

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: McGRAW-EDISON

Report Number: P454160

Luminaire Tested: **GALN-SA5B-727-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-727-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23779 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

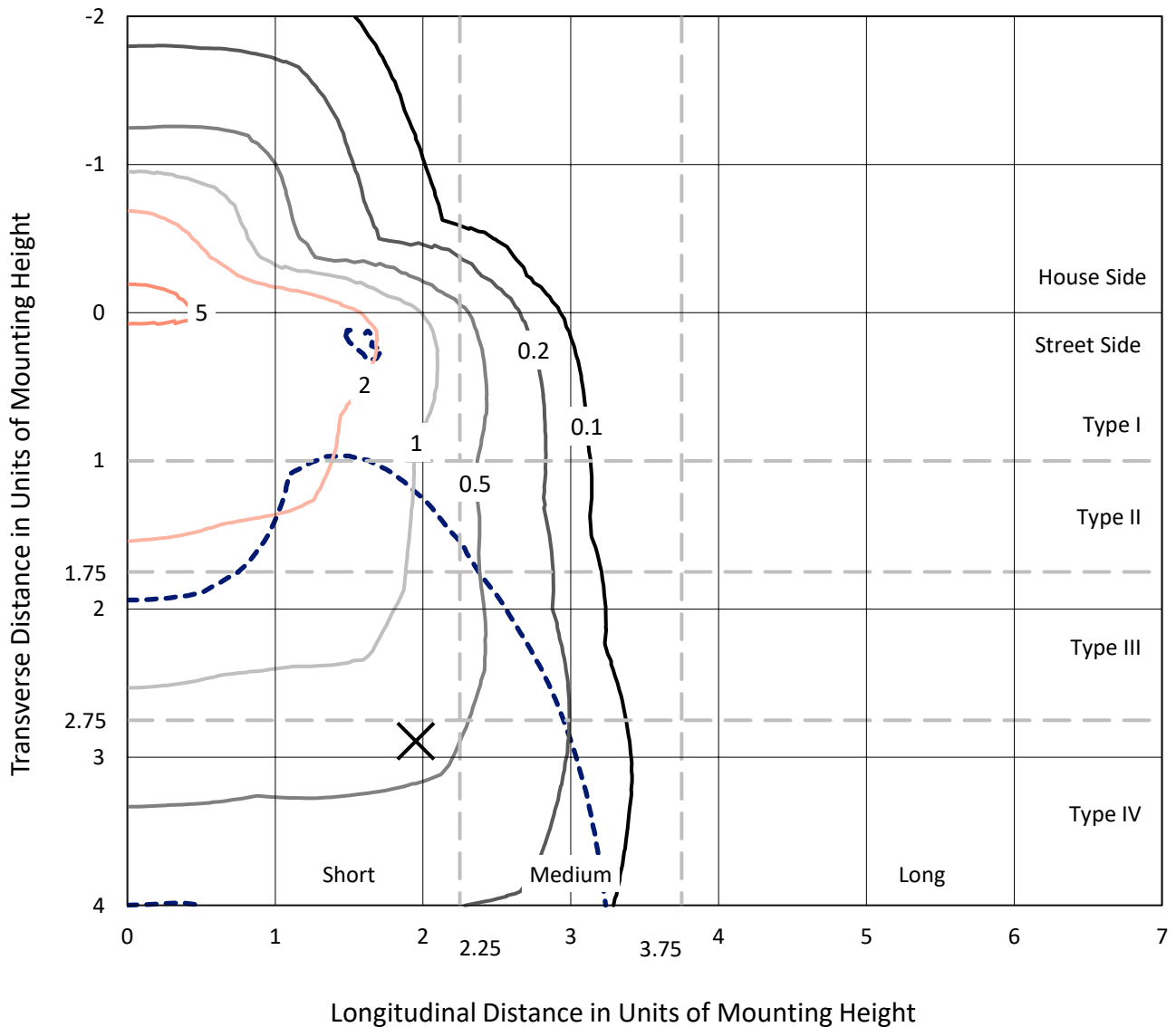
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

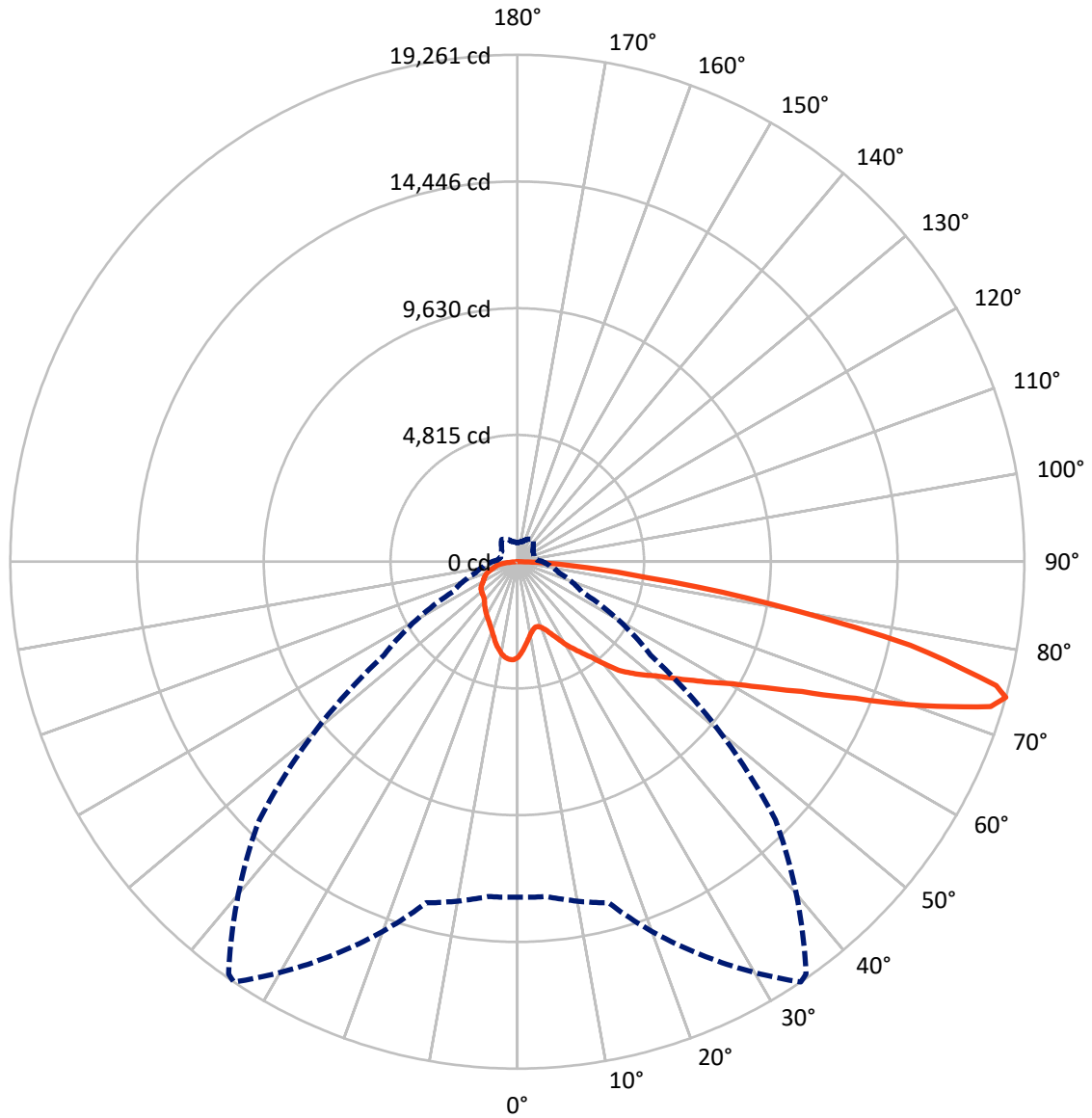
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5060.4	0.0	5060.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	18718.7	0.0	18718.7
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	23779.0	0.0	23779.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.2	1.4
10°-20°	903.9	3.8
20°-30°	1490.3	6.3
30°-40°	2232.2	9.4
40°-50°	3245.0	13.6
50°-60°	4532.5	19.1
60°-70°	5674.5	23.9
70°-80°	4692.4	19.7
80°-90°	678.0	2.9
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°	23779.0	100.0
0°-180°	23779.0	100.0

**Coefficient of Utilization**



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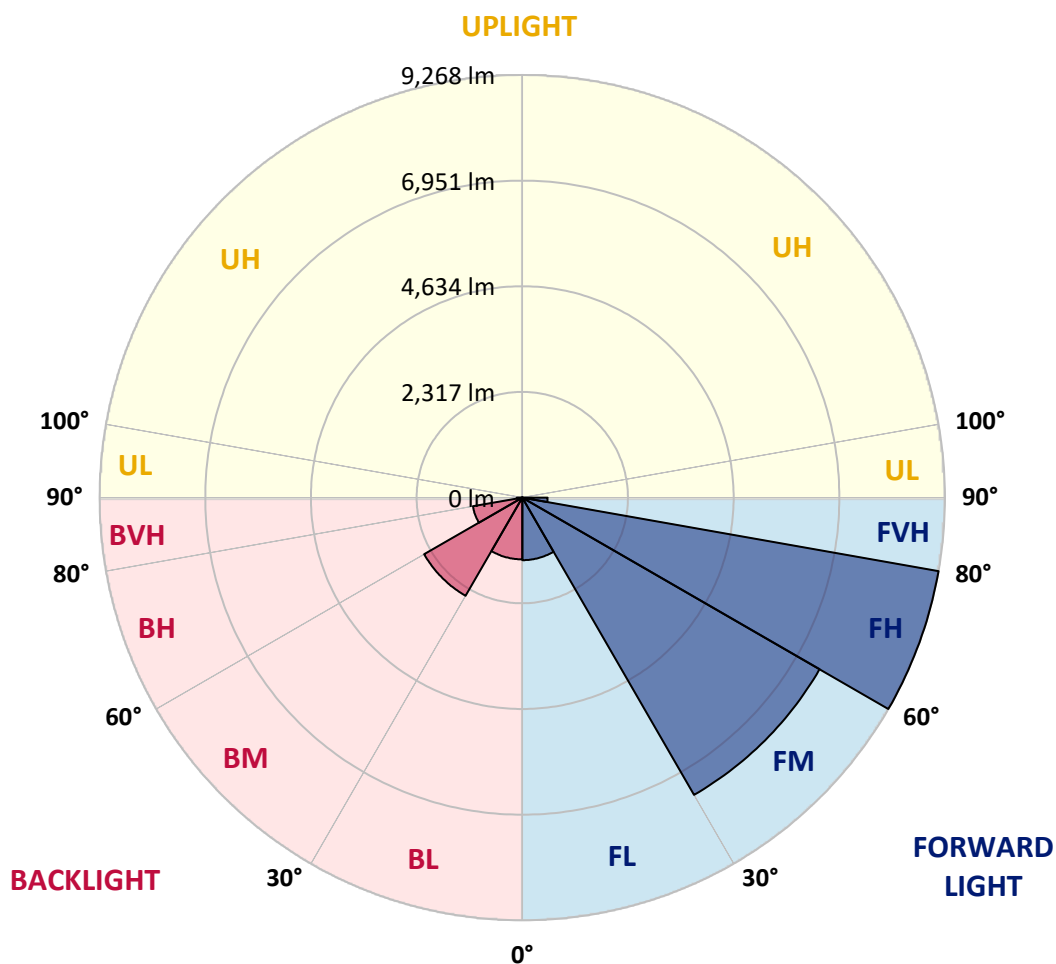
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1370.8	5.8			
FM	(30°-60°)	7524.7	31.6			
FH	(60°-80°)	9267.8	39.0			G4/12000
FVH	(80°-90°)	555.4	2.3			G4/750
BL	(0°-30°)	1353.6	5.7	B3/2500		
BM	(30°-60°)	2485.2	10.5	B2/2500		
BH	(60°-80°)	1099.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	122.6	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6
