

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: P885189

Luminaire Tested: **NAV-SB6B-835-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6B-835-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28858 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

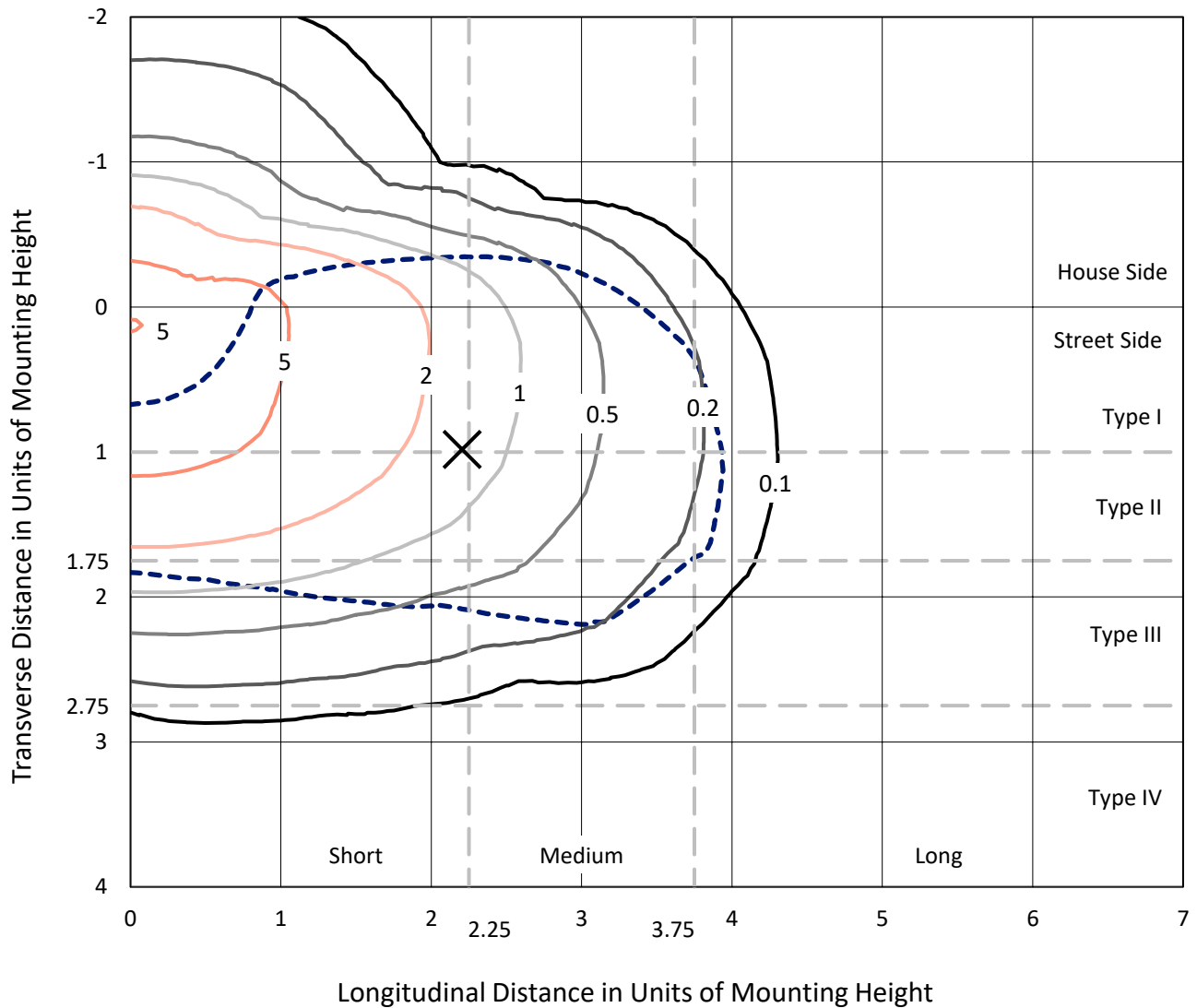
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 1.838  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.657  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

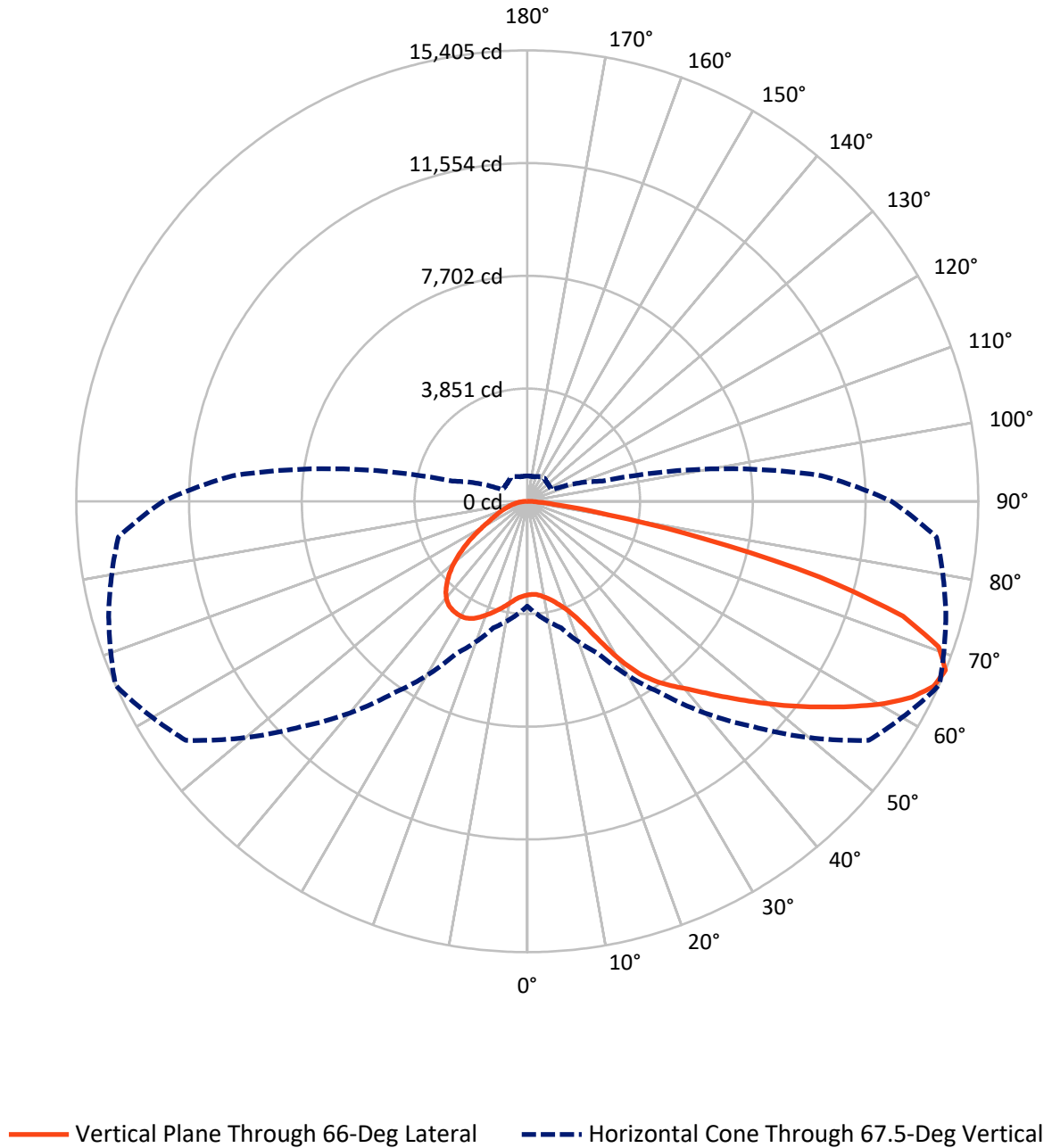
✕ Max cd  
 - - - 1/2 Max cd



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



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7175.5	0.0	7175.5
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	21682.5	0.0	21682.5
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	28858.0	0.0	28858.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.3	1.1
10°-20°	1048.4	3.6
20°-30°	2020.8	7.0
30°-40°	3543.3	12.3
40°-50°	5267.7	18.3
50°-60°	6677.3	23.1
60°-70°	6533.5	22.6
70°-80°	3116.6	10.8
80°-90°	333.1	1.2
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°	28858.0	100.0
0°-180°	28858.0	100.0

**Coefficient of Utilization**



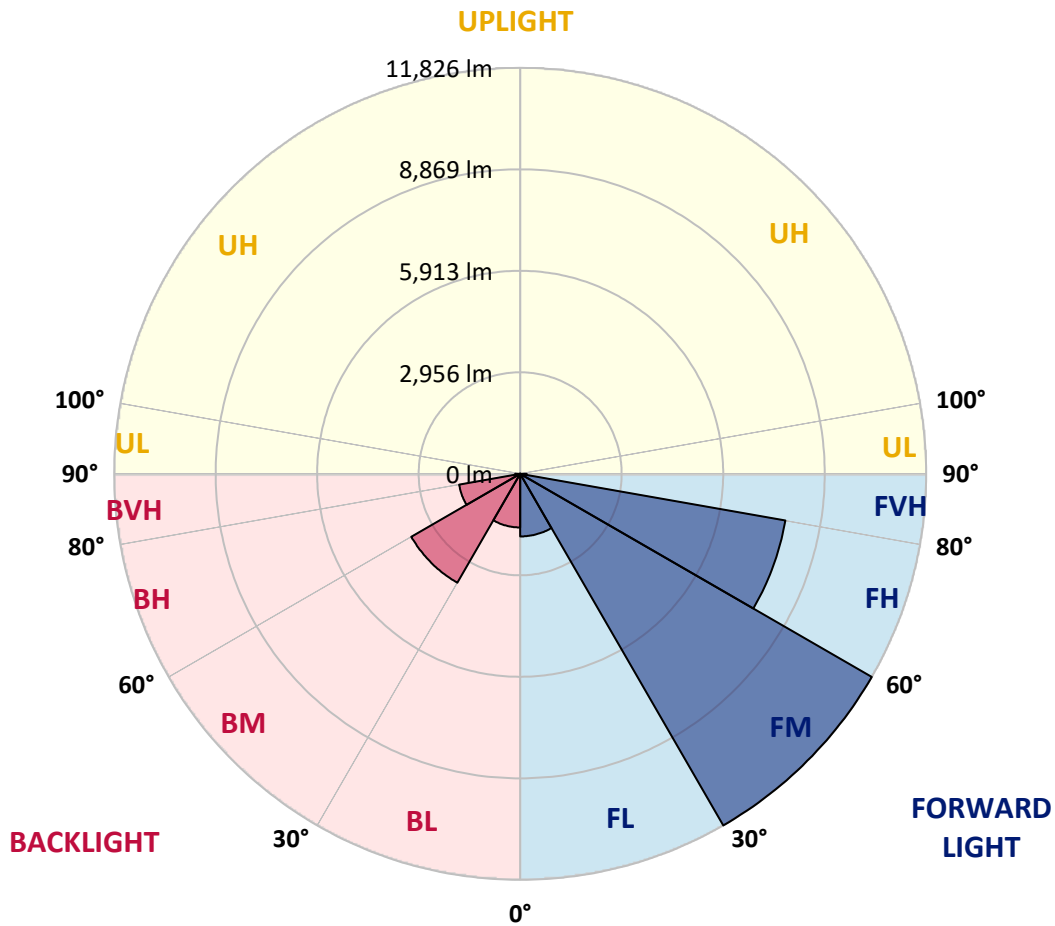
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1823.5	6.3			
FM (30°-60°)	11825.8	41.0			
FH (60°-80°)	7844.4	27.2			G4/12000
FVH (80°-90°)	188.8	0.7			G2/225
BL (0°-30°)	1563.1	5.4	B3/2500		
BM (30°-60°)	3662.4	12.7	B3/5000		
