

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: P269599

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T4W-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33252.6 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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

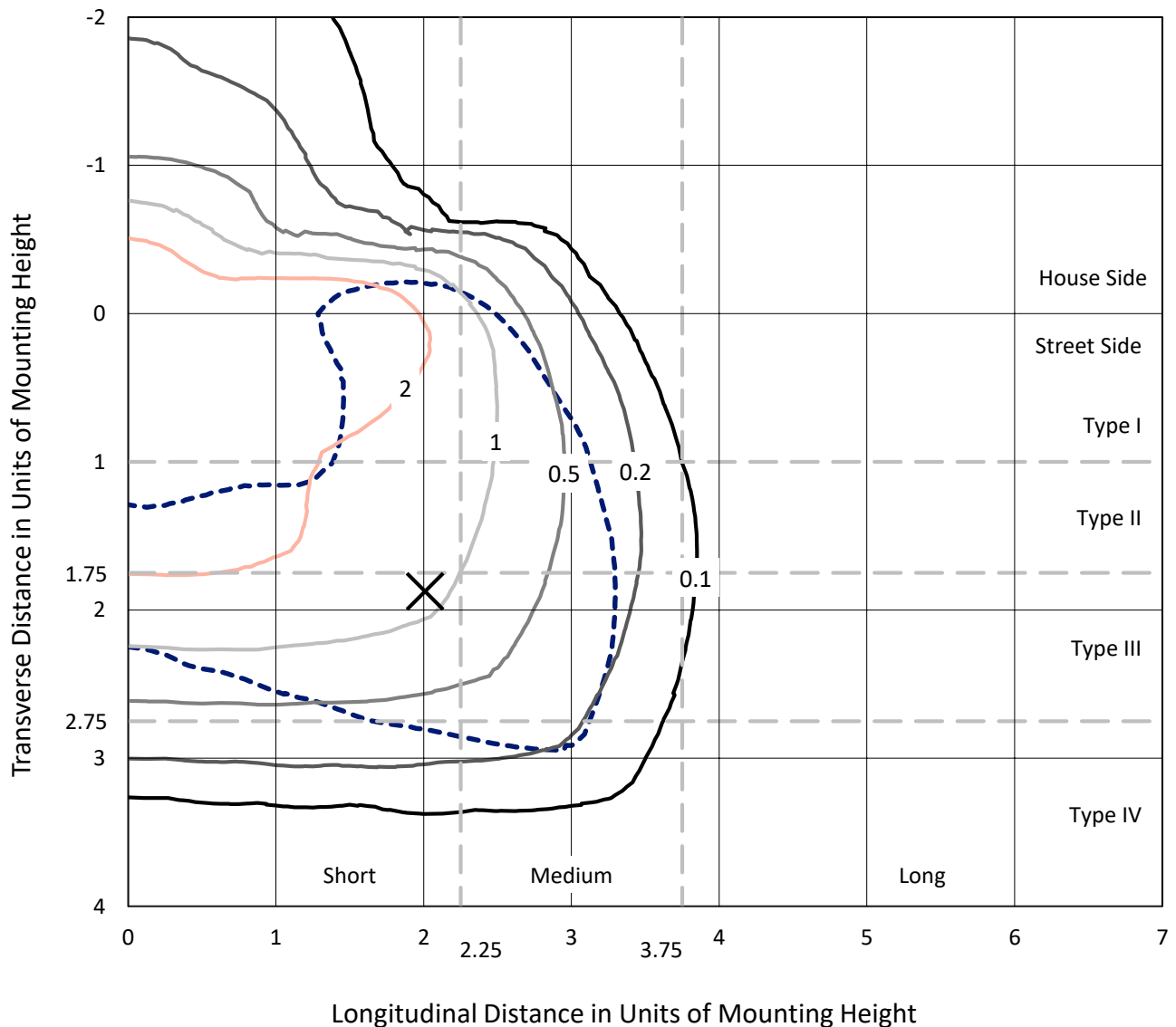


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

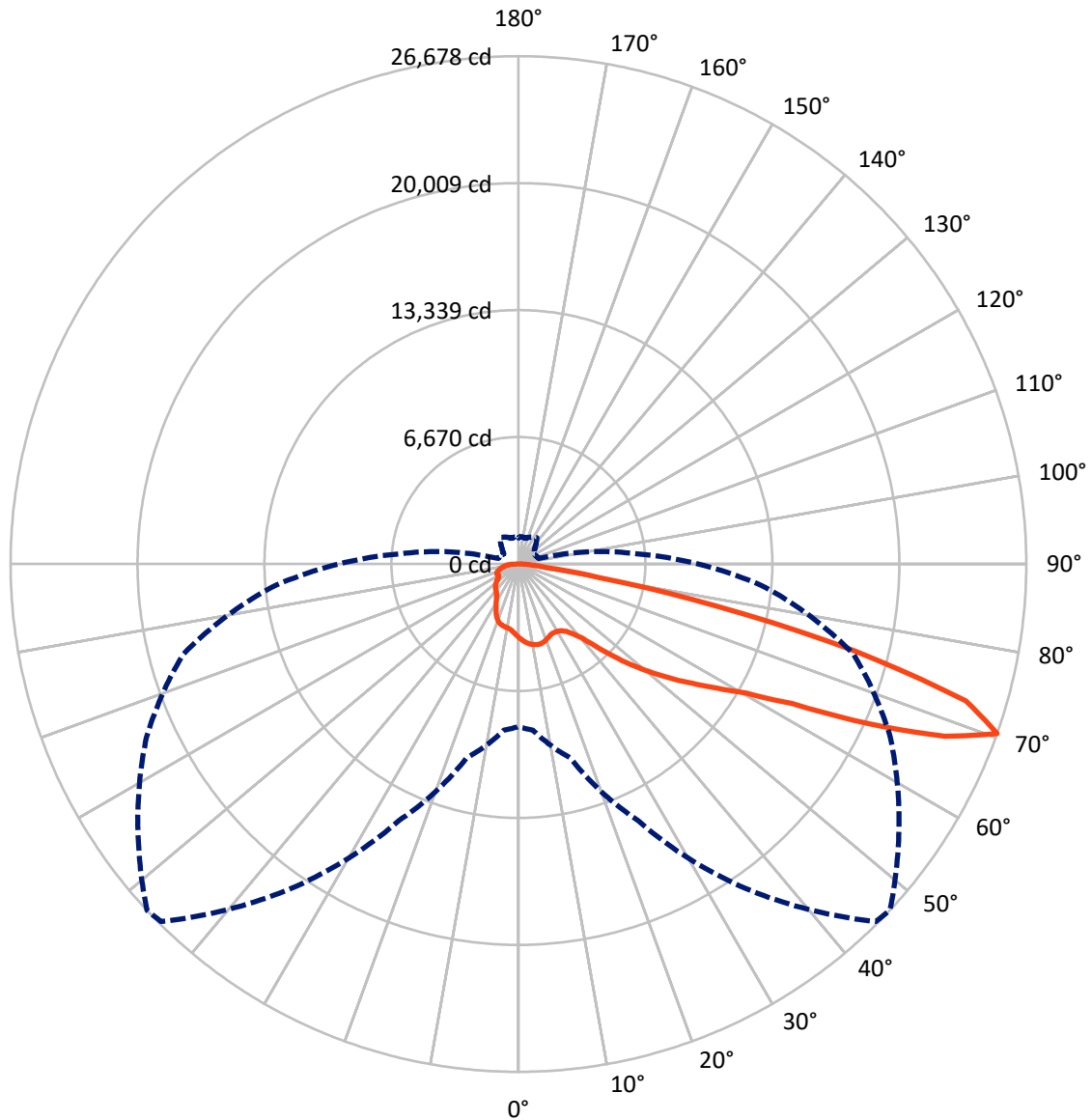


Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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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
House Side	Lumens	6937.1	0.0	6937.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	26315.4	0.0	26315.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	33252.6	0.0	33252.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.7	1.1
10°-20°	1084.6	3.3
20°-30°	1601.6	4.8
30°-40°	2328.0	7.0
40°-50°	4189.5	12.6
50°-60°	7257.9	21.8
60°-70°	10359.1	31.2
70°-80°	5317.8	16.0
80°-90°	744.5	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°	33252.6	100.0
0°-180°	33252.6	100.0



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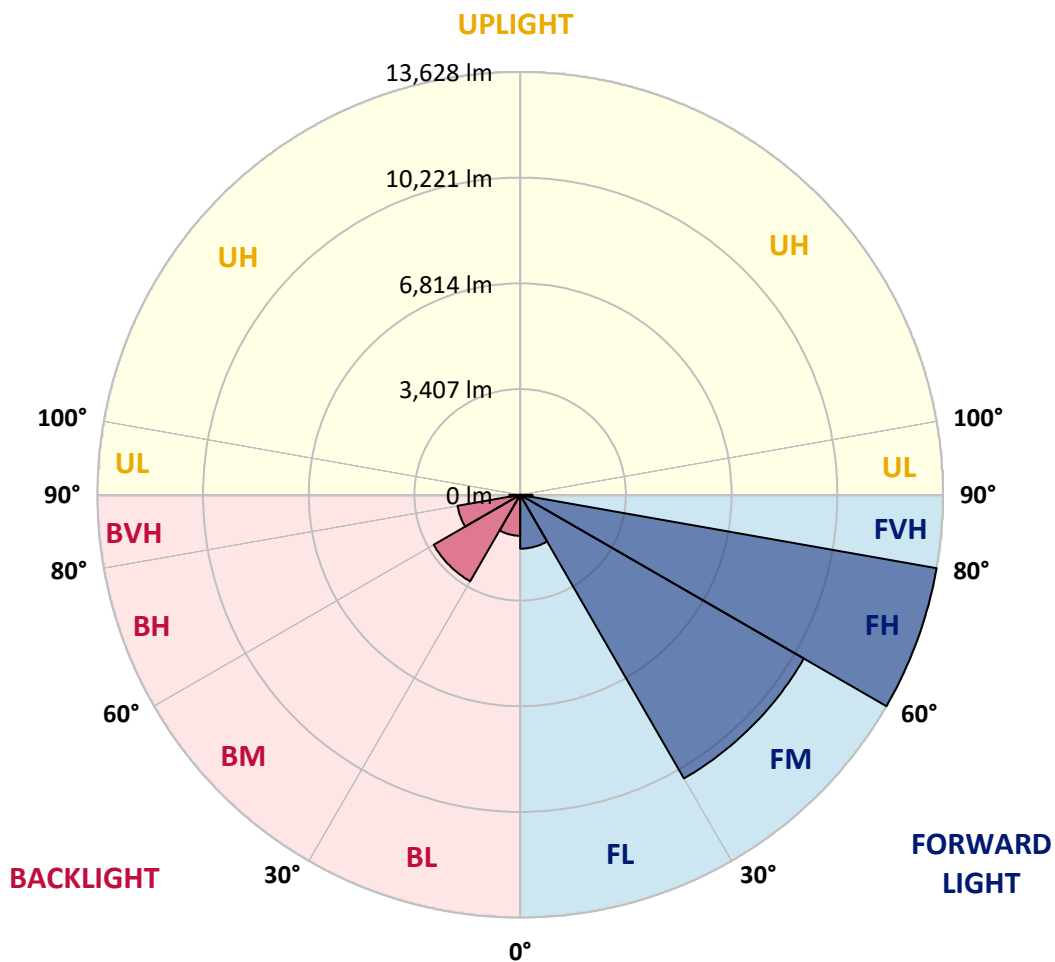
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1735.0	5.2			
FM	(30°-60°)	10555.3	31.7			
FH	(60°-80°)	13627.8	41.0			G5
FVH	(80°-90°)	397.3	1.2			G3/500
BL	(0°-30°)	1320.9	4.0	B3/2500		
BM	(30°-60°)	3220.0	9.7	B3/5000		
BH	(60°-80°)	2049.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	347.2	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°	3858.3	3858.3	3858.3	3858.3	3858.3	3858.3	3858.3	3858.3	3858.3	3858.3	3858.3