2.5°	3355.3	3372.4	3381.6	3414.5	3422.4	3433.0	3460.6	3497.5	3545.0	3587.1	3624.0
5°	3076.0	3102.3	3118.1	3147.1	3203.8	3209.0	3282.8	3367.1	3463.3	3552.9	3626.6
7.5°	2811.2	2840.2	2853.4	2906.0	2981.1	2993.0	3101.0	3234.1	3394.8	3530.5	3643.8
10°	2612.3	2626.8	2655.8	2695.3	2784.9	2792.8	2933.7	3111.6	3319.7	3519.9	3672.7
12.5°	2504.3	2512.2	2518.7	2560.9	2649.2	2661.0	2808.6	3010.1	3260.4	3527.8	3720.2
15°	2520.1	2522.7	2493.7	2501.6	2572.8	2589.9	2736.1	2942.9	3223.5	3547.6	3791.3
17.5°	2653.1	2643.9	2572.8	2535.9	2585.9	2593.8	2721.6	2916.6	3206.4	3584.5	3865.1
20°	2862.6	2849.4	2726.9	2645.2	2674.2	2680.8	2769.0	2936.3	3223.5	3645.1	3979.7
22.5°	3123.4	3118.1	2932.4	2833.6	2832.3	2878.4	3007.5	3274.9	3728.1	4099.6	
25°	3488.3	3460.6	3218.3	3090.5	3054.9	3052.3	3047.0	3124.7	3340.8	3816.3	4241.8
27.5°	3862.4	3815.0	3599.0	3402.7	3326.3	3317.1	3282.8	3290.7	3425.1	3916.4	4403.9
30°	4198.4	4168.1	3965.2	3747.8	3656.9	3635.9	3541.0	3497.5	3566.0	4096.9	4662.1
32.5°	4455.2	4436.8	4278.7	4081.1	3946.7	3942.8	3804.5	3768.9	3786.0	4315.6	4957.1
35°	4663.4	4670.0	4589.6	4418.4	4264.2	4241.8	4149.6	4104.8	4054.8	4631.8	5328.6
37.5°	4947.9	4962.4	4957.1	4809.6	4621.2	4626.5	4605.4	4531.6	4398.6	4984.8	5741.0
40°	5261.4	5272.0	5270.7	5214.0	5115.2	5120.5	5112.6	5028.3	4829.4	5434.0	6199.4
42.5°	5694.9	5644.8	5514.4	5571.0	5629.0	5654.0	5708.0	5627.7	5355.0	5913.5	6630.2
45°	6179.6	6084.8	5789.7	5816.0	6030.8	6078.2	6375.9	6265.3	5925.4	6464.2	7137.3
47.5°	6485.3	6391.7	6142.7	6137.5	6422.0	6468.1	6995.1	6954.2	6444.4	7058.3	7756.5