BH (60°-80°)	1805.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	144.2	0.5			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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3200.7	3200.7	3200.7	3200.7	3200.7	3200.7	3200.7	3200.7	3200.7	3200.7	3200.7
2.5°	3167.4	3185.6	3181.0	3173.4	3171.9	3175.0	3179.5	3184.1	3182.5	3190.1	3202.2
5°	3158.3	3176.5	3175.0	3175.0	3181.0	3193.2	3200.7	3208.3	3200.7	3209.8	3226.5
7.5°	3164.3	3178.0	3184.1	3190.1	3205.3	3228.0	3246.2	3262.9	3253.8	3264.4	3285.6
10°	3241.7	3252.3	3258.3	3258.3	3269.0	3294.7	3312.9	3343.3	3335.7	3352.4	3379.6
12.5°	3382.7	3393.3	3393.3	3387.2	3394.8	3411.5	3417.6	3450.9	3437.3	3464.6	3491.8
15°	3555.5	3576.8	3560.1	3549.5	3552.5	3569.2	3567.7	3593.4	3579.8	3602.5	3626.8
17.5°	3746.6	3773.9	3746.6	3745.1	3739.0	3757.2	3758.7	3781.4	3757.2	3773.9	3790.5
20°	3972.5	4010.4	3987.7	3995.2	3981.6	3989.2	3996.7	4030.1	3992.2	4004.3	3999.8
22.5°	4290.9	4336.4	4312.1	4340.9	4331.8	4325.8	4324.3	4383.4	4324.3	4328.8	4284.8
25°	4754.9	4809.4	4767.0	4806.4	4806.4	4826.1	4848.9	4924.7	4826.1	4797.3	4683.6
27.5°	5440.2	5494.8	5411.4	5435.6	5428.1	5476.6	5452.3	5640.3	5534.2	5487.2	5258.2
30°	6265.0	6362.0	6204.4	6198.3	6190.7	6268.0	6302.9	6427.2	6319.6	6272.6	5996.6
32.5°	7156.5	7258.1	7070.1	7015.5	6986.7	7033.7	7004.9	7105.0	7030.7	6957.9	6616.8
35°	8099.6	8199.7	8020.8	7914.7	7799.4	7700.9	7597.8	7623.5	7553.8	7443.1	7089.8
37.5°	8991.2	9174.6	8985.1	8871.4	8659.1	8466.6	8178.5	8058.7	7993.5	7891.9	7535.6
40°	9899.4	10004.0	9860.0	9762.9	9532.5	9230.7	8769.8	8516.6	8428.6	8330.1	8028.4
