

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: P302792

Luminaire Tested: **GLNA-AF-06-LED-E1-T4W-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302792  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-06-LED-E1-T4W-7027  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30611.7 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

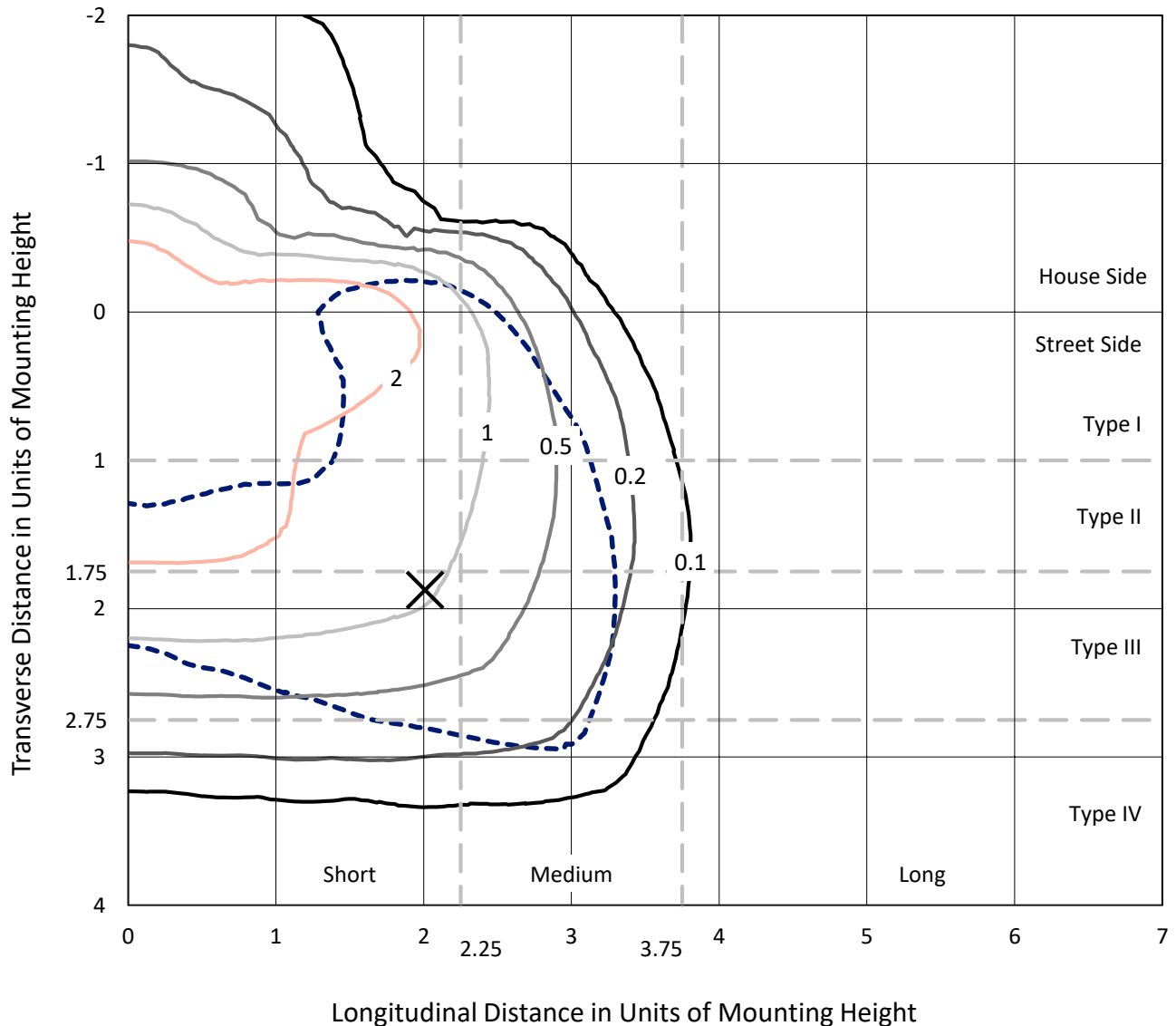
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

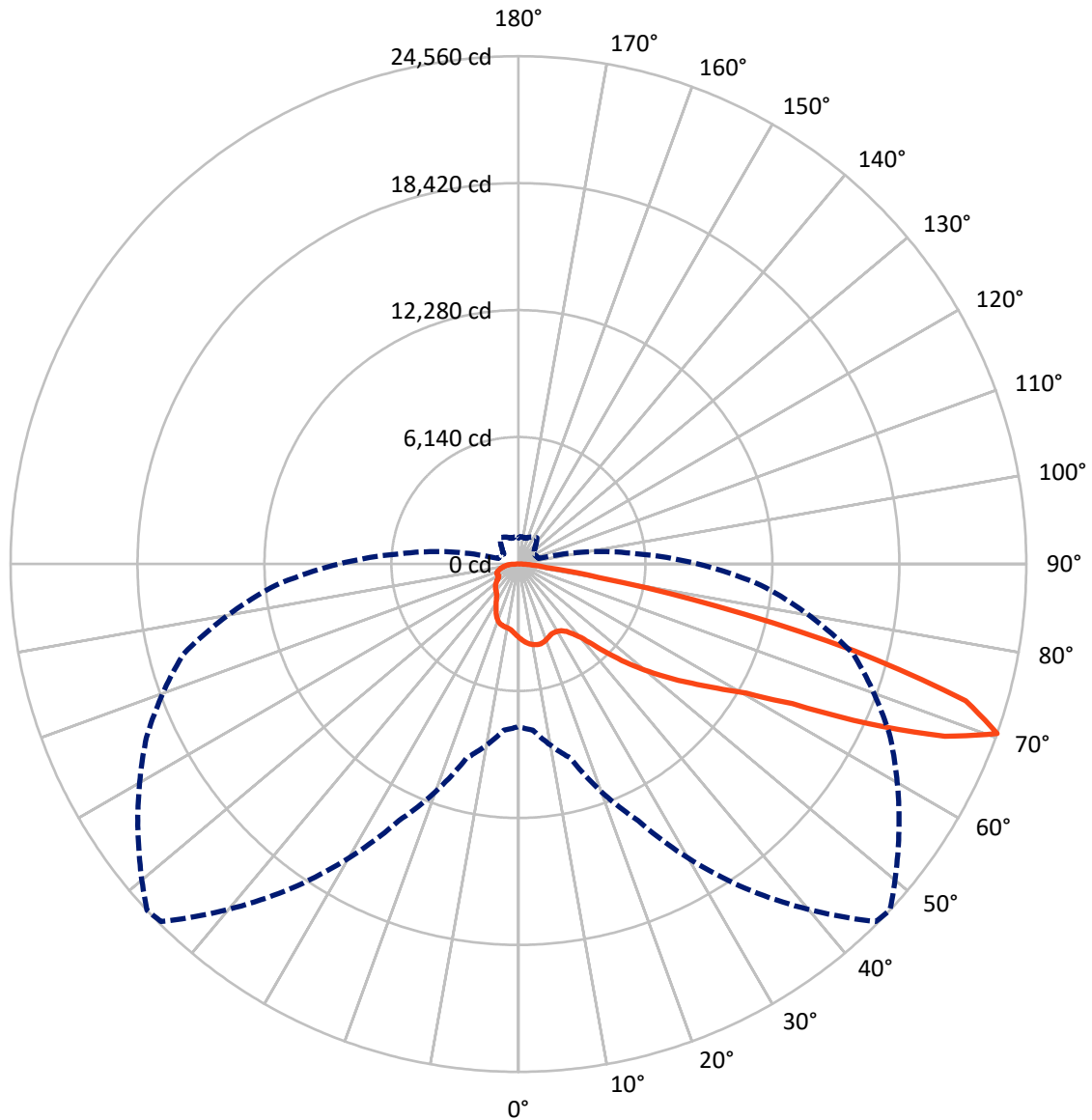
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6386.2	0.0	6386.2
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	24225.5	0.0	24225.5
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	30611.7	0.0	30611.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.3	1.1
10°-20°	998.5	3.3
20°-30°	1474.4	4.8
30°-40°	2143.1	7.0
40°-50°	3856.8	12.6
50°-60°	6681.5	21.8
60°-70°	9536.4	31.2
70°-80°	4895.4	16.0
80°-90°	685.4	2.2
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°	30611.7	100.0
0°-180°	30611.7	100.0



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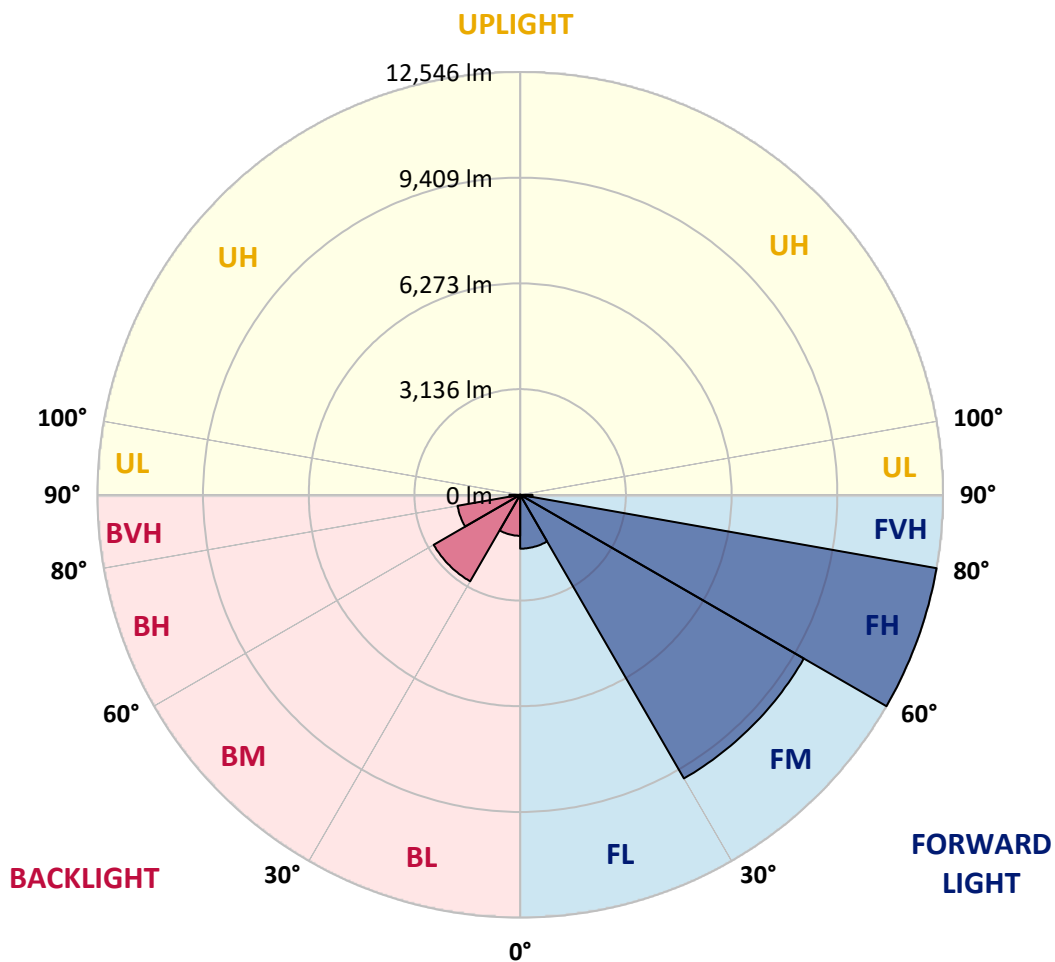
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1597.3	5.2			
FM	(30°-60°)	9717.0	31.7			
FH	(60°-80°)	12545.5	41.0			G5
FVH	(80°-90°)	365.7	1.2			G3/500
BL	(0°-30°)	1216.0	4.0	B3/2500		
BM	(30°-60°)	2964.3	9.7	B3/5000		
BH	(60°-80°)	1886.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	319.6	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3551.8	3551.8	3551.8	3551.8	3551.8	3551.8	3551.8	3551.8	3551.8	3551.8	3551.8
