

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: P302793

Luminaire Tested: **GLNA-AF-06-LED-E1-T4W-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302793  
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-7030  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34080.1 lumens  
Efficiency: N/A  
Efficacy: 102.3 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

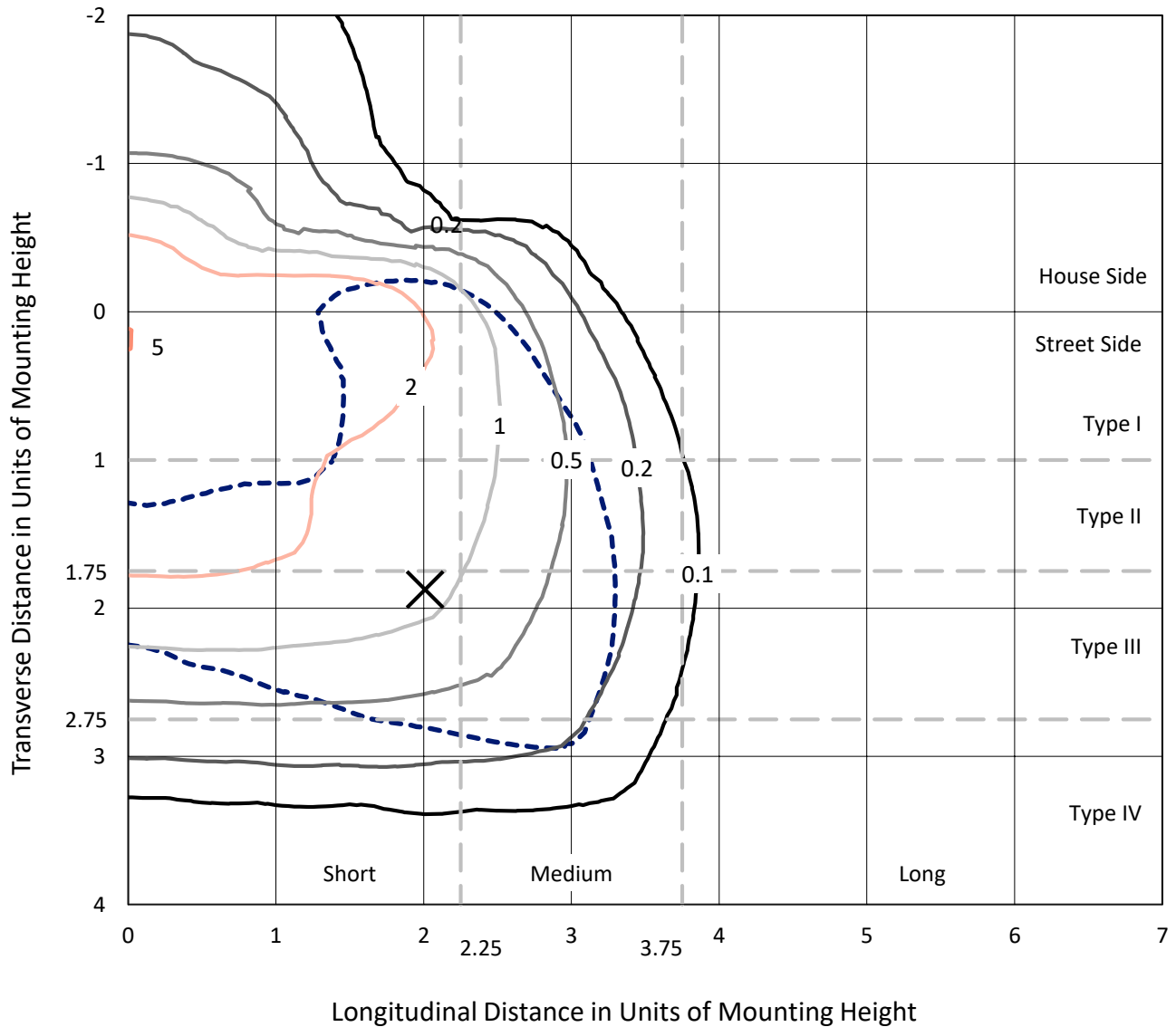
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

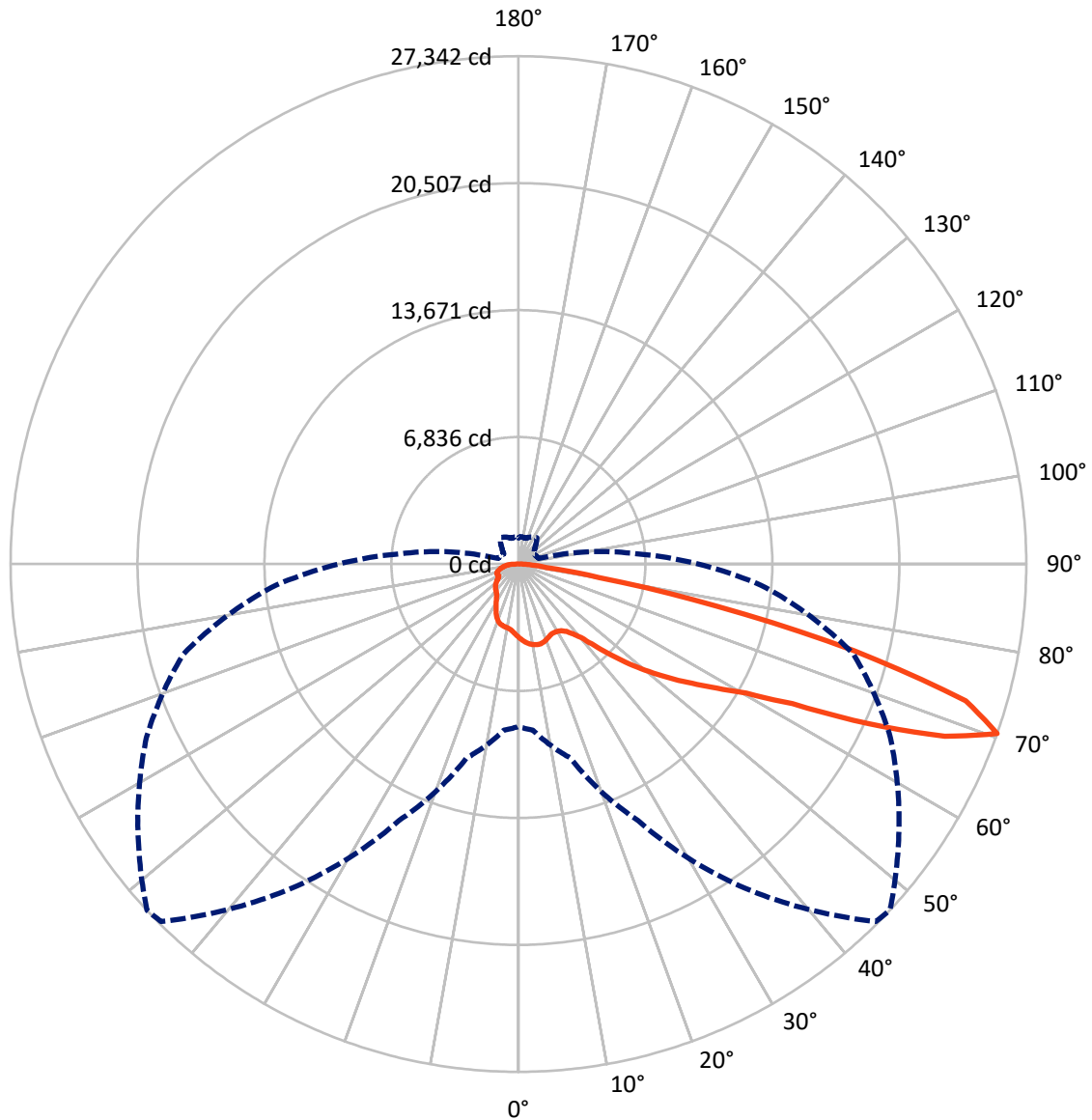
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 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	7109.8	0.0	7109.8
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	26970.3	0.0	26970.3
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	34080.1	0.0	34080.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.9	1.1
10°-20°	1111.6	3.3
20°-30°	1641.5	4.8
30°-40°	2385.9	7.0
40°-50°	4293.7	12.6
50°-60°	7438.5	21.8
60°-70°	10616.9	31.2
70°-80°	5450.1	16.0
80°-90°	763.0	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°	34080.1	100.0
0°-180°	34080.1	100.0

**Coefficient of Utilization**



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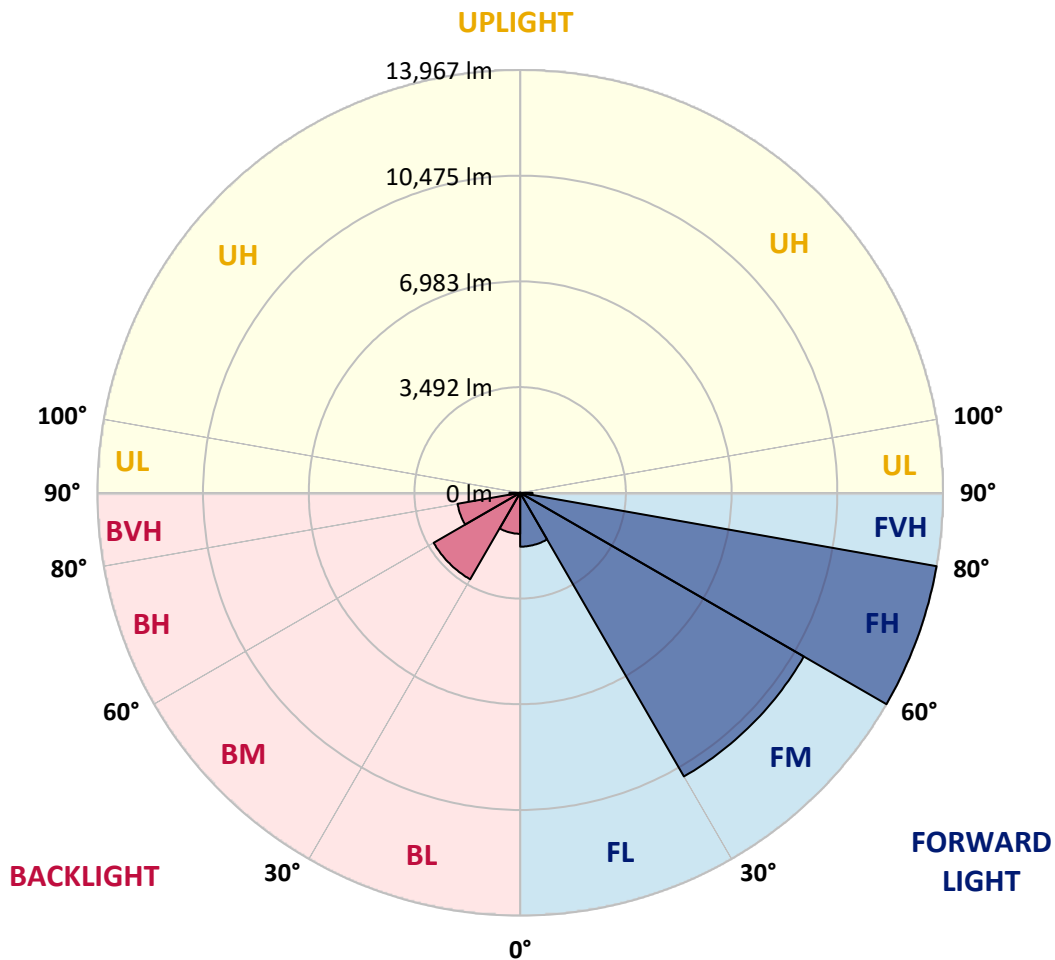
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1778.2	5.2			
FM	(30°-60°)	10818.0	31.7			
FH	(60°-80°)	13966.9	41.0			G5
FVH	(80°-90°)	407.2	1.2			G3/500
BL	(0°-30°)	1353.7	4.0	B3/2500		
BM	(30°-60°)	3300.1	9.7	B3/5000		
