

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: P883991

Luminaire Tested: **NAV-SB4C-830-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883991
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-SB4C-830-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 26248 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

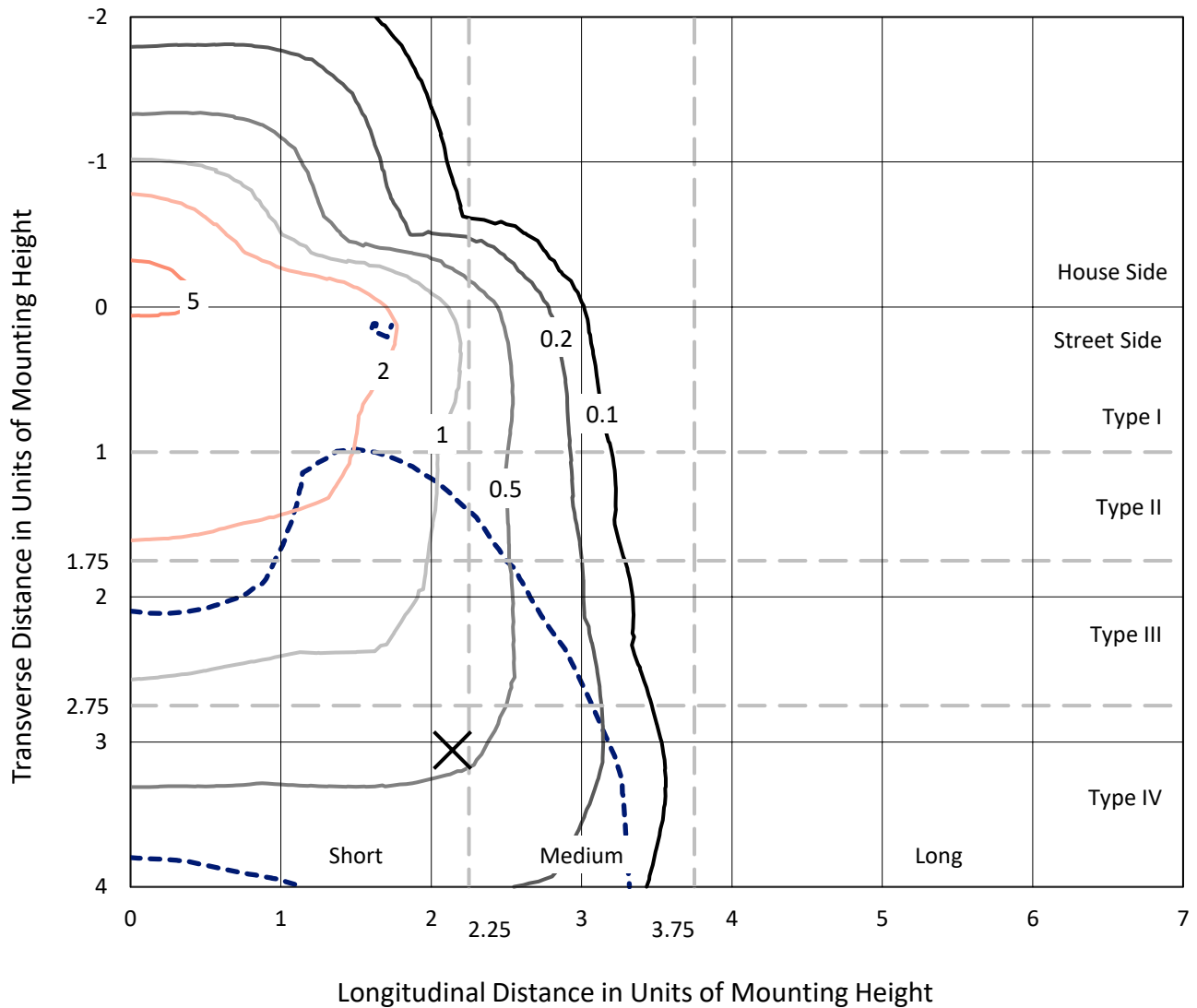
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

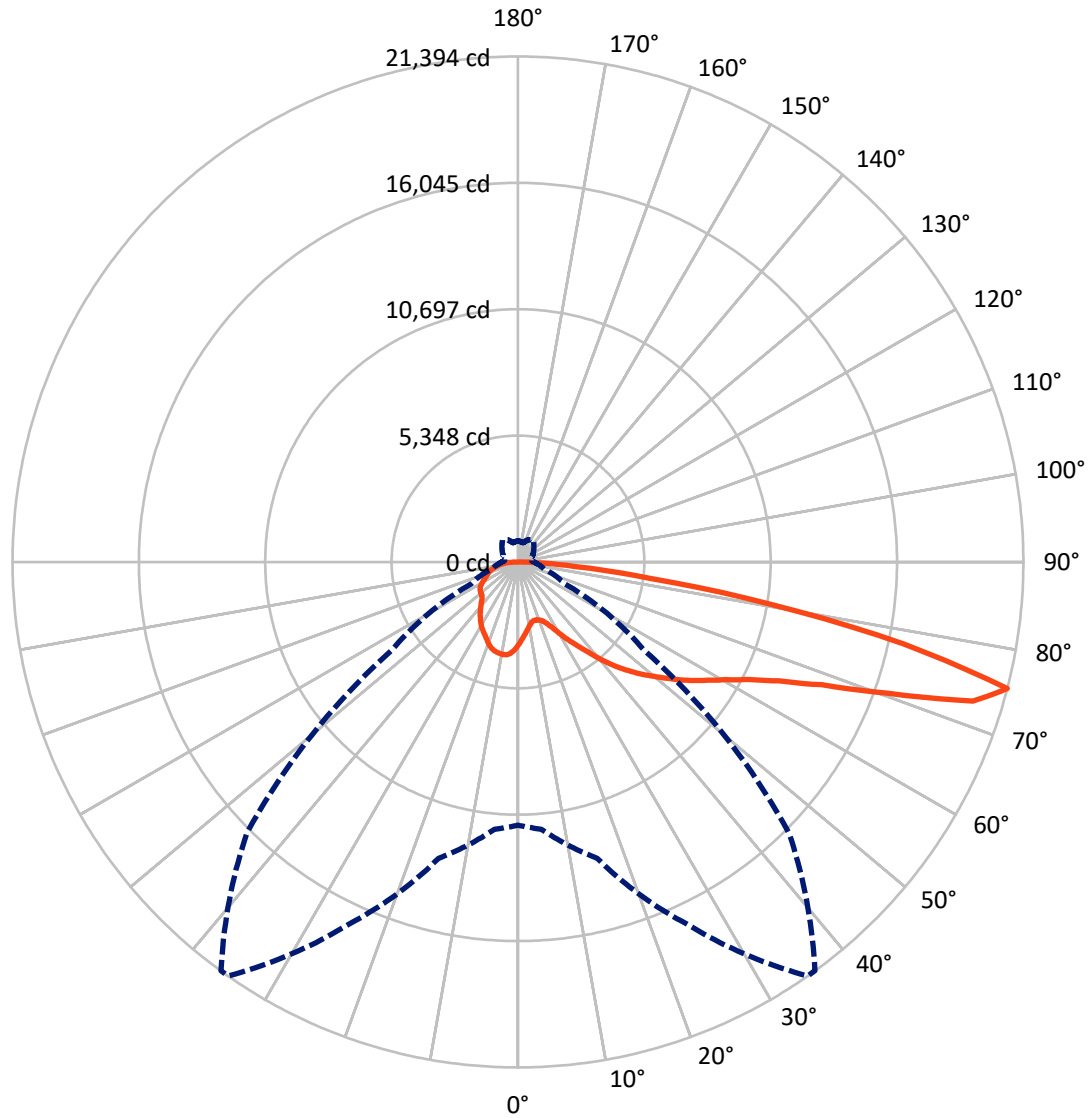
✕ Max cd
 - - - 1/2 Max cd



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	6246.4	0.0	6246.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	20001.6	0.0	20001.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	26248.0	0.0	26248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	1.3
10°-20°	955.2	3.6
20°-30°	1604.1	6.1
30°-40°	2492.9	9.5
40°-50°	3700.2	14.1
50°-60°	5108.3	19.5
60°-70°	6197.6	23.6
70°-80°	5121.8	19.5
80°-90°	736.7	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°	26248.0	100.0
0°-180°	26248.0	100.0

Coefficient of Utilization



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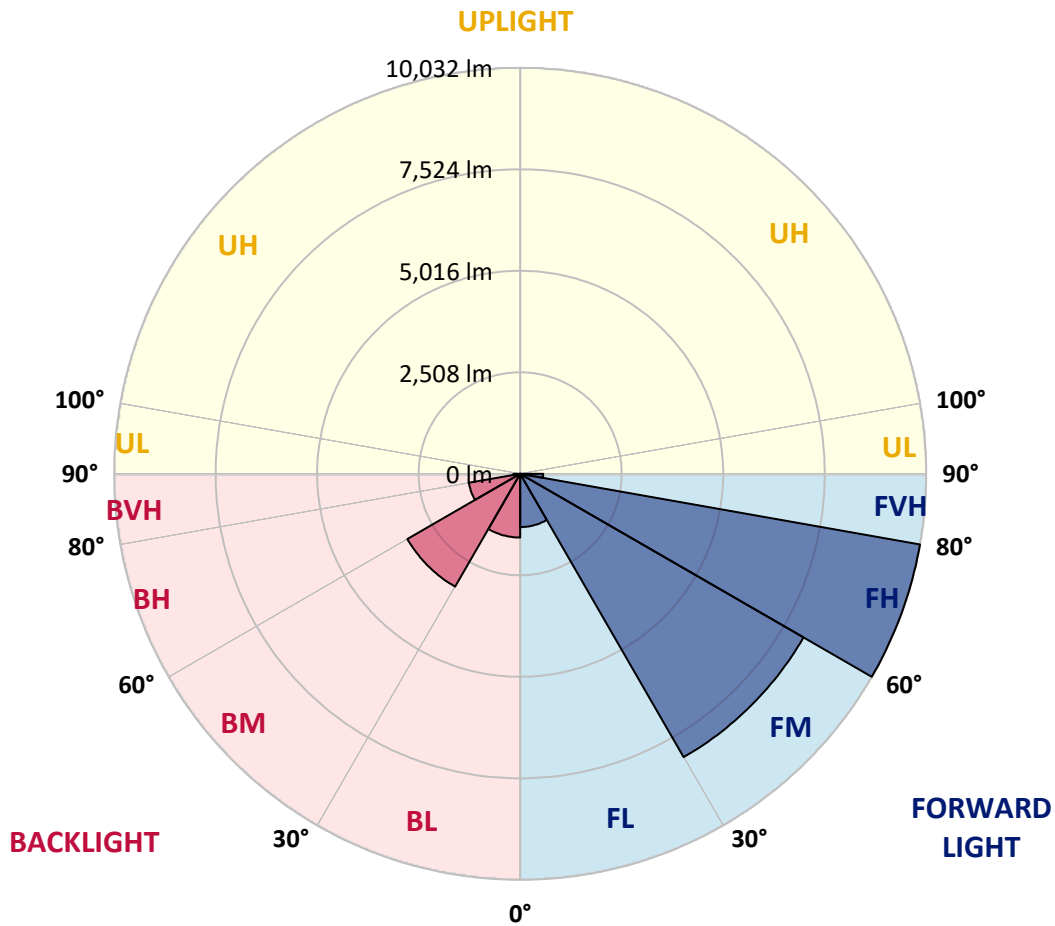
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.3	5.0			
FM (30°-60°)	8083.0	30.8			
FH (60°-80°)	10031.6	38.2			G4/12000
FVH (80°-90°)	570.8	2.2			G4/750
BL (0°-30°)	1574.2	6.0	B3/2500		
BM (30°-60°)	3218.5	12.3	B3/5000		
BH (60°-80°)	1287.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	165.9	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°	3497.7	3497.7	3497.7	3497.7	3497.7	3497.7	3497.7	3497.7	3497.7	3497.7	3497.7
