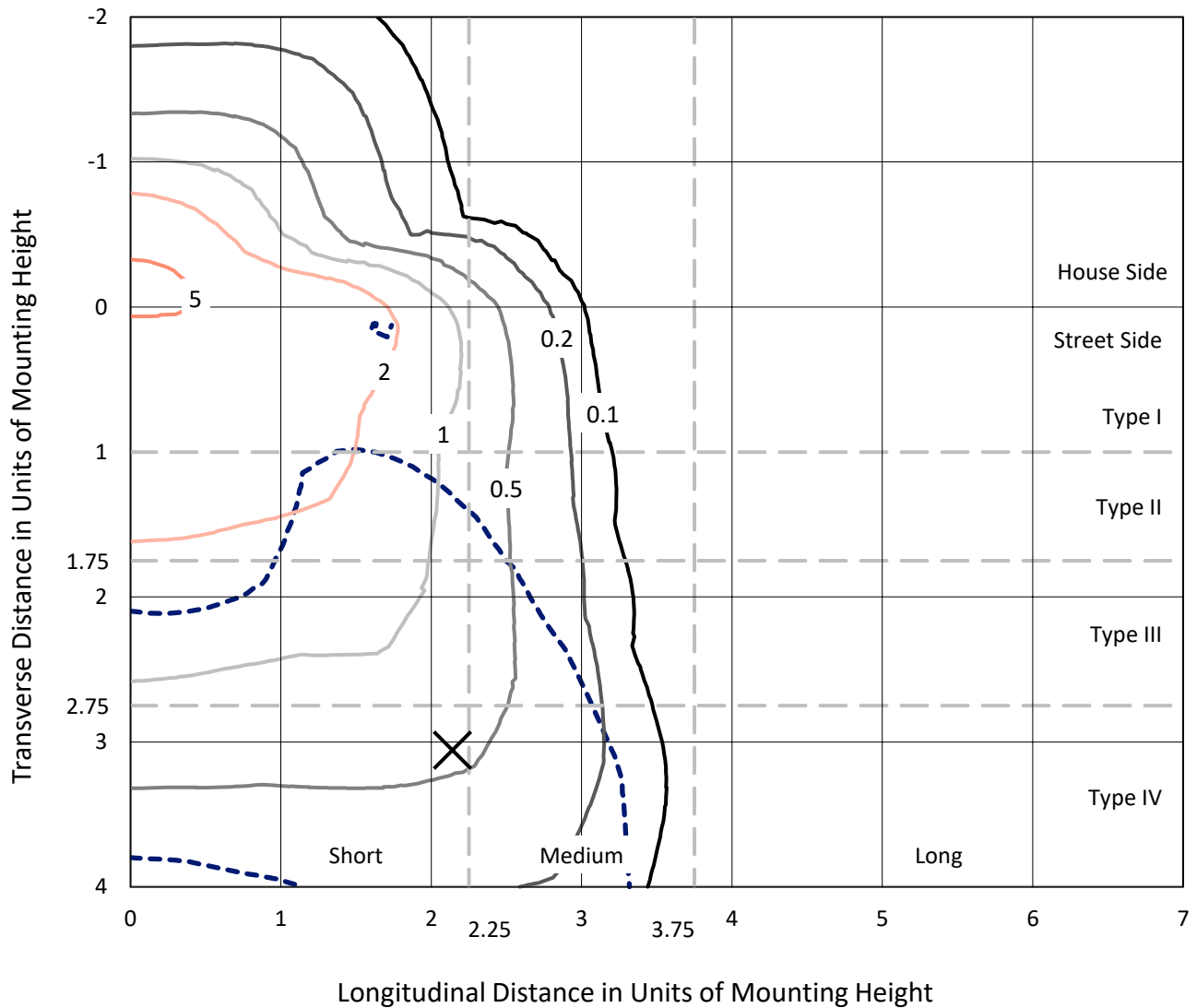
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

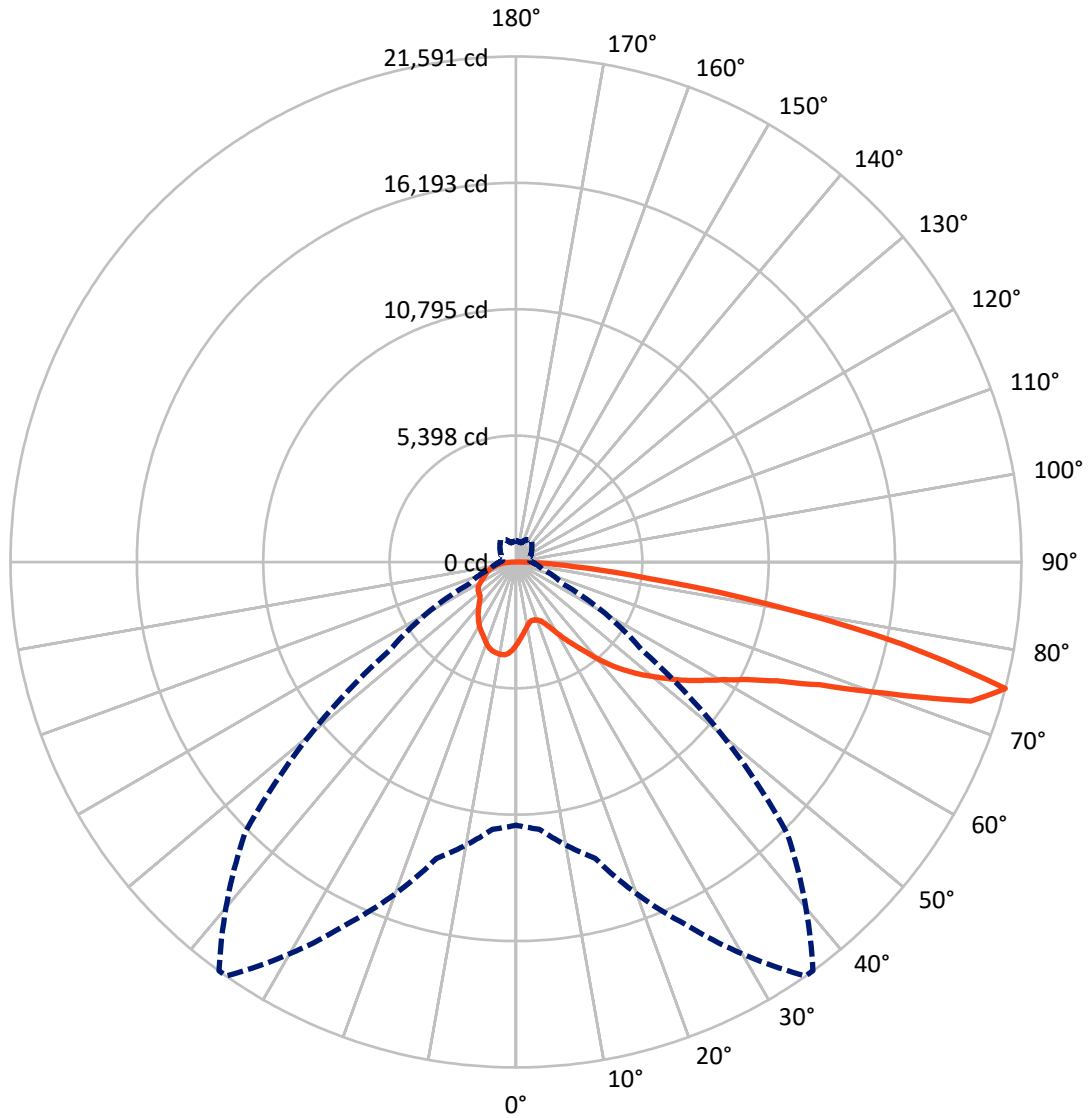
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6304.0	0.0	6304.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	20186.1	0.0	20186.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	26490.0	0.0	26490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.2	1.3
10°-20°	964.0	3.6
20°-30°	1618.9	6.1
30°-40°	2515.9	9.5
40°-50°	3734.3	14.1
50°-60°	5155.4	19.5
60°-70°	6254.7	23.6
70°-80°	5169.0	19.5
80°-90°	743.5	2.8
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°	26490.0	100.0
0°-180°	26490.0	100.0

Coefficient of Utilization



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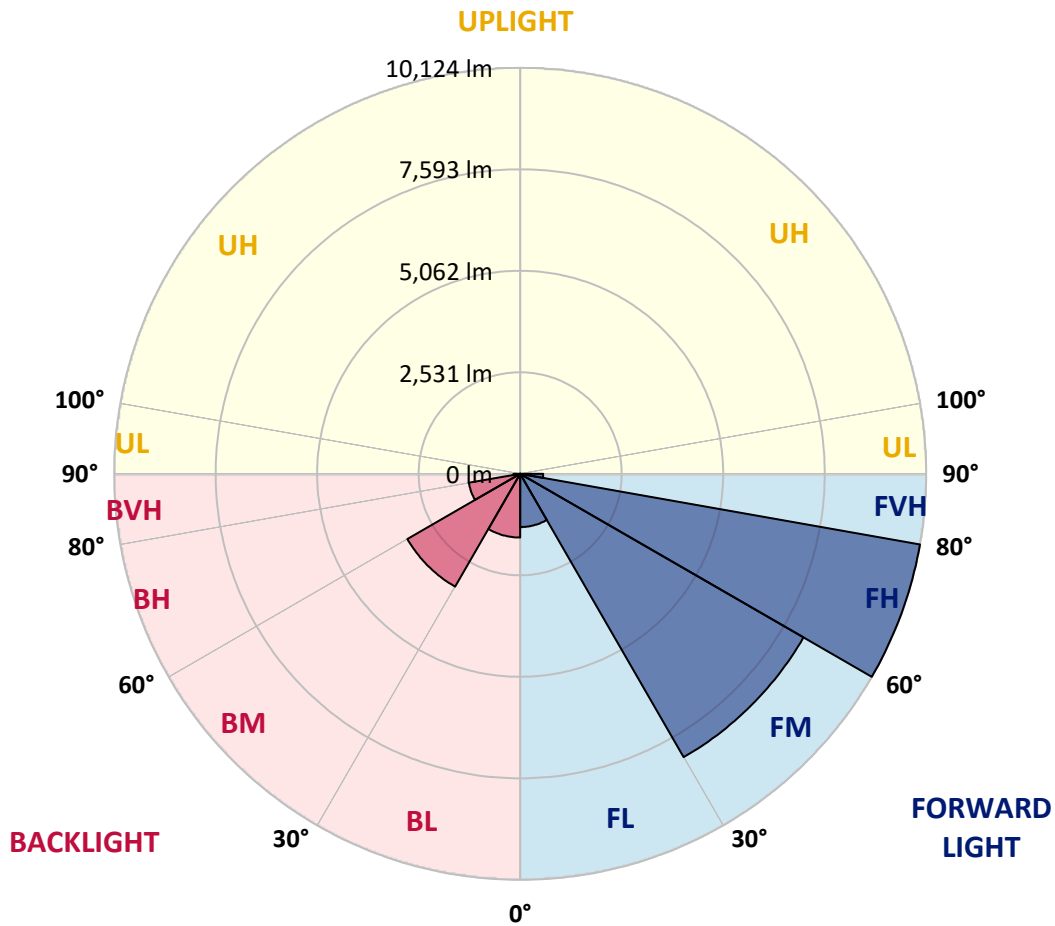
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1328.4	5.0			
FM	(30°-60°)	8157.5	30.8			
FH	(60°-80°)	10124.1	38.2			G4/12000
FVH	(80°-90°)	576.1	2.2			G4/750
BL	(0°-30°)	1588.7	6.0	B3/2500		
BM	(30°-60°)	3248.2	12.3	B3/5000		
BH	(60°-80°)	1299.7	4.9	B3/2500		G3/2500
BVH	(80°-90°)	167.4	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0
2.5°	3255.0	3275.1	3283.7	3279.4	3300.8	3298.0	3328.1	3365.3	3416.8	3467.0	3540.0
5°	3004.4	3025.9	3044.5	3061.7	3103.2	3116.1	3163.4	3235.0	3329.5	3425.4	3545.7
7.5°	2771.0	2789.6	2818.2	2849.8	2919.9	2932.8	3011.6	3123.3	3255.0	3395.4	3561.5