BH	(60°-80°)	2100.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	355.9	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°	3954.3	3954.3	3954.3	3954.3	3954.3	3954.3	3954.3	3954.3	3954.3	3954.3	3954.3
2.5°	4186.6	4178.4	4175.1	4168.5	4160.2	4118.4	4110.1	4080.4	4039.1	3995.6	3951.0
5°	4462.0	4460.3	4441.6	4408.5	4355.7	4264.3	4242.8	4170.1	4072.1	3977.4	3883.2
7.5°	4703.7	4688.8	4654.1	4587.5	4495.0	4370.6	4340.8	4239.5	4105.1	3975.7	3848.0
10°	4881.0	4872.7	4796.8	4705.4	4584.2	4446.5	4411.9	4299.0	4151.4	3987.3	3828.2
12.5°	4982.3	4965.8	4877.7	4768.7	4624.4	4490.0	4454.8	4340.8	4175.1	3987.3	3800.1
15°	4975.7	4964.2	4876.1	4756.6	4611.2	4493.3	4462.0	4347.4	4170.1	3970.8	3763.7
17.5°	4843.0	4848.0	4773.6	4655.8	4536.3	4446.5	4418.5	4312.7	4136.5	3937.7	3720.8
20°	4611.2	4634.3	4584.2	4480.1	4413.5	4352.4	4334.2	4244.5	4085.3	3889.8	3674.0
22.5°	4378.8	4400.3	4380.5	4292.4	4282.4	4246.1	4236.2	4171.8	4040.7	3860.1	3645.9
25°	4208.1	4227.9	4224.6	4148.1	4178.4	4176.7	4168.5	4136.5	4030.8	3860.1	3650.8
27.5°	4161.9	4168.5	4161.9	4091.9	4133.2	4166.8	4160.2	4154.7	4060.5	3908.0	3714.2
30°	4321.0	4311.1	4259.3	4118.4	4156.9	4203.2	4196.5	4199.8	4149.7	4034.1	3855.1
32.5°	4955.9	4910.7	4748.3	4352.4	4251.1	4275.8	4279.1	4334.2	4342.5	4227.9	4073.7
35°	5905.8	5856.2	5645.3	4979.0	4544.6	4458.7	4458.7	4541.3	4590.8	4506.6	4413.5
37.5°	6912.4	6857.3	6745.0	5848.0	5161.3	4775.3	4767.0	4824.8	4895.9	4916.3	4939.4
40°	8056.1	7998.3	8029.7	6822.6	6022.0	5323.7	5205.9	5164.6	5356.8	5484.5	5670.6
42.5°	9308.3	9281.3	9292.9	7908.5	7001.6	6144.8	5977.4	5763.2	5995.5	6222.4	6612.3