2.5°	3225.3	3245.1	3253.7	3249.4	3270.7	3267.9	3297.7	3334.5	3385.6	3435.3	3507.7
5°	2977.0	2998.3	3016.7	3033.7	3074.9	3087.6	3134.5	3205.4	3299.1	3394.1	3513.3
7.5°	2745.7	2764.1	2792.5	2823.7	2893.2	2906.0	2984.1	3094.7	3225.3	3364.3	3528.9
10°	2557.0	2575.4	2605.2	2640.7	2727.2	2742.8	2842.2	2989.7	3160.0	3336.0	3546.0
12.5°	2476.1	2481.8	2498.8	2534.3	2609.5	2619.4	2728.7	2897.5	3096.2	3314.7	3571.5
15°	2471.8	2483.2	2484.6	2503.0	2565.5	2569.7	2670.5	2837.9	3056.4	3310.4	3609.8
17.5°	2514.4	2522.9	2510.1	2521.5	2574.0	2581.1	2660.5	2809.5	3043.7	3328.9	3675.1
20°	2627.9	2635.0	2596.7	2581.1	2619.4	2625.1	2703.1	2828.0	3056.4	3367.2	3764.5
22.5°	2869.1	2873.4	2779.7	2715.9	2718.7	2721.6	2789.7	2903.2	3106.1	3436.7	3878.0
25°	3245.1	3242.3	3093.3	2969.9	2898.9	2883.3	2928.7	3025.2	3189.8	3528.9	4024.2
27.5°	3685.0	3663.7	3514.8	3330.3	3175.6	3152.9	3143.0	3184.1	3309.0	3651.0	4202.9
30°	4181.7	4161.8	4001.5	3760.2	3546.0	3509.1	3415.4	3394.1	3486.4	3817.0	4451.3
32.5°	4726.5	4713.8	4522.2	4229.9	3943.3	3900.7	3743.2	3686.4	3758.8	4068.1	4797.5
35°	5183.4	5172.1	5013.2	4712.3	4361.9	4309.4	4149.0	4085.2	4122.1	4390.2	5250.1
37.5°	5596.4	5590.7	5454.5	5217.5	4855.7	4791.8	4611.6	4590.3	4583.2	4814.5	5799.3
40°	5979.5	5965.3	5823.4	5698.5	5430.3	5372.2	5213.2	5194.8	5140.9	5336.7	6420.8
42.5°	6403.7	6366.9	6161.1	6102.9	6030.6	5982.3	5887.2	5890.1	5770.9	5925.6	7079.2
