

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: P884961

Luminaire Tested: **NAV-SB6A-735-U-T4FT**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884961  
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-735-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

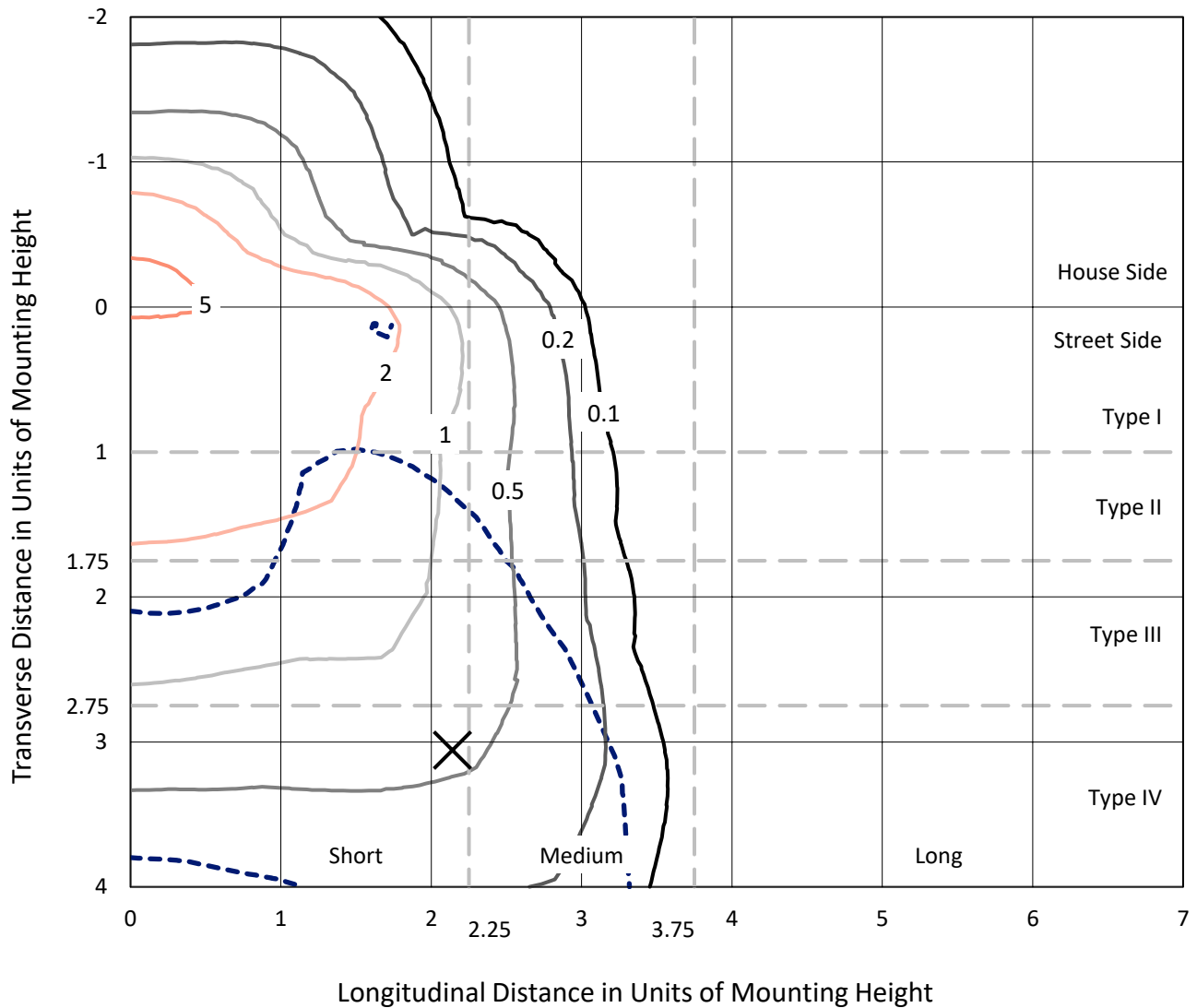
Lumens per Lamp: N/A  
Luminaire Lumens: 26911 lumens  
Efficiency: N/A  
Efficacy: 157.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

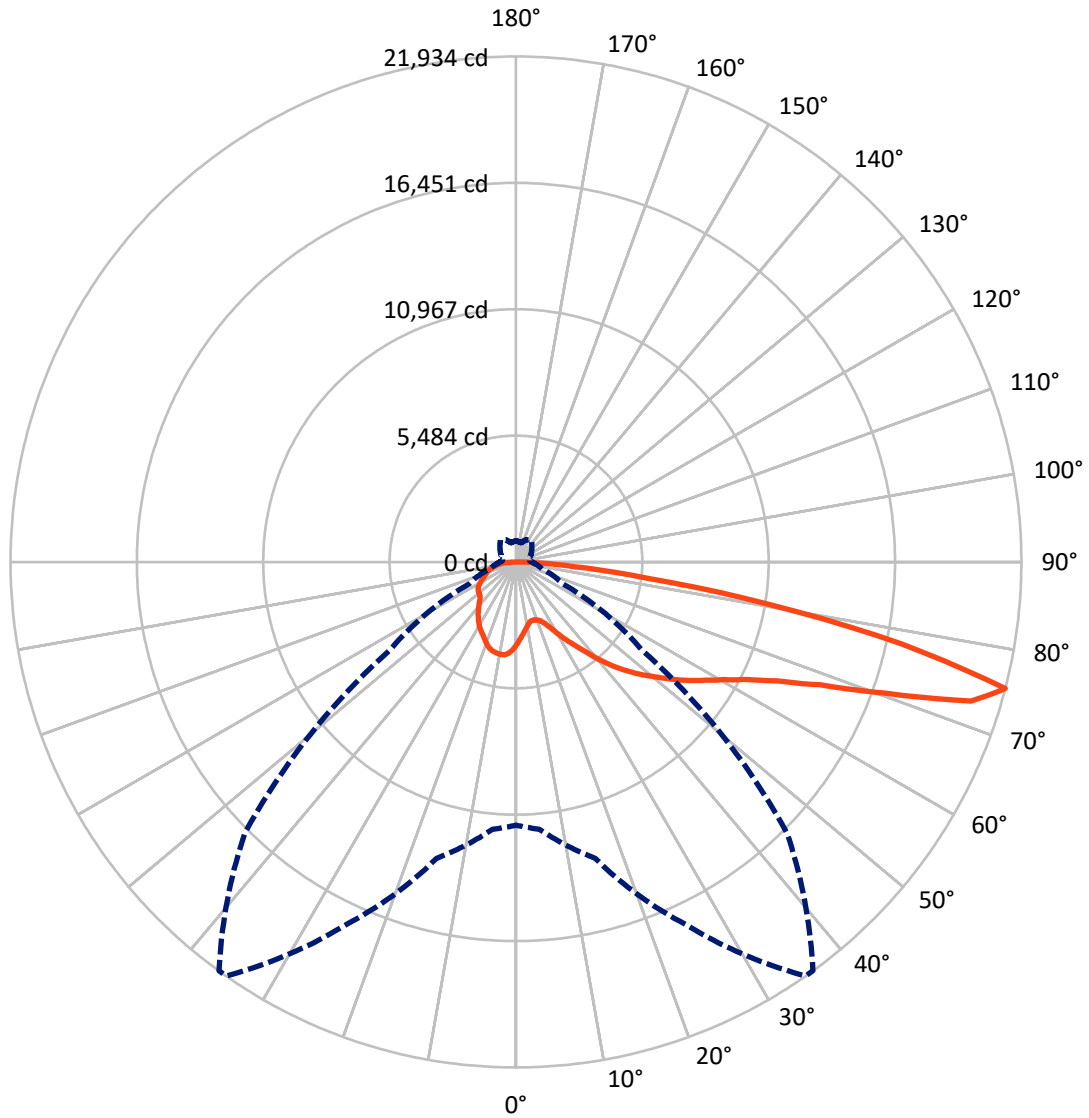
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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
<b>House Side</b>	Lumens	6404.1	0.0	6404.1
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	20506.9	0.0	20506.9
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	26911.0	0.0	26911.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.5	1.3
10°-20°	979.4	3.6
20°-30°	1644.6	6.1
30°-40°	2555.9	9.5
40°-50°	3793.7	14.1
50°-60°	5237.4	19.5
60°-70°	6354.1	23.6
70°-80°	5251.2	19.5
80°-90°	755.3	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°	26911.0	100.0
0°-180°	26911.0	100.0

**Coefficient of Utilization**



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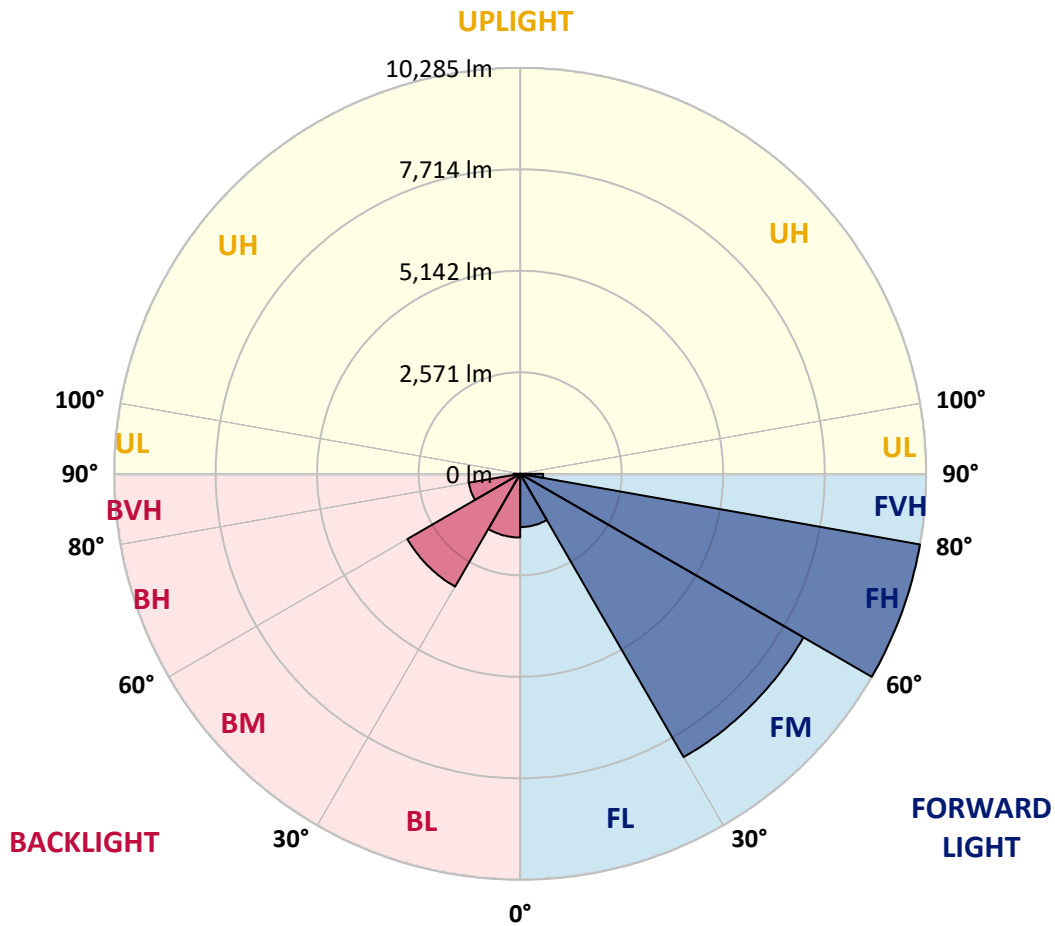
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1349.5	5.0			
FM (30°-60°)	8287.1	30.8			
FH (60°-80°)	10285.0	38.2			G4/12000
FVH (80°-90°)	585.2	2.2			G4/750
BL (0°-30°)	1613.9	6.0	B3/2500		
BM (30°-60°)	3299.8	12.3	B3/5000		