45°	10466.9	10490.0	10478.4	9070.9	8093.0	7145.9	6968.5	6553.9	6781.3	7170.6	7806.1
47.5°	11481.7	11385.4	11534.6	10340.8	9314.9	8267.0	8047.8	7492.8	7722.9	8203.7	9278.0
50°	12713.5	12700.3	12481.7	12035.7	10791.7	9392.5	9105.6	8462.5	8820.4	9488.9	11133.7
52.5°	14008.7	13768.0	13567.6	13353.4	12358.9	10546.7	10194.8	9428.9	10110.6	10950.9	13395.2
55°	14273.5	14166.2	14414.5	14774.6	13869.4	11745.5	11335.8	10640.9	11563.2	12622.7	16003.1
57.5°	14840.7	14839.1	15353.4	15994.9	15424.4	13016.9	12604.0	12105.1	13195.9	14537.3	18771.8
60°	15224.0	15331.3	16286.7	17531.8	16951.4	14486.1	14106.1	13794.5	15053.3	16677.7	21351.7
62.5°	15424.4	15570.3	16873.7	18155.1	19109.9	16931.6	16552.2	16102.8	17510.3	19025.7	22860.5
65°	14590.7	14877.1	16782.3	18694.2	21000.3	20895.7	20725.0	19935.9	20582.4	20880.9	22315.3
67.5°	12282.4	12575.9	14794.5	18191.5	22350.0	24719.5	24755.8	23407.8	22472.8	21040.0	18761.9
70°	8751.0	8981.2	10817.1	15252.1	21321.9	27217.8	27342.2	25007.5	22096.1	18659.0	13108.4
72.5°	4154.7	4295.7	6033.5	9926.7	16920.0	24938.1	25178.7	22965.1	18788.4	13814.3	7150.8
75°	1527.0	1569.9	2039.1	4223.0	9813.8	18390.8	18674.4	16462.4	12454.7	6877.7	2724.1
77.5°	915.2	943.3	1144.3	1782.5	3860.1	10512.0	10931.1	8953.1	5443.2	2560.0	1339.7
80°	639.9	659.7	820.5	1109.0	1823.8	4006.0	4378.8	3654.1	2168.5	1620.0	974.7
82.5°	432.8	442.7	577.1	749.4	1212.0	1430.6	1543.5	1625.0	1462.5	1205.4	618.4
85°	283.6	293.5	391.5	493.9	770.9	739.5	756.0	956.5	1067.7	818.8	343.1
87.5°	162.4	169.1	235.7	263.8	378.3	313.3	316.6	503.8	683.4	552.3	208.7
