

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: P269515

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269515  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-T4FT-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 29731 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 295  
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

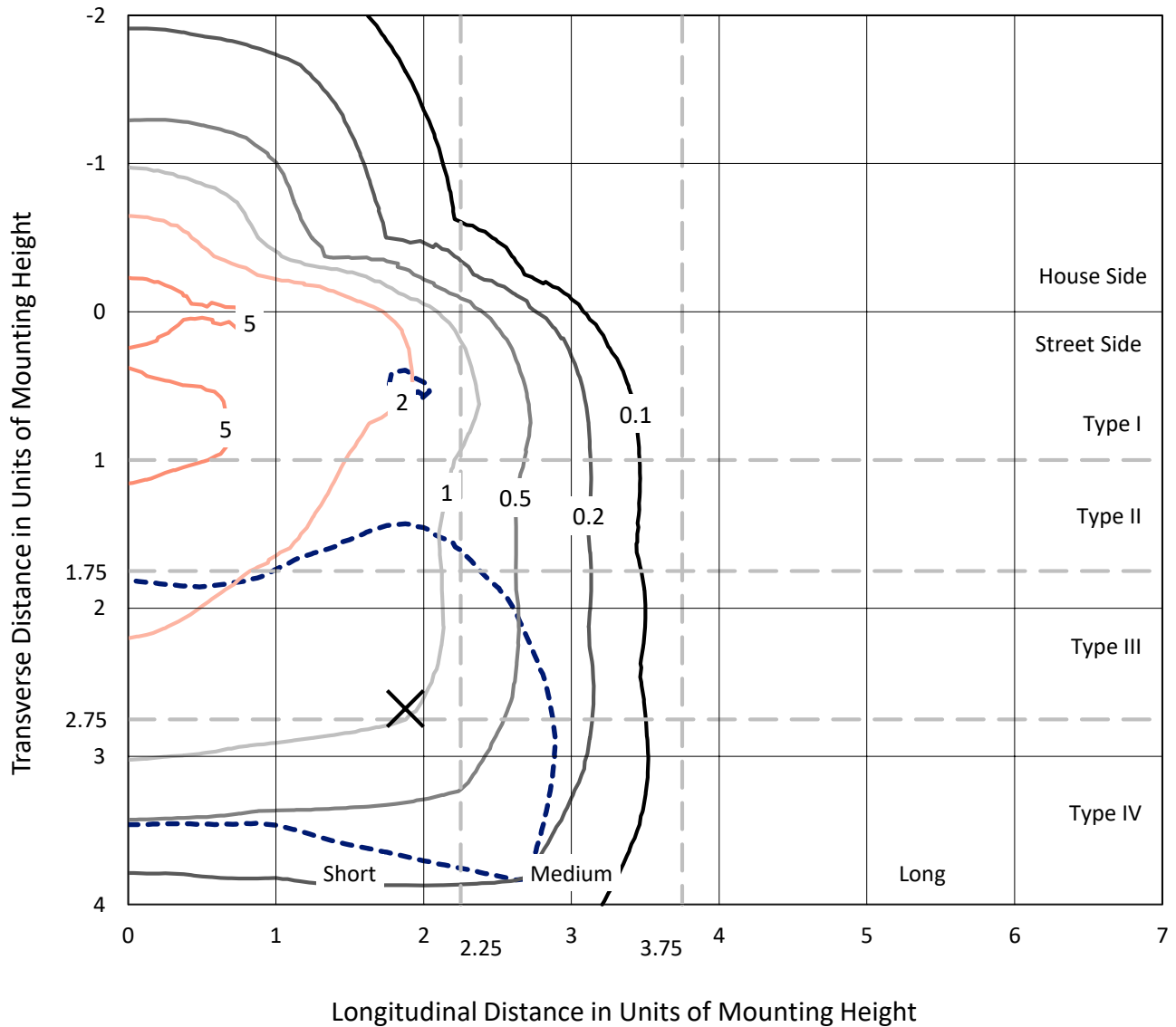


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

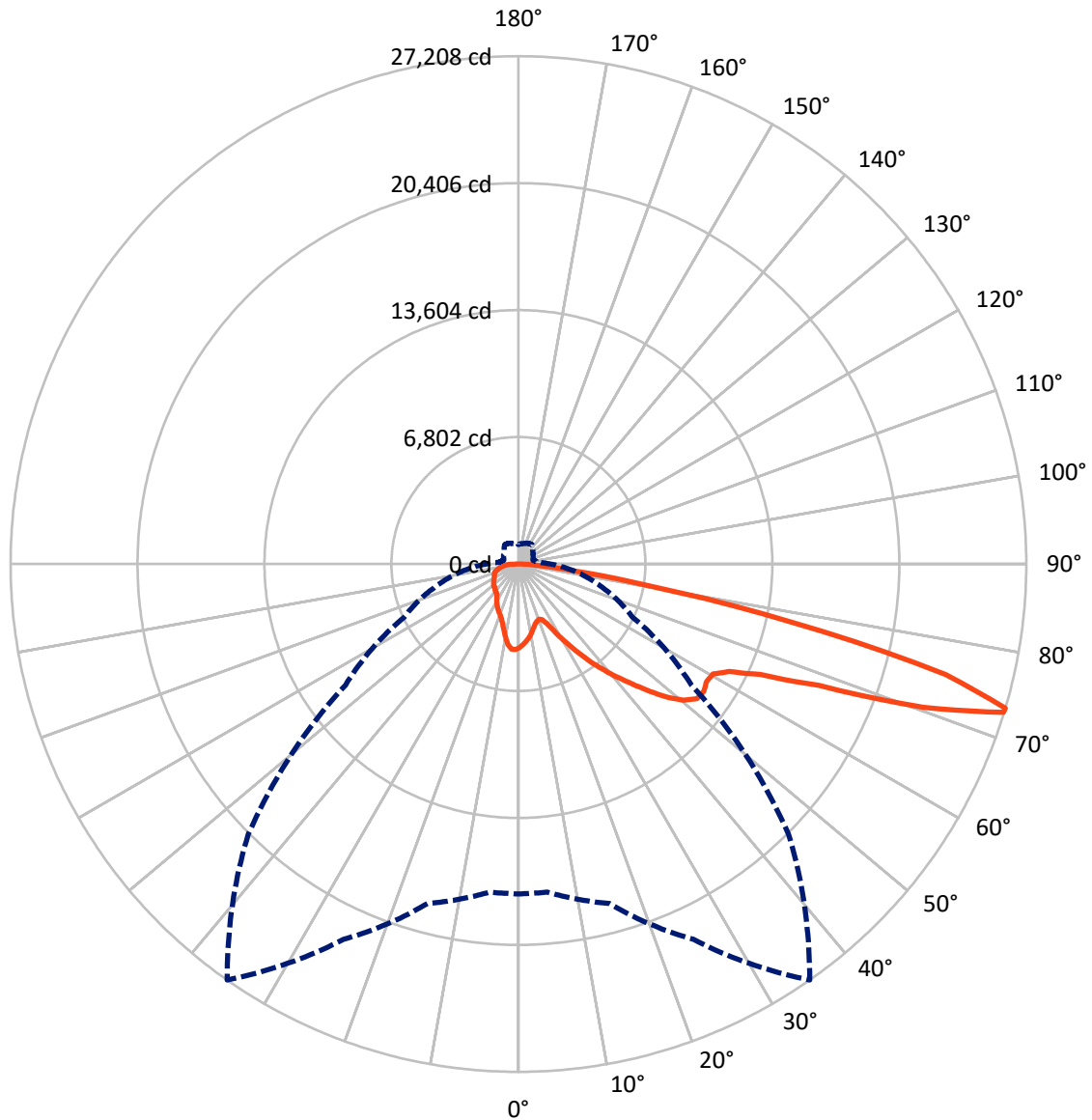


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5670.5	0.0	5670.5
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	24060.5	0.0	24060.5
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	29731.0	0.0	29731.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.2	1.4
10°-20°	1013.9	3.4
20°-30°	1639.1	5.5
30°-40°	2748.6	9.2
40°-50°	4236.8	14.3
50°-60°	5684.1	19.1
60°-70°	7572.4	25.5
70°-80°	5775.4	19.4
80°-90°	654.6	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°	29731.0	100.0
0°-180°	29731.0	100.0



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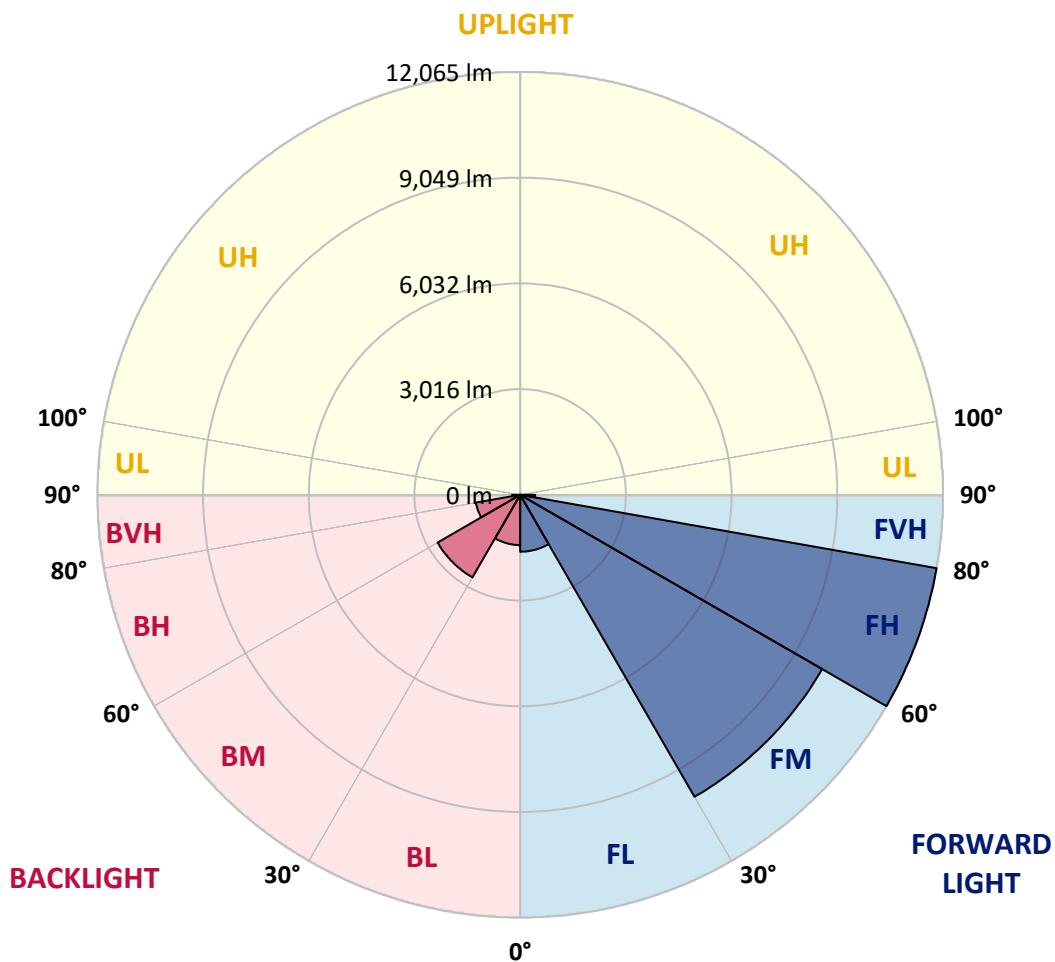
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1624.3	5.5			
FM	(30°-60°)	9948.2	33.5			
FH	(60°-80°)	12064.8	40.6			G5
FVH	(80°-90°)	423.1	1.4			G3/500
BL	(0°-30°)	1434.9	4.8	B3/2500		
BM	(30°-60°)	2721.2	9.2	B3/5000		
BH	(60°-80°)	1282.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	231.5	0.8			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°	55°	65°	75°	85°	90°