BH (60°-80°)	1320.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	170.1	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°	3586.1	3586.1	3586.1	3586.1	3586.1	3586.1	3586.1	3586.1	3586.1	3586.1	3586.1
2.5°	3306.8	3327.1	3335.8	3331.5	3353.3	3350.4	3380.9	3418.8	3471.1	3522.1	3596.3
5°	3052.2	3074.0	3092.9	3110.4	3152.5	3165.6	3213.6	3286.4	3382.4	3479.9	3602.1
7.5°	2815.0	2833.9	2863.0	2895.0	2966.3	2979.4	3059.4	3172.9	3306.8	3449.3	3618.1
10°	2621.5	2640.5	2671.0	2707.4	2796.1	2812.1	2914.0	3065.3	3239.8	3420.2	3635.5
12.5°	2538.6	2544.4	2561.9	2598.3	2675.4	2685.6	2797.6	2970.7	3174.4	3398.4	3661.7
15°	2534.3	2545.9	2547.3	2566.3	2630.3	2634.6	2737.9	2909.6	3133.6	3394.0	3701.0
17.5°	2577.9	2586.6	2573.5	2585.2	2639.0	2646.3	2727.7	2880.5	3120.5	3413.0	3767.9
20°	2694.3	2701.6	2662.3	2646.3	2685.6	2691.4	2771.4	2899.4	3133.6	3452.2	3859.6
22.5°	2941.6	2946.0	2849.9	2784.5	2787.4	2790.3	2860.1	2976.5	3184.5	3523.5	3976.0
25°	3327.1	3324.2	3171.5	3044.9	2972.1	2956.1	3002.7	3101.6	3270.4	3618.1	4125.8
27.5°	3778.1	3756.3	3603.5	3414.4	3255.8	3232.6	3222.4	3264.6	3392.6	3743.2	4309.1
30°	4287.3	4266.9	4102.5	3855.2	3635.5	3597.7	3501.7	3479.9	3574.4	3913.4	4563.7
32.5°	4845.9	4832.8	4636.4	4336.7	4042.9	3999.2	3837.8	3779.6	3853.8	4170.9	4918.7
35°	5314.4	5302.7	5139.8	4831.4	4472.0	4418.2	4253.8	4188.4	4226.2	4501.1	5382.7
37.5°	5737.7	5731.9	5592.2	5349.3	4978.3	4912.8	4728.1	4706.3	4699.0	4936.1	5945.8
40°	6130.5	6116.0	5970.5	5842.5	5567.5	5507.9	5344.9	5326.0	5270.7	5471.5	6583.0