50°	6757.9	6744.8	6464.2	6531.4	6809.3	6877.8	7669.5	7631.3	6962.1	7759.1	8431.0
52.5°	7162.4	7055.7	6831.7	6970.0	7337.6	7427.2	8338.7	8226.8	7437.7	8378.3	9085.7
55°	7344.2	7319.1	7306.0	7425.8	7930.4	7994.9	8989.5	8732.6	7843.4	8902.6	9583.6
57.5°	7830.3	7784.1	7914.6	7996.2	8628.6	8727.4	9669.3	9260.9	8199.1	9318.8	9826.0
60°	8459.9	8434.9	8554.8	8702.3	9408.4	9558.6	10443.9	9711.4	8485.0	9528.3	9693.0
62.5°	9400.5	9397.9	9375.5	9691.7	10513.7	10652.0	11333.1	10150.1	8529.8	9371.5	9005.3
65°	10749.5	10702.1	10507.1	10852.2	11889.0	12051.0	12259.1	10395.1	8259.7	8566.6	7582.6
67.5°	12160.3	12157.7	11999.6	12447.5	13863.7	14031.0	13417.1	10341.1	7510.1	6939.7	5385.3
70°	13330.1	13273.5	13475.0	14668.6	16386.4	16580.0	14430.1	9704.8	5982.0	4583.0	3199.8
72.5°	13610.7	13613.4	14032.3	16381.1	18808.9	18839.2	14795.0	7865.8	4003.4	2528.0	1600.6
74°	12746.6	12769.0	13418.4	16466.7	19260.8	19123.8	13862.3	6182.3	2707.1	1650.6	1154.0
75°	11634.7	11493.8	12433.0	15896.3	18791.8	18644.3	12770.3	4961.1	2065.6	1318.7	1010.4
77.5°	6220.5	6364.1	7813.1	11862.6	15266.6	15096.7	8658.9	2379.1	1115.8	918.2	727.2
80°	2214.4	2442.3	3433.0	6207.3	9787.8	9840.5	4132.5	1090.8	785.1	677.1	513.8
82.5°	903.7	928.7	1474.1	2754.6	4970.3	5017.7	1687.5	648.1	561.2	466.3	306.9
85°	353.0	363.6	652.1	1238.3	2120.9	2259.2	583.6	342.5	345.1	267.4	156.8
87.5°	118.6	134.4	267.4	412.3	720.6	706.1	169.9	101.4	123.8	115.9	48.7