2.5°	3760.6	3753.1	3750.2	3744.2	3736.8	3699.2	3691.8	3665.1	3628.0	3588.9	3548.9
5°	4007.9	4006.4	3989.6	3959.9	3912.4	3830.3	3811.0	3745.7	3657.7	3572.6	3488.0
7.5°	4225.0	4211.6	4180.5	4120.6	4037.5	3925.8	3899.0	3808.0	3687.4	3571.1	3456.4
10°	4384.3	4376.8	4308.6	4226.5	4117.7	3994.0	3962.9	3861.5	3728.9	3581.5	3438.6
12.5°	4475.3	4460.4	4381.3	4283.4	4153.8	4033.1	4001.4	3899.0	3750.2	3581.5	3413.3
15°	4469.3	4459.0	4379.8	4272.5	4141.9	4036.1	4007.9	3905.0	3745.7	3566.7	3380.7
17.5°	4350.1	4354.6	4287.8	4182.0	4074.6	3994.0	3968.8	3873.8	3715.5	3537.0	3342.1
20°	4141.9	4162.7	4117.7	4024.2	3964.3	3909.4	3893.1	3812.5	3669.5	3494.0	3300.1
22.5°	3933.2	3952.5	3934.7	3855.5	3846.6	3814.0	3805.1	3747.2	3629.5	3467.3	3274.8
25°	3779.8	3797.7	3794.7	3725.9	3753.1	3751.7	3744.2	3715.5	3620.6	3467.3	3279.3
27.5°	3738.3	3744.2	3738.3	3675.5	3712.6	3742.8	3736.8	3731.9	3647.3	3510.3	3336.2
30°	3881.2	3872.3	3825.8	3699.2	3733.8	3775.4	3769.5	3772.4	3727.4	3623.5	3462.8
32.5°	4451.5	4411.0	4265.1	3909.4	3818.4	3840.7	3843.7	3893.1	3900.5	3797.7	3659.2
35°	5304.7	5260.2	5070.8	4472.3	4082.1	4004.9	4004.9	4079.1	4123.6	4047.9	3964.3
37.5°	6208.9	6159.4	6058.5	5252.8	4636.0	4289.3	4281.9	4333.8	4397.6	4415.9	4436.7
40°	7236.2	7184.3	7212.5	6128.3	5409.1	4781.9	4676.1	4639.0	4811.6	4926.4	5093.5
42.5°	8361.0	8336.7	8347.1	7103.7	6289.0	5519.4	5369.0	5176.6	5385.4	5589.1	5939.3
45°	9401.6	9422.4	9412.0	8147.8	7269.4	6418.6	6259.4	5886.9	6091.2	6440.9	7011.7