42.5°	6565.5	6527.7	6316.7	6257.1	6182.9	6133.4	6035.9	6038.9	5916.7	6075.2	7258.0
45°	6920.5	6898.6	6681.9	6647.0	6727.0	6706.6	6791.0	6812.8	6575.7	6708.1	7959.2
47.5°	7301.6	7281.3	7098.0	7073.2	7290.0	7295.8	7594.0	7601.3	7218.7	7365.6	8661.9
50°	7771.5	7742.4	7560.6	7591.1	7834.1	7855.9	8401.4	8352.0	7810.8	8033.4	9358.7
52.5°	8081.4	8098.9	8059.6	8109.0	8440.7	8461.1	9195.8	9069.2	8397.1	8692.4	10042.5
55°	8309.8	8344.7	8466.9	8580.4	9080.8	9101.2	9945.0	9751.5	8883.0	9303.4	10685.5
57.5°	8603.7	8554.2	8782.6	9003.7	9688.9	9742.8	10673.8	10409.1	9313.6	9830.1	11126.3
60°	9025.6	8990.6	9168.1	9495.5	10369.8	10455.6	11444.9	11001.2	9629.3	10247.6	11212.1
62.5°	9881.0	9793.7	9821.3	10110.8	11228.1	11341.6	12314.9	11517.6	9786.4	10410.5	10752.4
65°	11159.7	11009.9	10870.2	11071.0	12437.1	12549.1	13296.8	11923.5	9728.2	10094.8	9531.8
67.5°	12770.2	12621.8	12450.1	12639.3	14217.7	14306.5	14508.7	12151.9	9270.0	8878.6	7374.4
70°	14098.4	14043.1	14248.3	15026.6	17061.9	17064.8	16062.4	11962.8	8014.5	6294.9	4266.9
72.5°	13922.4	13888.9	14969.9	17376.1	20646.5	20569.4	17533.2	10531.3	5398.7	2839.8	1598.8
75°	11421.6	11638.4	13312.8	17333.9	21934.0	21923.8	16632.7	6695.0	2233.1	1176.9	826.3
77.5°	6124.7	6468.0	8642.9	12797.8	17123.0	17380.5	11693.7	2342.2	958.7	753.6	571.7
80°	1997.4	2297.1	3445.0	6516.0	11126.3	11078.3	5011.8	919.4	656.1	533.9	395.7
82.5°	848.1	883.1	1539.2	3076.9	5710.1	5621.3	1595.9	528.1	461.2	365.2	244.4
85°	331.7	371.0	679.4	1422.8	2473.2	2419.3	576.1	261.9	295.3	238.6	145.5