2.5°	4084.9	4076.8	4073.5	4067.0	4058.9	4018.5	4010.5	3981.3	3940.9	3898.7	3855.0
5°	4353.4	4351.7	4334.0	4301.7	4249.8	4160.9	4139.7	4068.7	3973.3	3880.9	3788.8
7.5°	4589.6	4575.0	4541.0	4476.3	4385.7	4264.4	4235.2	4136.5	4005.5	3879.4	3754.7
10°	4762.6	4754.5	4680.2	4591.1	4473.1	4338.9	4304.9	4194.8	4050.8	3890.6	3735.4
12.5°	4861.4	4845.2	4759.4	4652.6	4511.8	4380.9	4346.9	4235.2	4073.5	3890.6	3707.8
15°	4854.9	4843.5	4757.9	4641.4	4499.0	4384.1	4353.4	4241.7	4068.7	3874.5	3672.4
17.5°	4725.4	4730.4	4657.5	4542.6	4426.2	4338.9	4311.3	4207.8	4036.3	3842.2	3630.2
20°	4499.0	4521.6	4473.1	4371.2	4306.5	4246.6	4228.9	4141.5	3986.0	3795.2	3585.0
22.5°	4272.5	4293.4	4274.0	4188.3	4178.6	4143.1	4133.3	4070.3	3942.4	3766.1	3557.5
25°	4105.9	4125.2	4122.1	4047.7	4076.8	4075.2	4067.0	4036.3	3932.8	3766.1	3562.3
27.5°	4060.6	4067.0	4060.6	3992.5	4033.0	4065.4	4058.9	4054.1	3961.9	3813.0	3623.8
30°	4215.8	4206.1	4156.0	4018.5	4055.7	4101.0	4094.6	4097.8	4049.2	3936.1	3761.3
32.5°	4835.4	4791.7	4633.3	4246.6	4148.0	4172.2	4175.4	4228.9	4236.9	4125.2	3974.8
35°	5762.4	5713.8	5508.4	4858.2	4434.3	4350.1	4350.1	4431.0	4479.6	4397.1	4306.5
37.5°	6744.5	6691.0	6581.1	5705.9	5036.1	4659.1	4651.1	4707.7	4777.2	4796.6	4819.2
40°	7860.7	7804.0	7834.7	6657.0	5875.6	5194.5	5079.7	5039.3	5227.0	5351.6	5532.8
42.5°	9082.0	9056.2	9067.5	7716.7	6831.8	5995.4	5831.9	5623.3	5849.9	6071.5	6451.5