47.5°	10313.2	10226.7	10360.7	9288.4	8366.9	7425.7	7228.8	6730.2	6937.0	7368.8	8333.8
50°	11419.7	11407.8	11211.4	10810.8	9693.5	8436.6	8179.0	7601.2	7922.7	8523.2	10000.6
52.5°	12583.0	12366.9	12186.8	11994.4	11101.1	9473.4	9157.3	8469.3	9081.6	9836.4	12032.0
55°	12820.9	12724.5	12947.5	13271.0	12457.9	10550.1	10182.1	9557.9	10386.4	11338.1	14374.5
57.5°	13330.4	13328.9	13790.9	14367.1	13854.7	11692.2	11321.2	10873.1	11853.0	13057.8	16861.4
60°	13674.6	13771.1	14629.2	15747.5	15226.2	13011.8	12670.6	12390.6	13521.3	14980.4	19178.7
62.5°	13854.7	13985.7	15156.5	16307.5	17165.1	15208.4	14867.6	14464.0	15728.3	17089.4	20533.9
65°	13105.8	13363.0	15074.4	16791.7	18863.1	18769.2	18615.8	17907.0	18487.7	18755.8	20044.3
67.5°	11032.4	11296.0	13288.8	16340.1	20075.4	22203.8	22236.4	21025.6	20185.7	18898.7	16852.5
70°	7860.4	8067.2	9716.2	13699.8	19152.0	24447.8	24559.6	22462.4	19847.4	16760.0	11774.3
72.5°	3731.9	3858.5	5419.5	8916.4	15198.0	22400.1	22616.3	20627.9	16876.3	12408.4	6423.1
75°	1371.6	1410.1	1831.6	3793.2	8815.0	16519.1	16773.9	14787.0	11187.2	6177.7	2446.9
77.5°	822.0	847.3	1027.8	1601.1	3467.3	9442.2	9818.6	8041.9	4889.3	2299.5	1203.4
80°	574.7	592.5	737.0	996.2	1638.2	3598.3	3933.2	3282.3	1947.8	1455.2	875.5
82.5°	388.8	397.7	518.4	673.2	1088.6	1285.0	1386.4	1459.6	1313.7	1082.7	555.5
85°	254.7	263.6	351.7	443.7	692.5	664.3	679.1	859.1	959.1	735.5	308.1
87.5°	145.9	151.8	211.7	236.9	339.8	281.4	284.4	452.6	613.8	496.1	187.5