87.5°	109.1	132.4	243.0	487.4	769.6	741.9	141.1	90.2	128.0	109.1	52.4
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°	3586.1	3586.1	3586.1	3586.1	3586.1	3586.1	3586.1	3586.1	3586.1	3586.1	3586.1
2.5°	3616.6	3639.9	3667.5	3708.3	3743.2	3772.3	3802.8	3821.7	3829.0	3850.8	3849.4
5°	3642.8	3693.7	3762.1	3829.0	3894.5	3933.8	3968.7	3986.1	4002.1	4013.8	4016.7
7.5°	3686.5	3751.9	3859.6	3946.9	4002.1	4034.2	4057.4	4051.6	4057.4	4060.3	4064.7
10°	3724.3	3815.9	3944.0	4026.9	4069.1	4070.5	4064.7	4044.3	4034.2	4035.6	4038.5
12.5°	3769.4	3871.2	4009.4	4079.2	4090.9	4058.9	4034.2	3999.2	3986.1	3980.3	3977.4
15°	3830.5	3946.9	4080.7	4106.9	4077.8	4037.1	3994.9	3938.1	3909.0	3885.8	3893.0
17.5°	3904.7	4032.7	4136.0	4117.1	4054.5	3987.6	3919.2	3833.4	3773.7	3749.0	3750.5
20°	4008.0	4122.9	4178.2	4095.3	4000.7	3898.9	3782.5	3677.7	3622.4	3597.7	3594.8
22.5°	4133.1	4243.6	4218.9	4057.4	3923.6	3760.6	3615.2	3538.1	3510.4	3493.0	3495.9
25°	4282.9	4377.5	4248.0	4002.1	3797.0	3577.3	3465.3	3440.6	3427.5	3414.4	3414.4
27.5°	4477.9	4528.8	4269.8	3920.7	3599.2	3382.4	3341.7	3346.0	3341.7	3319.8	3324.2
30°	4735.4	4725.2	4290.2	3788.3	3372.2	3206.4	3209.3	3228.2	3231.1	3216.6	3223.8
32.5°	5074.3	4971.0	4300.4	3616.6	3155.5	3052.2	3055.1	3075.4	3090.0	3065.3	3076.9
35°	5484.6	5257.6	4284.4	3401.3	2988.2	2905.2	2883.4	2889.2	2893.6	2870.3	2886.3
37.5°	5963.2	5579.1	4213.1	3162.7	2849.9	2761.2	2714.6	2675.4	2652.1	2630.3	2644.8
40°	6488.4	5929.7	4082.2	2930.0	2695.7	2608.4	2538.6	2464.4	2385.9	2356.8	2369.9