45°	10212.9	10235.5	10224.1	8850.7	7896.2	6972.6	6799.5	6394.9	6616.6	6996.8	7616.4
47.5°	11202.9	11109.1	11254.7	10089.9	9088.5	8066.2	7852.5	7310.6	7535.5	8004.6	9052.8
50°	12405.0	12391.9	12178.4	11743.3	10529.9	9164.6	8884.6	8257.0	8606.4	9258.4	10863.3
52.5°	13668.4	13433.9	13238.1	13029.3	12058.7	10290.5	9947.6	9200.1	9865.0	10685.2	13069.8
55°	13927.2	13822.1	14064.8	14415.8	13532.4	11460.1	11060.7	10382.7	11282.3	12315.9	15614.5
57.5°	14480.5	14478.9	14980.3	15606.4	15049.9	12701.0	12298.2	11811.3	12875.6	14184.4	18316.3
60°	14854.3	14959.4	15891.1	17106.2	16540.0	14134.3	13763.8	13459.7	14687.6	16272.9	20833.4
62.5°	15049.9	15192.2	16463.9	17714.3	18646.2	16520.5	16150.0	15711.5	17085.0	18563.7	22305.5
65°	14236.2	14516.2	16374.8	18240.2	20490.3	20388.6	20221.8	19451.9	20082.8	20374.0	21773.3
67.5°	11984.3	12270.7	14435.3	17750.0	21807.3	24119.0	24154.6	22839.3	21927.0	20529.2	18306.5
70°	8538.5	8763.3	10554.1	14881.7	20804.2	26557.0	26678.4	24400.5	21559.9	18206.2	12790.0
72.5°	4054.1	4191.6	5887.0	9685.4	16509.1	24332.6	24567.1	22407.5	18332.3	13479.1	6977.3
75°	1490.0	1532.0	1989.8	4120.4	9575.5	17944.2	18220.7	16062.7	12152.5	6710.3	2657.9
77.5°	892.9	920.6	1116.2	1739.1	3766.1	10256.6	10665.8	8735.8	5311.0	2497.7	1307.2
80°	624.4	643.8	800.7	1082.3	1779.5	3908.4	4272.5	3565.6	2116.0	1580.6	951.2
82.5°	422.3	431.9	563.0	731.2	1182.6	1396.1	1506.1	1585.4	1426.9	1176.2	603.4
85°	276.7	286.3	381.8	482.1	752.2	721.5	737.7	933.5	1041.9	799.1	334.9
87.5°	158.6	165.0	229.7	257.3	368.8	305.8	308.9	491.8	666.5	538.8	203.8