45°	6750.0	6728.7	6517.3	6483.2	6561.2	6541.4	6623.7	6645.0	6413.7	6542.8	7763.1
47.5°	7121.7	7101.9	6923.1	6899.0	7110.4	7116.1	7406.9	7414.0	7040.9	7184.2	8448.5
50°	7580.1	7551.7	7374.3	7404.1	7641.1	7662.4	8194.5	8146.2	7618.4	7835.5	9128.1
52.5°	7882.3	7899.3	7861.0	7909.3	8232.8	8252.6	8969.2	8845.8	8190.2	8478.3	9795.0
55°	8105.1	8139.1	8258.3	8369.0	8857.1	8877.0	9700.0	9511.3	8664.1	9074.2	10422.2
57.5°	8391.7	8343.5	8566.2	8781.9	9450.2	9502.7	10410.9	10152.6	9084.1	9587.9	10852.2
60°	8803.2	8769.1	8942.3	9261.5	10114.3	10198.0	11162.9	10730.1	9392.1	9995.1	10935.9
62.5°	9637.5	9552.4	9579.4	9861.7	10951.5	11062.2	12011.5	11233.9	9545.3	10154.0	10487.5
65°	10884.8	10738.6	10602.4	10798.2	12130.6	12239.9	12969.2	11629.8	9488.6	9846.1	9297.0
67.5°	12455.6	12310.9	12143.4	12327.9	13867.4	13954.0	14151.2	11852.5	9041.6	8659.9	7192.7
70°	13751.1	13697.2	13897.2	14656.4	16641.5	16644.3	15666.7	11668.1	7817.0	6139.8	4161.8
72.5°	13579.4	13546.8	14601.0	16948.0	20137.8	20062.6	17101.2	10271.8	5265.7	2769.8	1559.4
75°	11140.2	11351.6	12984.9	16906.8	21393.6	21383.6	16222.9	6530.0	2178.1	1147.9	806.0
77.5°	5973.8	6308.7	8430.0	12482.5	16701.1	16952.3	11405.6	2284.5	935.1	735.0	557.6
80°	1948.2	2240.5	3360.1	6355.5	10852.2	10805.3	4888.3	896.8	639.9	520.8	386.0
82.5°	827.3	861.3	1501.3	3001.1	5569.4	5482.8	1556.6	515.1	449.8	356.2	238.4
85°	323.5	361.8	662.7	1387.7	2412.2	2359.7	561.9	255.4	288.0	232.7	141.9
87.5°	106.4	129.1	237.0	475.3	750.6	723.7	137.6	88.0	124.9	106.4	51.1