10°	2580.5	2599.1	2629.2	2665.0	2752.4	2768.1	2868.4	3017.3	3189.1	3366.7	3578.7
12.5°	2498.9	2504.6	2521.8	2557.6	2633.5	2643.5	2753.8	2924.2	3124.7	3345.2	3604.4
15°	2494.6	2506.1	2507.5	2526.1	2589.1	2593.4	2695.1	2864.1	3084.6	3340.9	3643.1
17.5°	2537.6	2546.2	2533.3	2544.7	2597.7	2604.9	2685.1	2835.4	3071.7	3359.6	3709.0
20°	2652.1	2659.3	2620.6	2604.9	2643.5	2649.3	2728.0	2854.1	3084.6	3398.2	3799.2
22.5°	2895.6	2899.9	2805.4	2740.9	2743.8	2746.6	2815.4	2929.9	3134.7	3468.4	3913.8
25°	3275.1	3272.2	3121.8	2997.3	2925.7	2909.9	2955.7	3053.1	3219.2	3561.5	4061.3
27.5°	3719.0	3697.5	3547.2	3361.0	3204.9	3182.0	3172.0	3213.5	3339.5	3684.6	4241.7
30°	4220.2	4200.2	4038.3	3794.9	3578.7	3541.4	3446.9	3425.4	3518.5	3852.2	4492.3
32.5°	4770.1	4757.2	4563.9	4268.9	3979.6	3936.7	3777.7	3720.4	3793.5	4105.7	4841.7
35°	5231.2	5219.8	5059.4	4755.8	4402.1	4349.1	4187.3	4122.8	4160.1	4430.7	5298.5
37.5°	5648.0	5642.2	5504.8	5265.6	4900.4	4836.0	4654.1	4632.6	4625.5	4858.9	5852.7
40°	6034.6	6020.3	5877.1	5751.1	5480.4	5421.7	5261.3	5242.7	5188.3	5385.9	6480.0
42.5°	6462.8	6425.6	6217.9	6159.2	6086.2	6037.5	5941.5	5944.4	5824.1	5980.2	7144.4
45°	6812.2	6790.7	6577.3	6543.0	6621.7	6601.7	6684.7	6706.2	6472.8	6603.1	7834.7
47.5°	7187.4	7167.3	6986.9	6962.6	7175.9	7181.7	7475.2	7482.4	7105.8	7250.4	8526.3
50°	7649.9	7621.3	7442.3	7472.4	7711.5	7733.0	8270.0	8221.3	7688.6	7907.7	9212.3