42.5°	10568.0	10668.1	10590.8	10524.1	10343.6	9993.4	9397.5	9080.6	8953.3	8842.6	8586.3
45°	11098.7	11173.0	11124.5	11148.7	11071.4	10731.8	10048.0	9685.6	9553.7	9418.7	9217.1
47.5°	11312.5	11391.3	11468.7	11612.7	11744.6	11494.4	10746.9	10340.6	10201.1	10063.1	9864.5
50°	11288.2	11368.6	11593.0	11899.3	12308.6	12225.3	11483.8	11038.1	10909.2	10751.5	10568.0
52.5°	11094.2	11185.1	11473.2	11982.7	12634.6	12772.6	12234.4	11758.3	11637.0	11449.0	11265.5
55°	10584.7	10639.3	11071.4	11793.1	12712.0	13154.7	12969.7	12525.5	12404.2	12141.9	11941.7
57.5°	9640.1	9718.9	10348.2	11282.2	12517.9	13414.0	13615.6	13332.1	13215.3	12837.8	12628.6
60°	8407.4	8533.3	9253.5	10424.0	12023.6	13412.5	14202.4	14125.1	14028.0	13523.1	13304.8
62.5°	7012.5	7158.1	7851.0	9211.0	11159.4	13031.9	14569.3	14789.2	14739.1	14155.4	13876.4
65°	5385.6	5485.7	6175.6	7641.7	9814.5	12214.6	14611.8	15242.5	15251.6	14636.0	14175.1
67.5°	3585.9	3873.9	4472.8	5734.3	8013.2	10878.9	14238.8	15316.8	15404.8	14801.3	14025.0
70°	1749.7	2128.8	2715.5	3726.9	5734.3	8830.4	13263.9	14707.3	14902.9	14319.2	13130.4
72.5°	726.3	849.1	1169.0	1839.2	3291.7	5958.7	11304.9	13054.6	13417.0	12687.7	11039.6
75°	489.7	530.7	668.7	943.1	1499.5	2938.4	8152.7	9734.1	10317.9	9582.5	7832.8
77.5°	377.5	403.3	486.7	659.6	891.5	1111.4	4363.7	5866.2	6168.0	5710.1	4075.6
80°	297.2	316.9	363.9	480.6	632.3	594.4	1487.4	2657.9	2832.3	2375.9	1310.0
82.5°	257.8	265.3	260.8	326.0	420.0	347.2	488.2	981.0	1082.6	785.4	427.6
85°	186.5	207.7	216.8	201.7	222.9	175.9	200.1	347.2	382.1	341.1	241.1