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°	3497.7	3497.7	3497.7	3497.7	3497.7	3497.7	3497.7	3497.7	3497.7	3497.7	3497.7
2.5°	3527.5	3550.2	3577.2	3616.9	3651.0	3679.3	3709.1	3727.6	3734.7	3756.0	3754.6
5°	3553.1	3602.7	3669.4	3734.7	3798.5	3836.9	3870.9	3887.9	3903.5	3914.9	3917.7
7.5°	3595.6	3659.5	3764.5	3849.6	3903.5	3934.8	3957.5	3951.8	3957.5	3960.3	3964.6
10°	3632.5	3721.9	3846.8	3927.7	3968.8	3970.2	3964.6	3944.7	3934.8	3936.2	3939.0
12.5°	3676.5	3775.8	3910.6	3978.7	3990.1	3958.9	3934.8	3900.7	3887.9	3882.3	3879.4
15°	3736.1	3849.6	3980.2	4005.7	3977.3	3937.6	3896.4	3841.1	3812.7	3790.0	3797.1
17.5°	3808.5	3933.3	4034.1	4015.6	3954.6	3889.4	3822.7	3738.9	3680.8	3656.6	3658.1
20°	3909.2	4021.3	4075.2	3994.4	3902.1	3802.8	3689.3	3587.1	3533.2	3509.1	3506.2
22.5°	4031.3	4139.1	4115.0	3957.5	3826.9	3668.0	3526.1	3450.9	3423.9	3406.9	3409.7
25°	4177.4	4269.6	4143.3	3903.5	3703.5	3489.2	3380.0	3355.8	3343.1	3330.3	3330.3
27.5°	4367.5	4417.2	4164.6	3824.1	3510.5	3299.1	3259.3	3263.6	3259.3	3238.1	3242.3
30°	4618.7	4608.8	4184.5	3695.0	3289.1	3127.4	3130.2	3148.7	3151.5	3137.3	3144.4
32.5°	4949.3	4848.6	4194.4	3527.5	3077.7	2977.0	2979.8	2999.7	3013.9	2989.7	3001.1
35°	5349.5	5128.1	4178.8	3317.5	2914.5	2833.7	2812.4	2818.0	2822.3	2799.6	2815.2
37.5°	5816.3	5441.7	4109.3	3084.8	2779.7	2693.2	2647.8	2609.5	2586.8	2565.5	2579.7
40°	6328.5	5783.7	3981.6	2857.8	2629.3	2544.2	2476.1	2403.7	2327.1	2298.7	2311.5