52.5°	7955.0	7972.2	7933.5	7982.2	8308.7	8328.7	9051.9	8927.3	8265.7	8556.4	9885.4
55°	8179.8	8214.2	8334.5	8446.2	8938.8	8958.8	9789.4	9598.9	8744.0	9157.9	10518.3
57.5°	8469.1	8420.4	8645.2	8862.9	9537.4	9590.4	10506.9	10246.2	9167.9	9676.3	10952.2
60°	8884.4	8850.0	9024.7	9346.9	10207.6	10292.1	11265.8	10829.1	9478.7	10087.3	11036.7
62.5°	9726.4	9640.5	9667.7	9952.7	11052.5	11164.2	12122.2	11337.4	9633.3	10247.7	10584.2
65°	10985.2	10837.7	10700.2	10897.8	12242.5	12352.8	13088.8	11737.0	9576.0	9936.9	9382.7
67.5°	12570.4	12424.4	12255.4	12441.5	13995.3	14082.7	14281.7	11961.8	9124.9	8739.7	7259.0
70°	13877.9	13823.5	14025.4	14791.5	16794.9	16797.8	15811.1	11775.6	7889.1	6196.4	4200.2
72.5°	13704.6	13671.7	14735.7	17104.3	20323.5	20247.6	17258.9	10366.5	5314.3	2795.3	1573.8
75°	11242.9	11456.3	13104.6	17062.7	21590.8	21580.8	16372.5	6590.2	2198.2	1158.5	813.4
77.5°	6028.9	6366.8	8507.7	12597.6	16855.1	17108.5	11510.7	2305.6	943.7	741.8	562.8
80°	1966.2	2261.2	3391.1	6414.1	10952.2	10905.0	4933.4	905.0	645.8	525.6	389.5
82.5°	834.9	869.2	1515.1	3028.8	5620.7	5533.4	1570.9	519.8	454.0	359.4	240.6
85°	326.5	365.2	668.8	1400.5	2434.5	2381.5	567.1	257.8	290.7	234.9	143.2
87.5°	107.4	130.3	239.2	479.7	757.5	730.3	138.9	88.8	126.0	107.4	51.6
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°	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0	3530.0
2.5°	3560.0	3583.0	3610.2	3650.3	3684.6	3713.3	3743.3	3762.0	3769.1	3790.6	3789.2