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°	3858.3	3858.3	3858.3	3858.3	3858.3	3858.3	3858.3	3858.3	3858.3	3858.3	3858.3
2.5°	3843.8	3822.7	3775.8	3746.7	3719.3	3712.8	3701.5	3699.8	3698.2	3698.2	3693.3
5°	3758.0	3722.4	3649.6	3609.2	3575.3	3572.0	3570.4	3578.5	3581.7	3585.0	3580.0
7.5°	3703.1	3654.6	3563.8	3505.6	3465.2	3455.5	3471.7	3508.9	3533.2	3542.8	3538.1
10°	3669.0	3609.2	3504.1	3441.0	3407.0	3402.2	3423.1	3466.9	3517.0	3536.4	3534.8
12.5°	3630.2	3562.3	3450.7	3384.4	3365.0	3374.7	3402.2	3442.6	3494.3	3525.0	3526.7
15°	3591.5	3512.2	3397.3	3339.0	3330.9	3343.9	3369.8	3400.5	3441.0	3471.7	3475.0
17.5°	3544.5	3462.0	3347.2	3287.3	3280.8	3287.3	3288.9	3305.0	3330.9	3360.1	3368.1
20°	3494.3	3410.2	3290.5	3230.7	3201.5	3175.7	3146.6	3149.7	3157.8	3186.9	3193.5
22.5°	3458.7	3374.7	3246.8	3164.3	3086.7	3009.1	2950.8	2942.7	2945.9	2970.2	2978.3
25°	3462.0	3373.0	3235.4	3093.1	2923.3	2798.7	2721.1	2708.1	2706.6	2724.3	2735.6
27.5°	3525.0	3436.0	3277.6	3020.3	2745.3	2560.9	2478.5	2468.7	2455.7	2460.5	2473.6
30°	3665.9	3583.2	3379.5	2945.9	2552.9	2328.0	2242.2	2232.5	2214.7	2206.5	2216.3
32.5°	3895.5	3827.6	3528.4	2874.8	2360.2	2129.0	2041.6	2020.6	2009.2	1999.5	2007.6
35°	4277.3	4248.3	3727.2	2797.1	2190.4	1975.3	1896.1	1863.7	1847.5	1865.3	1878.1
37.5°	4875.9	4892.1	3987.8	2675.7	2059.5	1873.3	1807.0	1769.8	1745.5	1760.0	1774.7
40°	5723.6	5734.9	4275.8	2504.3	1946.2	1813.5	1742.4	1708.3	1674.4	1648.5	1646.9
42.5°	6836.6	6721.7	4558.8	2318.3	1815.1	1776.3	1697.0	1654.9	1603.1	1532.0	1517.4