42.5°	6864.9	6135.6	3826.9	2640.7	2456.2	2386.7	2314.3	2209.3	2094.4	2036.2	2043.3
45°	7421.1	6496.0	3675.1	2426.4	2278.8	2249.0	2165.3	2039.0	1914.2	1840.4	1834.7
47.5°	7966.0	6836.5	3452.3	2210.7	2112.8	2145.5	2080.2	1963.8	1824.8	1708.4	1695.7
50°	8486.8	7155.8	3087.6	1992.2	1978.0	2114.2	2051.8	1884.4	1725.4	1576.5	1563.7
52.5°	9003.3	7414.0	2620.8	1793.6	1905.7	2105.7	2014.9	1830.5	1636.1	1480.0	1462.9
55°	9441.7	7547.4	2171.0	1623.3	1800.7	2033.4	1970.9	1766.6	1509.8	1343.8	1329.6
57.5°	9691.5	7439.6	1796.4	1455.8	1655.9	1914.2	1895.7	1630.4	1359.4	1231.7	1214.6
60°	9583.6	7002.5	1489.9	1309.7	1518.3	1785.0	1765.2	1495.6	1244.4	1123.8	1106.8
62.5°	8989.1	6169.6	1247.3	1182.0	1393.4	1653.1	1634.6	1392.0	1156.4	1040.1	1021.6
65°	7791.5	5018.8	1058.5	1075.6	1267.1	1494.2	1521.1	1305.4	1086.9	973.4	955.0
67.5°	5942.6	3635.4	911.0	983.3	1143.7	1338.1	1416.1	1243.0	1028.7	920.9	903.9
70°	3387.0	2064.6	786.1	893.9	1034.4	1193.3	1335.2	1193.3	966.3	876.9	865.6
72.5°	1284.2	947.9	679.7	804.5	929.4	1071.3	1245.8	1115.3	893.9	827.3	815.9
75°	685.4	577.5	571.8	699.5	808.8	952.1	1133.7	1038.7	840.0	874.1	902.5
77.5°	466.8	408.7	478.2	598.8	676.8	820.2	1014.6	922.3	727.9	725.1	668.3
80°	323.5	289.5	388.8	482.4	523.6	689.6	885.4	791.8	593.1	553.4	529.3
82.5°	194.4	188.7	290.9	360.4	370.3	532.1	733.6	664.1	485.3	422.8	425.7
85°	106.4	112.1	185.9	211.4	215.7	371.8	574.7	513.7	373.2	313.6	316.4
87.5°	29.8	38.3	68.1	83.7	103.6	193.0	342.0	305.1	187.3	130.5	130.5
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)