5°	3585.8	3635.9	3703.2	3769.1	3833.6	3872.2	3906.6	3923.8	3939.5	3951.0	3953.9
7.5°	3628.8	3693.2	3799.2	3885.1	3939.5	3971.0	3994.0	3988.2	3994.0	3996.8	4001.1
10°	3666.0	3756.2	3882.3	3963.9	4005.4	4006.8	4001.1	3981.1	3971.0	3972.5	3975.3
12.5°	3710.4	3810.7	3946.7	4015.4	4026.9	3995.4	3971.0	3936.7	3923.8	3918.1	3915.2
15°	3770.6	3885.1	4016.9	4042.6	4014.0	3973.9	3932.4	3876.5	3847.9	3825.0	3832.1
17.5°	3843.6	3969.6	4071.3	4052.7	3991.1	3925.2	3857.9	3773.4	3714.7	3690.4	3691.8
20°	3945.3	4058.4	4112.8	4031.2	3938.1	3837.9	3723.3	3620.2	3565.8	3541.4	3538.6
22.5°	4068.4	4177.3	4152.9	3994.0	3862.2	3701.8	3558.6	3482.7	3455.5	3438.3	3441.2
25°	4215.9	4309.0	4181.5	3939.5	3737.6	3521.4	3411.1	3386.8	3373.9	3361.0	3361.0
27.5°	4407.8	4457.9	4203.0	3859.3	3542.9	3329.5	3289.4	3293.7	3289.4	3267.9	3272.2
30°	4661.3	4651.3	4223.1	3729.0	3319.5	3156.2	3159.1	3177.7	3180.6	3166.2	3173.4
32.5°	4994.9	4893.3	4233.1	3560.0	3106.1	3004.4	3007.3	3027.3	3041.6	3017.3	3028.8
35°	5398.8	5175.4	4217.3	3348.1	2941.4	2859.8	2838.3	2844.0	2848.3	2825.4	2841.2
37.5°	5869.9	5491.9	4147.2	3113.2	2805.4	2718.0	2672.2	2633.5	2610.6	2589.1	2603.4
40°	6386.9	5837.0	4018.3	2884.1	2653.6	2567.6	2498.9	2425.9	2348.5	2319.9	2332.8
42.5°	6928.2	6192.1	3862.2	2665.0	2478.9	2408.7	2335.7	2229.7	2113.7	2055.0	2062.1
45°	7489.6	6555.9	3709.0	2448.8	2299.9	2269.8	2185.3	2057.8	1931.8	1857.4	1851.6