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°	3954.3	3954.3	3954.3	3954.3	3954.3	3954.3	3954.3	3954.3	3954.3	3954.3	3954.3
2.5°	3939.4	3917.9	3870.0	3839.7	3811.6	3805.0	3793.5	3791.8	3790.2	3790.2	3785.2
5°	3851.3	3814.9	3740.6	3698.8	3664.1	3660.8	3659.1	3667.4	3670.7	3674.0	3669.0
7.5°	3795.1	3745.6	3652.5	3593.0	3551.7	3541.3	3558.3	3596.3	3621.1	3631.0	3626.1
10°	3760.4	3698.8	3591.4	3526.4	3491.7	3486.8	3508.2	3553.4	3604.6	3624.4	3622.8
12.5°	3720.8	3650.8	3536.3	3468.6	3448.8	3458.7	3486.8	3528.0	3581.5	3612.9	3614.5
15°	3680.6	3599.6	3481.8	3422.3	3414.1	3427.3	3453.7	3485.1	3526.4	3558.3	3561.6
17.5°	3632.7	3547.9	3430.6	3368.9	3362.3	3368.9	3370.6	3387.1	3414.1	3443.8	3452.1
20°	3581.5	3495.0	3372.2	3311.1	3281.4	3254.9	3224.6	3227.9	3236.2	3266.5	3273.1
22.5°	3544.6	3458.7	3327.6	3242.8	3163.5	3083.7	3024.2	3015.9	3019.2	3044.0	3052.3
25°	3547.9	3457.0	3316.0	3170.1	2996.1	2868.4	2788.5	2775.3	2773.7	2791.8	2803.9
27.5°	3612.9	3521.4	3359.0	3095.2	2813.8	2624.4	2540.2	2530.3	2517.0	2522.0	2535.2
30°	3757.1	3672.3	3463.6	3019.2	2616.2	2386.0	2297.9	2288.0	2269.8	2261.5	2271.5
32.5°	3992.3	3922.9	3616.2	2946.0	2419.0	2181.7	2092.5	2071.0	2059.5	2049.5	2057.8
35°	4383.8	4354.0	3819.9	2866.7	2245.0	2024.2	1943.3	1910.2	1893.7	1911.9	1925.1
37.5°	4997.2	5013.7	4087.0	2742.3	2110.7	1920.1	1851.9	1813.9	1789.1	1803.9	1818.8
40°	5866.1	5877.7	4382.1	2566.6	1994.5	1858.5	1785.8	1751.1	1715.8	1689.4	1687.8
42.5°	7006.5	6889.2	4672.3	2376.1	1860.1	1820.5	1739.5	1696.0	1643.2	1569.9	1555.1