87.5°	75.8	112.2	138.0	130.4	81.9	50.0	62.2	101.6	116.7	127.4	78.8
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°	3200.7	3200.7	3200.7	3200.7	3200.7	3200.7	3200.7	3200.7	3200.7	3200.7	3200.7
2.5°	3203.8	3214.4	3222.0	3231.1	3237.1	3246.2	3264.4	3275.0	3276.5	3284.1	3282.6
5°	3232.6	3247.7	3264.4	3288.7	3316.0	3338.7	3373.6	3397.8	3406.9	3414.5	3413.0
7.5°	3294.7	3316.0	3346.3	3388.7	3428.2	3458.5	3500.9	3529.8	3558.6	3569.2	3570.7
10°	3387.2	3417.6	3461.5	3519.1	3561.6	3601.0	3645.0	3669.2	3698.1	3710.2	3716.2
12.5°	3502.5	3534.3	3591.9	3672.3	3711.7	3739.0	3754.2	3748.1	3754.2	3764.8	3767.8
15°	3634.4	3669.2	3734.4	3820.9	3848.2	3823.9	3790.5	3760.2	3755.7	3758.7	3769.3
17.5°	3790.5	3816.3	3892.1	3964.9	3945.2	3845.1	3772.3	3723.8	3699.6	3692.0	3702.6
20°	4008.9	4008.9	4071.0	4116.5	3984.6	3814.8	3701.1	3622.2	3572.2	3551.0	3546.4
22.5°	4274.2	4250.0	4289.4	4257.5	3977.0	3729.9	3572.2	3435.7	3359.9	3329.6	3325.1
25°	4610.8	4582.0	4571.4	4374.3	3922.5	3594.9	3338.7	3173.4	3106.7	3090.0	3093.1
27.5°	5118.7	5046.0	4908.0	4438.0	3822.4	3382.7	3065.8	2912.7	2874.7	2876.3	2880.8
30°	5795.0	5649.4	5311.3	4448.6	3658.6	3082.5	2786.8	2677.6	2659.4	2667.0	2692.8
32.5°	6421.2	6283.2	5723.7	4400.1	3406.9	2788.3	2536.6	2463.9	2436.6	2445.7	2457.8
35°	6912.4	6874.5	6105.8	4331.8	3097.6	2512.4	2312.2	2250.1	2197.0	2184.9	2194.0
37.5°	7376.4	7361.2	6392.4	4236.3	2791.4	2316.8	2131.8	2049.9	1972.6	1930.1	1931.7
40°	7885.8	7870.7	6580.4	4089.2	2520.0	2147.0	1969.6	1861.9	1766.4	1689.1	1696.6