42.5°	7038.3	6290.5	3923.6	2707.4	2518.3	2447.0	2372.8	2265.1	2147.3	2087.6	2094.9
45°	7608.6	6660.1	3767.9	2487.7	2336.4	2305.9	2220.0	2090.5	1962.5	1886.9	1881.1
47.5°	8167.2	7009.2	3539.5	2266.6	2166.2	2199.7	2132.7	2013.4	1870.9	1751.6	1738.5
50°	8701.1	7336.5	3165.6	2042.5	2028.0	2167.6	2103.6	1932.0	1769.0	1616.3	1603.2
52.5°	9230.7	7601.3	2687.0	1838.9	1953.8	2158.9	2065.8	1876.7	1677.4	1517.4	1499.9
55°	9680.2	7738.1	2225.8	1664.3	1846.1	2084.7	2020.7	1811.2	1547.9	1377.7	1363.1
57.5°	9936.3	7627.5	1841.8	1492.6	1697.7	1962.5	1943.6	1671.6	1393.7	1262.8	1245.3
60°	9825.7	7179.4	1527.5	1342.8	1556.6	1830.1	1809.8	1533.4	1275.9	1152.2	1134.7
62.5°	9216.1	6325.5	1278.8	1211.8	1428.6	1694.8	1675.9	1427.2	1185.7	1066.4	1047.5
65°	7988.3	5145.6	1085.3	1102.7	1299.1	1531.9	1559.5	1338.4	1114.4	998.0	979.1
67.5°	6092.7	3727.2	934.0	1008.2	1172.6	1371.9	1451.9	1274.4	1054.7	944.2	926.7
70°	3472.6	2116.7	806.0	916.5	1060.5	1223.5	1369.0	1223.5	990.7	899.1	887.4
72.5°	1316.6	971.8	696.8	824.9	952.9	1098.4	1277.3	1143.5	916.5	848.1	836.5
75°	702.7	592.1	586.3	717.2	829.2	976.2	1162.4	1064.9	861.2	896.2	925.3
77.5°	478.6	419.0	490.3	613.9	693.9	840.9	1040.2	945.6	746.3	743.4	685.2
80°	331.7	296.8	398.6	494.6	536.8	707.0	907.8	811.8	608.1	567.4	542.6
82.5°	199.3	193.5	298.2	369.5	379.7	545.5	752.1	680.8	497.5	433.5	436.4
85°	109.1	114.9	190.6	216.8	221.1	381.2	589.2	526.6	382.6	321.5	324.4
87.5°	30.6	39.3	69.8	85.8	106.2	197.9	350.6	312.8	192.0	133.8	133.8
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)