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°	3551.8	3551.8	3551.8	3551.8	3551.8	3551.8	3551.8	3551.8	3551.8	3551.8	3551.8
2.5°	3538.5	3519.2	3476.2	3448.9	3423.7	3417.8	3407.4	3405.9	3404.4	3404.4	3400.0
5°	3459.3	3426.7	3359.9	3322.3	3291.2	3288.2	3286.7	3294.1	3297.1	3300.1	3295.6
7.5°	3408.9	3364.4	3280.8	3227.4	3190.3	3180.9	3196.2	3230.3	3252.6	3261.5	3257.0
10°	3377.7	3322.3	3225.9	3167.5	3136.4	3131.9	3151.2	3191.7	3237.7	3255.6	3254.1
12.5°	3342.1	3279.3	3176.4	3115.6	3097.8	3106.7	3131.9	3169.0	3217.0	3245.2	3246.7
15°	3306.0	3233.3	3127.5	3074.0	3066.6	3078.5	3102.2	3130.4	3167.5	3196.2	3199.2
17.5°	3263.0	3186.8	3081.5	3026.1	3020.1	3026.1	3027.5	3042.4	3066.6	3093.3	3100.7
20°	3217.0	3139.3	3029.0	2974.1	2947.4	2923.7	2896.5	2899.4	2906.9	2934.1	2940.0
22.5°	3183.8	3106.7	2989.0	2912.8	2841.6	2769.8	2716.4	2709.0	2712.0	2734.2	2741.7
25°	3186.8	3105.2	2978.6	2847.5	2691.2	2576.4	2504.7	2492.9	2491.4	2507.7	2518.6
27.5°	3245.2	3163.1	3017.2	2780.2	2527.5	2357.3	2281.7	2272.8	2260.9	2265.3	2277.2
30°	3374.8	3298.6	3111.1	2712.0	2349.9	2143.2	2064.0	2055.1	2038.8	2031.4	2040.3
32.5°	3586.0	3523.6	3248.1	2646.2	2172.8	1959.7	1879.5	1860.2	1849.9	1841.0	1848.4
35°	3937.6	3910.9	3431.1	2575.0	2016.5	1818.2	1745.5	1715.8	1701.0	1717.3	1729.2
37.5°	4488.6	4503.5	3671.0	2463.2	1895.9	1724.7	1663.4	1629.3	1607.0	1620.4	1633.7
40°	5269.1	5279.5	3936.1	2305.4	1791.5	1669.3	1604.0	1572.9	1541.2	1517.5	1516.0
42.5°	6293.5	6188.1	4196.8	2134.3	1670.8	1635.2	1562.5	1523.4	1475.9	1410.1	1396.8