45°	8156.7	7753.9	4774.0	2104.6	1668.0	1731.0	1646.9	1588.7	1507.7	1430.1	1421.9
47.5°	9677.4	8862.0	4879.1	1883.0	1530.4	1664.6	1585.4	1493.3	1391.2	1352.5	1347.5
50°	11534.5	10177.3	4929.3	1668.0	1410.7	1577.3	1496.4	1388.1	1302.4	1294.2	1289.3
52.5°	13648.9	11759.4	4945.4	1491.5	1312.1	1464.1	1423.6	1318.4	1250.5	1257.0	1257.0
55°	15862.0	13393.4	4725.4	1363.7	1221.3	1347.5	1375.0	1291.0	1234.4	1260.2	1269.9
57.5°	17894.0	14841.3	4033.0	1265.2	1135.6	1258.6	1357.2	1316.8	1278.0	1383.2	1389.7
60°	19453.4	15697.1	3012.2	1176.2	1072.5	1227.9	1404.2	1415.5	1425.3	1676.0	1710.0
62.5°	19780.3	15412.3	2070.8	1106.5	1043.4	1253.8	1490.0	1491.5	1480.2	1654.9	1676.0
65°	18280.6	13611.7	1506.1	1067.7	1019.1	1300.7	1562.7	1528.7	1454.4	1587.0	1548.1
67.5°	14517.7	10255.0	1253.8	1038.6	983.6	1297.4	1640.5	1562.7	1439.9	1554.6	1491.5
70°	9423.4	6200.8	1116.2	1014.4	941.6	1236.0	1685.7	1559.5	1397.8	1446.4	1371.8
72.5°	4597.6	2772.8	1024.1	978.8	897.9	1150.2	1684.1	1530.4	1354.0	1350.8	1310.4
75°	1798.9	1269.9	939.8	925.3	823.4	1053.2	1638.8	1488.3	1302.4	1250.5	1236.0
77.5°	1053.2	905.9	833.2	846.1	734.5	956.1	1572.5	1415.5	1231.0	1169.7	1153.5
80°	766.9	677.9	710.2	731.2	627.6	859.0	1483.6	1326.5	1151.8	1182.6	1159.9
82.5°	491.8	436.8	576.0	597.0	522.5	760.3	1386.4	1232.7	1040.1	944.7	922.1
85°	250.7	276.7	428.8	454.6	402.8	624.4	1268.2	1108.1	914.0	786.2	799.1
87.5°	140.8	189.3	273.4	305.8	284.8	480.5	1028.9	914.0	745.9	606.6	533.9
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)