0°	4487.4	4487.4	4487.4	4487.4	4487.4	4487.4	4487.4	4487.4	4487.4	4487.4	4487.4
2.5°	4310.2	4319.0	4308.9	4321.7	4343.1	4366.0	4381.8	4404.5	4430.3	4466.0	4474.5
5°	4107.6	4120.4	4120.4	4143.3	4184.7	4221.8	4256.0	4293.2	4347.3	4408.8	4433.0
7.5°	3884.8	3891.9	3904.8	3939.1	3999.1	4051.9	4100.5	4160.4	4234.6	4315.9	4358.8
10°	3616.4	3626.4	3646.4	3695.0	3776.4	3849.1	3919.0	4001.9	4096.1	4197.5	4251.8
12.5°	3426.6	3423.7	3432.2	3467.9	3539.3	3627.9	3729.3	3834.9	3950.6	4069.1	4134.7
15°	3362.3	3346.5	3313.8	3305.1	3343.8	3432.2	3549.4	3679.3	3817.7	3960.4	4041.8
17.5°	3402.3	3375.1	3285.2	3219.5	3213.7	3280.9	3405.1	3550.7	3710.7	3884.8	3986.1
20°	3653.5	3589.3	3367.9	3215.3	3162.5	3195.2	3303.7	3457.9	3646.4	3877.8	4007.6
22.5°	4254.6	4160.4	3690.6	3406.6	3228.1	3188.2	3269.6	3433.7	3653.5	3966.2	4131.8
25°	5129.9	4995.7	4244.6	3883.5	3515.1	3302.3	3320.9	3489.3	3754.9	4171.8	4371.7
27.5°	5820.8	5733.7	4968.4	4555.8	4037.6	3610.6	3487.8	3629.3	3962.0	4508.8	4712.9
30°	6232.0	6179.3	5742.3	5318.2	4704.3	4101.8	3807.7	3891.9	4286.1	4975.6	5144.1
32.5°	6708.9	6677.6	6463.3	6073.5	5424.0	4747.3	4314.6	4284.6	4720.1	5536.8	5613.8
35°	7202.9	7192.9	7067.2	6787.5	6196.2	5598.1	4987.0	4784.4	5192.7	6119.3	6070.7
37.5°	7662.6	7645.5	7572.6	7409.8	7004.4	6511.9	5672.3	5296.9	5702.4	6676.1	6460.4
40°	8509.3	8375.0	8125.2	8002.5	7821.1	7281.4	6216.4	5775.2	6230.6	7207.1	6797.4
42.5°	9541.4	9323.0	8857.6	8689.1	8663.4	7888.1	6587.5	6239.2	6763.1	7734.0	7128.6