47.5°	8039.5	6899.6	3484.1	2231.1	2132.3	2165.2	2099.4	1981.9	1841.6	1724.2	1711.3
50°	8565.0	7221.8	3116.1	2010.6	1996.3	2133.7	2070.7	1901.7	1741.4	1591.0	1578.1
52.5°	9086.3	7482.4	2645.0	1810.1	1923.2	2125.1	2033.5	1847.3	1651.1	1493.6	1476.4
55°	9528.8	7617.0	2191.0	1638.3	1817.3	2052.1	1989.1	1782.9	1523.7	1356.1	1341.8
57.5°	9780.8	7508.2	1813.0	1469.3	1671.2	1931.8	1913.2	1645.4	1371.9	1243.0	1225.8
60°	9672.0	7067.1	1503.6	1321.8	1532.3	1801.5	1781.5	1509.4	1255.9	1134.2	1117.0
62.5°	9072.0	6226.5	1258.8	1192.9	1406.3	1668.3	1649.7	1404.8	1167.1	1049.7	1031.1
65°	7863.3	5065.1	1068.3	1085.5	1278.8	1507.9	1535.1	1317.5	1096.9	982.4	963.8
67.5°	5997.4	3668.9	919.4	992.4	1154.2	1350.4	1429.2	1254.5	1038.2	929.4	912.2
70°	3418.3	2083.6	793.3	902.2	1044.0	1204.3	1347.5	1204.3	975.2	885.0	873.5
72.5°	1296.0	956.6	685.9	812.0	938.0	1081.2	1257.3	1125.6	902.2	834.9	823.4
75°	691.7	582.8	577.1	706.0	816.3	960.9	1144.2	1048.3	847.8	882.1	910.8
77.5°	471.1	412.4	482.6	604.3	683.1	827.7	1023.9	930.8	734.6	731.8	674.5
80°	326.5	292.1	392.4	486.9	528.4	696.0	893.6	799.1	598.6	558.5	534.1
82.5°	196.2	190.5	293.6	363.7	373.8	537.0	740.4	670.2	489.8	426.7	429.6
85°	107.4	113.1	187.6	213.4	217.7	375.2	580.0	518.4	376.6	316.5	319.3
87.5°	30.1	38.7	68.7	84.5	104.5	194.8	345.1	307.9	189.0	131.7	131.7
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)