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°	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6
2.5°	3642.4	3667.5	3684.6	3703.0	3720.2	3725.4	3721.5	3733.3	3734.7	3736.0	3737.3
5°	3663.5	3697.8	3730.7	3749.1	3757.0	3750.5	3728.1	3716.2	3705.7	3697.8	3700.4
7.5°	3692.5	3741.2	3771.5	3779.4	3758.4	3728.1	3672.7	3629.3	3601.6	3583.2	3581.8
10°	3737.3	3784.7	3809.7	3787.3	3729.4	3655.6	3568.7	3487.0	3425.1	3406.6	3405.3
12.5°	3793.9	3847.9	3846.6	3780.8	3679.3	3547.6	3406.6	3311.8	3227.5	3185.3	3202.4
15°	3867.7	3908.5	3870.3	3751.8	3591.1	3410.6	3236.7	3107.6	3012.8	2968.0	2970.6
17.5°	3953.3	3988.9	3887.5	3700.4	3467.2	3235.4	3033.8	2911.3	2836.2	2803.3	2800.7
20°	4060.0	4070.6	3887.5	3610.8	3307.8	3031.2	2838.9	2753.2	2711.1	2694.0	2699.2
22.5°	4174.6	4153.6	3866.4	3484.4	3098.4	2817.8	2688.7	2650.5	2629.4	2626.8	2629.4
25°	4303.7	4244.5	3822.9	3313.1	2879.7	2633.4	2558.3	2564.9	2568.8	2568.8	2578.0
27.5°	4461.8	4343.3	3750.5	3097.1	2624.1	2462.1	2441.0	2487.1	2508.2	2512.2	2518.7
30°	4670.0	4451.3	3630.6	2827.0	2406.8	2308.0	2344.9	2406.8	2430.5	2445.0	2442.3
32.5°	4917.6	4569.8	3468.6	2557.0	2231.6	2200.0	2244.7	2308.0	2334.3	2342.2	2331.7
35°	5208.8	4704.2	3255.1	2304.0	2078.8	2097.2	2149.9	2169.7	2193.4	2193.4	2198.6
37.5°	5522.3	4812.2	2994.3	2072.2	1960.2	2027.4	2065.6	2047.1	2036.6	2023.4	2030.0
40°	5841.1	4892.6	2655.8	1843.0	1841.6	1954.9	1965.5	1912.8	1870.6	1857.4	1850.9
42.5°	6119.0	4942.7	2350.1	1665.1	1729.7	1883.8	1891.7	1807.4	1740.2	1700.7	1687.5