45°	10353.9	10148.2	9747.1	9534.3	9628.6	8437.9	6960.2	6734.6	7311.3	8286.5	7469.9
47.5°	11220.5	10897.8	10366.7	10430.9	10636.6	8957.5	7340.0	7267.1	7912.5	8904.7	7893.9
50°	11251.9	11004.9	10772.1	11156.2	11476.0	9435.8	7815.3	7825.3	8647.8	9682.8	8457.8
52.5°	10599.5	10546.6	10916.4	11520.4	11981.5	9814.2	8356.5	8402.1	9588.6	10576.6	9077.5
55°	10371.0	10311.0	10737.9	11393.3	12050.0	10126.9	8943.3	9026.1	10726.5	11518.8	9681.5
57.5°	10927.8	10795.0	10823.6	11333.2	11883.0	10469.4	9582.8	9749.9	11962.9	12342.7	10069.7
60°	12484.0	12199.9	11660.2	11647.3	11972.9	10983.4	10322.5	10526.6	13247.8	12736.7	9918.4
62.5°	14666.9	14382.9	13372.1	12713.9	12665.4	11831.5	11230.5	11284.8	13990.3	12202.8	8994.6
65°	17029.9	16775.8	15646.4	14717.0	14268.7	13236.4	12285.6	11623.1	13747.5	10733.7	7378.5
67.5°	19898.1	19625.5	18654.7	17796.6	17365.5	15503.7	13026.5	11299.1	12207.1	8315.2	5304.0
70°	21904.1	21625.7	21243.1	21938.3	22993.5	18774.5	13122.3	9981.2	9117.4	5526.7	3192.3
72.5°	19287.1	19157.3	19855.3	22783.6	27178.2	20759.1	11861.5	7267.1	5295.4	2934.0	1847.5
73°	17671.0	17642.4	18833.1	22191.1	27208.1	20453.6	11309.0	6754.5	4541.7	2595.7	1689.1
75°	7979.6	8209.4	10819.2	16949.9	23638.8	16854.3	7959.5	3874.8	2565.6	1793.2	1275.0
77.5°	1917.4	1997.4	3385.2	8049.5	14928.3	10043.9	3606.4	1916.1	1640.5	1266.4	930.9
80°	816.6	843.8	1303.5	2974.0	7028.7	4044.8	1661.9	1283.5	1135.1	883.8	652.4
82.5°	454.1	482.6	739.6	1349.3	2836.8	1379.2	1013.6	893.8	746.8	532.5	424.0