42.5°	8459.0	8369.5	6669.8	3878.5	2289.5	2002.9	1837.7	1692.1	1566.3	1495.0	1499.5
45°	9085.2	8883.5	6668.3	3610.1	2095.4	1871.0	1696.6	1490.4	1373.7	1307.0	1303.9
47.5°	9749.3	9374.8	6586.4	3312.9	1907.4	1725.5	1478.3	1320.6	1243.3	1202.4	1193.3
50°	10434.6	9834.2	6447.0	2971.8	1714.8	1560.2	1341.9	1234.2	1175.1	1137.2	1123.5
52.5°	11079.0	10251.1	6278.7	2585.1	1519.2	1399.5	1281.2	1197.8	1135.6	1093.2	1075.0
55°	11677.9	10610.5	6040.6	2189.4	1360.0	1291.8	1252.4	1182.6	1111.4	1061.4	1041.6
57.5°	12210.1	10844.0	5629.7	1817.9	1246.3	1217.5	1222.1	1156.9	1075.0	1032.5	1005.3
60°	12652.8	11015.3	5021.7	1473.8	1153.8	1144.7	1175.1	1108.4	1012.8	964.3	943.1
62.5°	12918.2	11012.3	4275.7	1206.9	1075.0	1078.0	1112.9	1047.7	950.7	905.2	891.5
65°	12895.4	10742.4	3457.0	1032.5	999.2	1002.2	1047.7	981.0	899.1	871.8	870.3
67.5°	12439.0	10084.4	2651.9	918.8	915.8	929.4	982.5	935.5	867.3	864.2	868.8
70°	11203.3	8718.2	1910.4	827.9	829.4	849.1	918.8	906.7	850.6	856.7	855.1
72.5°	8983.6	6647.1	1282.7	732.3	733.8	765.7	858.2	884.0	833.9	914.3	926.4
75°	5983.0	4145.3	824.8	630.7	632.3	673.2	805.1	840.0	788.4	911.2	918.8
77.5°	2874.7	1863.4	597.4	530.7	530.7	568.6	695.9	752.0	671.7	708.1	648.9
80°	993.1	700.5	470.0	427.6	418.5	444.3	586.8	652.0	579.2	533.7	500.4
82.5°	391.2	363.9	377.5	332.1	301.7	318.4	456.4	538.3	426.1	385.1	383.6
85°	224.4	236.5	266.9	219.9	174.4	195.6	335.1	386.6	321.4	283.5	289.6
87.5°	60.6	83.4	122.8	113.7	78.8	83.4	159.2	213.8	185.0	142.5	147.1
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)