45°	6447.1	5000.6	2051.1	1517.6	1625.6	1827.1	1846.9	1733.6	1634.8	1551.8	1530.7
47.5°	6896.3	5132.3	1815.3	1403.0	1550.5	1791.6	1819.2	1673.0	1542.6	1434.6	1417.5
50°	7403.4	5312.8	1632.2	1325.2	1492.5	1760.0	1794.2	1611.1	1457.0	1337.1	1323.9
52.5°	7868.5	5410.3	1474.1	1255.4	1435.9	1702.0	1761.3	1566.3	1372.7	1239.6	1227.8
55°	8122.7	5252.2	1318.7	1186.9	1358.2	1626.9	1715.2	1504.4	1291.0	1188.2	1171.1
57.5°	8157.0	4925.5	1177.7	1113.2	1276.5	1534.7	1629.5	1429.3	1238.3	1152.7	1138.2
60°	7892.2	4438.1	1068.4	1052.6	1193.5	1430.6	1533.4	1363.4	1184.3	1113.2	1098.7
62.5°	7233.5	3908.5	992.0	997.2	1109.2	1321.3	1462.2	1300.2	1132.9	1069.7	1056.5
65°	6100.6	3226.2	918.2	940.6	1034.1	1235.7	1397.7	1247.5	1081.5	1036.7	1024.9
67.5°	4237.9	2329.1	857.6	881.3	963.0	1148.7	1322.6	1190.9	1023.6	999.9	981.4
70°	2346.2	1433.3	786.5	814.1	889.2	1051.2	1238.3	1105.2	939.3	928.7	902.4
72.5°	1233.0	912.9	706.1	736.4	789.1	926.1	1109.2	1011.7	856.3	811.5	777.2
74°	963.0	748.2	652.1	683.7	719.3	852.3	1032.8	944.5	797.0	744.3	717.9
75°	839.1	666.6	606.0	646.8	678.4	802.3	973.5	897.1	764.1	714.0	690.3
77.5°	592.8	499.3	495.3	544.1	561.2	703.5	877.3	816.7	681.1	628.4	606.0
80°	416.3	374.1	392.6	422.9	446.6	621.8	814.1	706.1	558.6	496.6	488.7
82.5°	271.4	245.0	280.6	308.3	316.2	458.4	657.4	536.2	407.1	330.7	306.9
85°	125.1	122.5	160.7	156.8	155.4	223.9	389.9	313.5	234.5	175.2	164.7
87.5°	31.6	30.3	39.5	32.9	39.5	34.3	35.6	9.2	1.3	0.0	0.0
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)