85°	256.9	272.6	432.7	753.9	1202.1	554.0	606.7	593.9	421.1	274.2	208.4
87.5°	121.4	131.3	208.4	349.8	471.2	217.0	308.4	339.7	264.1	167.1	108.5
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4487.4	4487.4	4487.4	4487.4	4487.4	4487.4	4487.4	4487.4	4487.4	4487.4
2.5°	4484.5	4510.2	4540.2	4555.8	4570.1	4587.3	4604.4	4604.4	4607.2	4608.8
5°	4453.1	4505.9	4553.0	4573.0	4577.3	4577.3	4573.0	4550.2	4530.2	4538.7
7.5°	4387.4	4464.4	4504.6	4497.4	4443.0	4380.2	4327.4	4263.1	4230.4	4224.5
10°	4293.2	4381.8	4388.8	4317.4	4183.2	4049.0	3937.7	3829.1	3777.7	3764.8
12.5°	4188.9	4270.4	4224.5	4077.5	3862.1	3666.4	3525.0	3415.1	3366.6	3353.7
15°	4104.7	4160.4	4044.8	3813.5	3542.1	3335.1	3218.1	3136.7	3102.4	3092.4
17.5°	4060.5	4071.8	3860.6	3547.9	3259.5	3086.8	3014.0	2975.4	2962.5	2955.5
20°	4081.9	4001.9	3684.9	3300.9	3028.1	2906.8	2889.7	2879.7	2876.8	2872.6
22.5°	4188.9	3980.5	3523.6	3066.8	2825.4	2772.7	2786.9	2785.5	2782.6	2779.7
25°	4380.2	3999.1	3366.6	2844.0	2655.6	2644.2	2669.9	2669.9	2658.4	2658.4
27.5°	4633.0	4037.6	3191.0	2632.8	2501.4	2502.8	2522.8	2517.1	2504.3	2495.6
30°	4941.3	4061.9	2985.3	2442.9	2357.2	2351.5	2357.2	2332.9	2294.4	2291.4
32.5°	5256.9	4032.0	2746.9	2274.4	2204.4	2191.5	2187.3	2153.0	2108.7	2095.8
35°	5542.5	3922.0	2504.3	2140.1	2058.7	2030.2	2050.2	2038.9	1998.8	1988.8
37.5°	5750.9	3717.7	2285.7	2021.6	1954.5	1947.4	1960.3	1964.6	1917.4	1907.5
40°	5890.7	3440.8	2098.8	1921.7	1934.6	1907.5	1864.6	1834.6	1820.3	1816.1