45°	7508.7	7138.3	4394.7	1937.4	1535.3	1593.6	1516.0	1462.6	1387.9	1316.7	1309.2
47.5°	8909.0	8158.2	4491.6	1733.6	1408.7	1532.3	1459.6	1374.5	1280.6	1244.9	1240.5
50°	10618.4	9369.0	4537.6	1535.3	1298.9	1452.2	1377.5	1277.6	1198.9	1191.5	1187.1
52.5°	12565.2	10825.6	4552.9	1373.1	1207.8	1347.8	1310.7	1213.8	1151.0	1157.4	1157.4
55°	14602.5	12329.8	4350.1	1255.3	1124.3	1240.5	1265.7	1188.6	1136.1	1160.4	1169.3
57.5°	16472.7	13662.7	3712.6	1164.8	1045.6	1158.9	1249.4	1212.3	1176.7	1273.1	1279.1
60°	17908.5	14450.2	2772.8	1082.7	987.3	1130.2	1292.9	1303.3	1312.2	1542.7	1574.4
62.5°	18209.2	14188.5	1906.2	1018.9	960.5	1154.4	1371.6	1373.1	1362.7	1523.4	1542.7
65°	16828.8	12530.6	1386.4	982.8	938.3	1197.5	1438.8	1407.2	1338.9	1461.1	1425.0
67.5°	13364.5	9440.7	1154.4	956.1	905.6	1194.5	1510.1	1438.8	1325.6	1431.4	1373.1
70°	8675.1	5708.4	1027.8	933.8	866.6	1137.6	1551.6	1435.9	1286.5	1331.5	1262.8
72.5°	4232.4	2552.7	942.7	901.2	826.5	1059.0	1550.1	1408.7	1246.4	1243.5	1206.4
75°	1656.0	1169.3	865.1	851.7	758.2	969.4	1508.6	1370.1	1198.9	1151.0	1137.6
77.5°	969.4	833.9	767.1	779.0	676.1	879.9	1447.7	1303.3	1133.2	1076.8	1061.9
80°	705.8	624.2	653.9	673.2	577.7	790.9	1365.6	1221.2	1060.5	1088.6	1067.9
82.5°	452.6	402.1	530.2	549.5	481.3	699.9	1276.1	1134.6	957.6	869.5	848.8
85°	231.0	254.7	394.7	418.4	371.0	574.7	1167.8	1020.4	841.3	723.6	735.5
87.5°	129.6	174.1	251.8	281.4	262.1	442.2	947.2	841.3	686.5	558.4	491.6
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)