45°	8359.5	7947.1	4892.6	2156.9	1709.2	1774.2	1687.8	1628.3	1545.1	1465.8	1457.6
47.5°	9918.4	9082.5	5000.5	1930.0	1568.3	1705.9	1625.0	1530.3	1425.6	1386.0	1381.0
50°	11821.5	10430.5	5051.7	1709.2	1446.0	1616.7	1533.6	1422.3	1334.8	1326.5	1321.6
52.5°	13988.9	12052.2	5068.8	1528.6	1344.7	1500.5	1459.2	1351.3	1281.4	1288.5	1288.5
55°	16257.0	13726.7	4843.0	1397.6	1251.6	1381.0	1409.1	1323.2	1264.9	1291.8	1301.7
57.5°	18339.0	15210.8	4133.2	1296.8	1164.1	1290.2	1391.0	1349.7	1310.0	1417.4	1424.0
60°	19937.6	16087.4	3087.0	1205.4	1099.1	1258.2	1439.4	1451.0	1460.9	1717.5	1752.7
62.5°	20272.4	15796.1	2122.2	1134.4	1069.4	1285.2	1527.0	1528.6	1517.1	1696.0	1717.5
65°	18735.5	13950.3	1543.5	1094.2	1044.6	1333.1	1601.9	1566.6	1490.6	1626.6	1586.4
67.5°	14878.7	10510.4	1285.2	1064.4	1008.3	1329.8	1681.2	1601.9	1475.8	1593.6	1528.6
70°	9657.9	6355.1	1144.3	1039.6	964.7	1266.5	1727.4	1598.6	1432.3	1482.4	1405.8
72.5°	4712.0	2841.9	1049.5	1003.3	920.1	1179.0	1725.8	1568.3	1387.7	1384.3	1343.0
75°	1843.6	1301.7	963.1	948.2	844.2	1079.3	1679.5	1525.3	1334.8	1281.4	1266.5
77.5°	1079.3	928.4	854.1	867.3	752.7	979.6	1611.8	1451.0	1261.6	1198.8	1182.3
80°	785.8	694.9	728.0	749.4	643.2	880.5	1520.4	1359.6	1180.6	1212.0	1188.9
82.5°	503.8	447.7	590.3	611.8	535.8	779.2	1420.7	1263.2	1066.1	968.1	944.9
85°	257.2	283.6	439.4	465.9	413.0	639.9	1300.1	1136.0	936.7	805.6	818.8
87.5°	144.3	193.8	280.3	313.3	291.8	492.3	1054.5	936.7	764.3	621.7	547.4
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)