42.5°	6003.6	3152.4	1941.6	1874.7	1938.8	1860.3	1767.5	1718.9	1744.7	1756.0
45°	6133.4	2871.2	1810.4	1816.1	1917.4	1806.0	1700.4	1653.3	1663.3	1666.1
47.5°	6312.0	2528.5	1669.1	1721.8	1846.0	1768.9	1659.0	1591.8	1544.7	1523.3
50°	6559.0	2123.1	1522.0	1616.2	1776.0	1741.9	1594.9	1523.3	1436.3	1416.3
52.5°	6730.3	1744.7	1400.5	1527.7	1713.2	1687.6	1543.4	1450.6	1359.1	1342.1
55°	6637.4	1449.1	1294.9	1429.2	1630.5	1620.5	1500.6	1376.4	1305.0	1290.7
57.5°	6173.5	1262.1	1213.6	1336.4	1529.1	1563.4	1443.4	1313.5	1262.1	1252.1
60°	5288.3	1145.0	1162.1	1273.5	1446.4	1506.3	1386.4	1279.2	1245.1	1237.9
62.5°	4103.3	1066.5	1123.6	1227.9	1382.0	1466.3	1355.0	1275.0	1262.1	1253.6
65°	2939.7	1003.6	1082.2	1182.2	1323.6	1429.2	1343.4	1269.2	1272.1	1265.0
67.5°	1997.4	948.0	1032.2	1130.7	1266.4	1396.3	1327.8	1249.3	1284.9	1276.4
70°	1397.8	893.8	973.8	1065.1	1195.0	1350.6	1299.2	1219.3	1216.5	1182.2
72.5°	1090.8	822.4	893.8	973.8	1103.7	1286.5	1242.1	1152.2	1105.0	1069.3
73°	1040.7	805.2	873.8	953.7	1083.6	1270.7	1226.5	1133.7	1080.8	1048.0
75°	860.9	731.0	793.8	865.2	997.9	1196.5	1149.3	1049.4	982.2	962.3
77.5°	676.8	625.3	685.2	749.5	879.5	1087.9	1035.0	939.4	902.3	885.2
80°	501.2	518.2	571.1	628.3	762.4	972.2	925.2	829.6	995.1	953.7
82.5°	352.7	392.6	441.2	492.6	639.7	859.5	802.4	703.8	728.2	605.4
85°	208.4	256.9	302.6	346.9	461.2	712.4	662.5	561.1	459.8	438.4
87.5°	121.4	142.8	155.6	201.3	316.9	536.8	466.8	415.5	238.4	161.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)