

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: P194055

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194055  
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-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 615mA 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: 22772 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 - G4

Input Watts (W): 226  
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

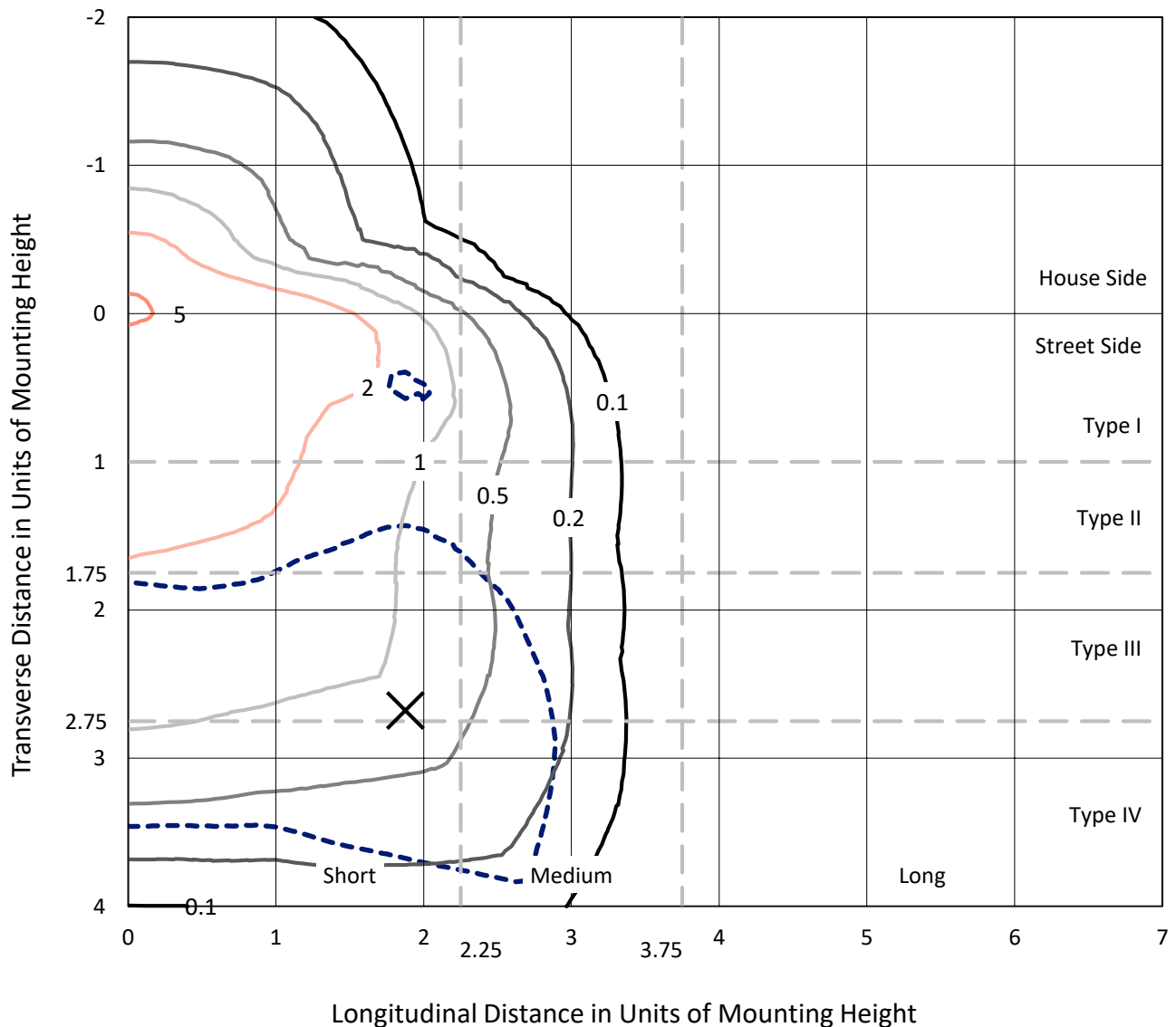


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

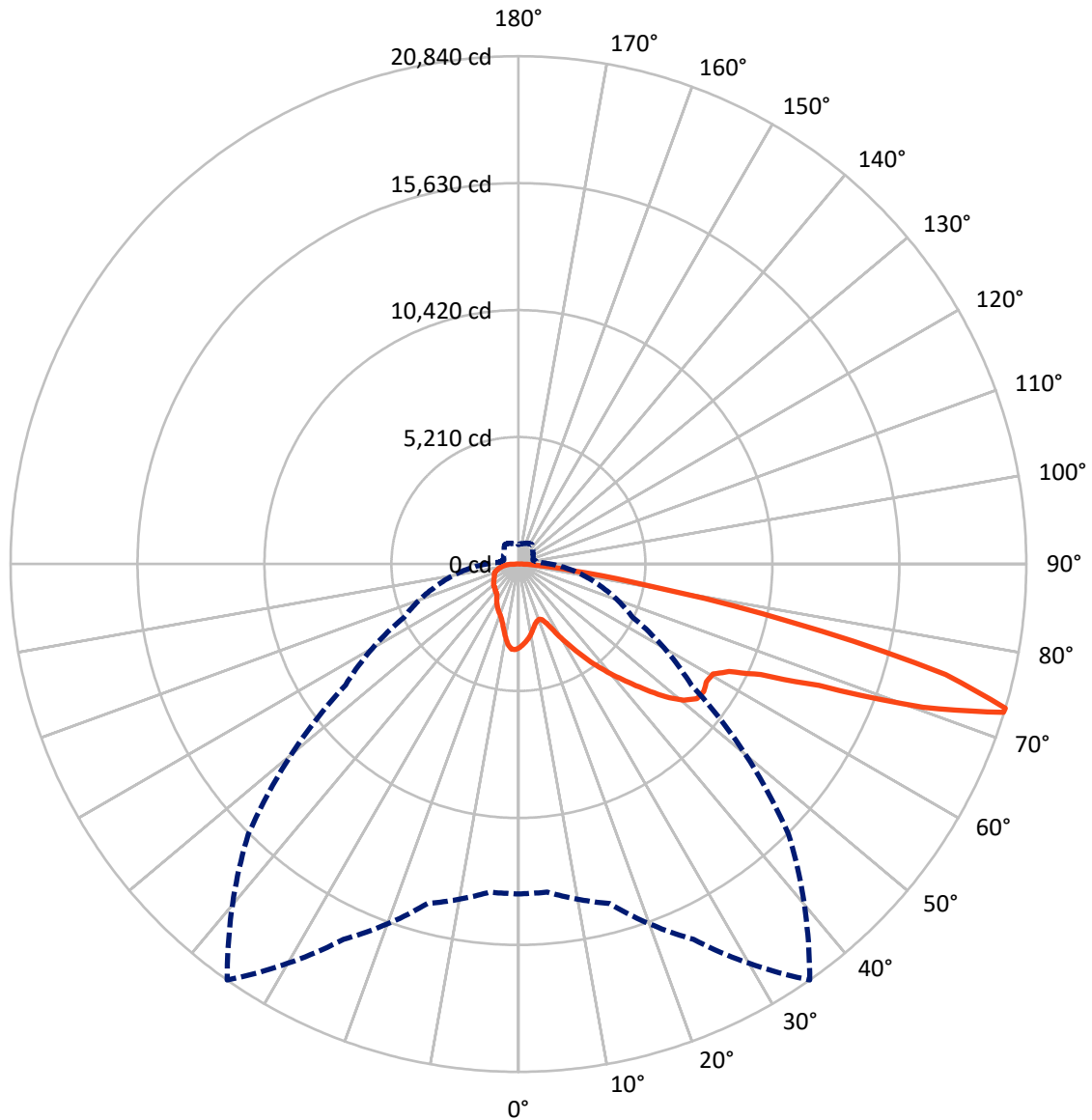


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - Non-Cutoff

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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	4343.3	0.0	4343.3
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	18428.8	0.0	18428.8
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	22772.0	0.0	22772.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.1	1.4
10°-20°	776.6	3.4
20°-30°	1255.4	5.5
30°-40°	2105.2	9.2
40°-50°	3245.1	14.3
50°-60°	4353.6	19.1
60°-70°	5799.9	25.5
70°-80°	4423.6	19.4
80°-90°	501.4	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°	22772.0	100.0
0°-180°	22772.0	100.0



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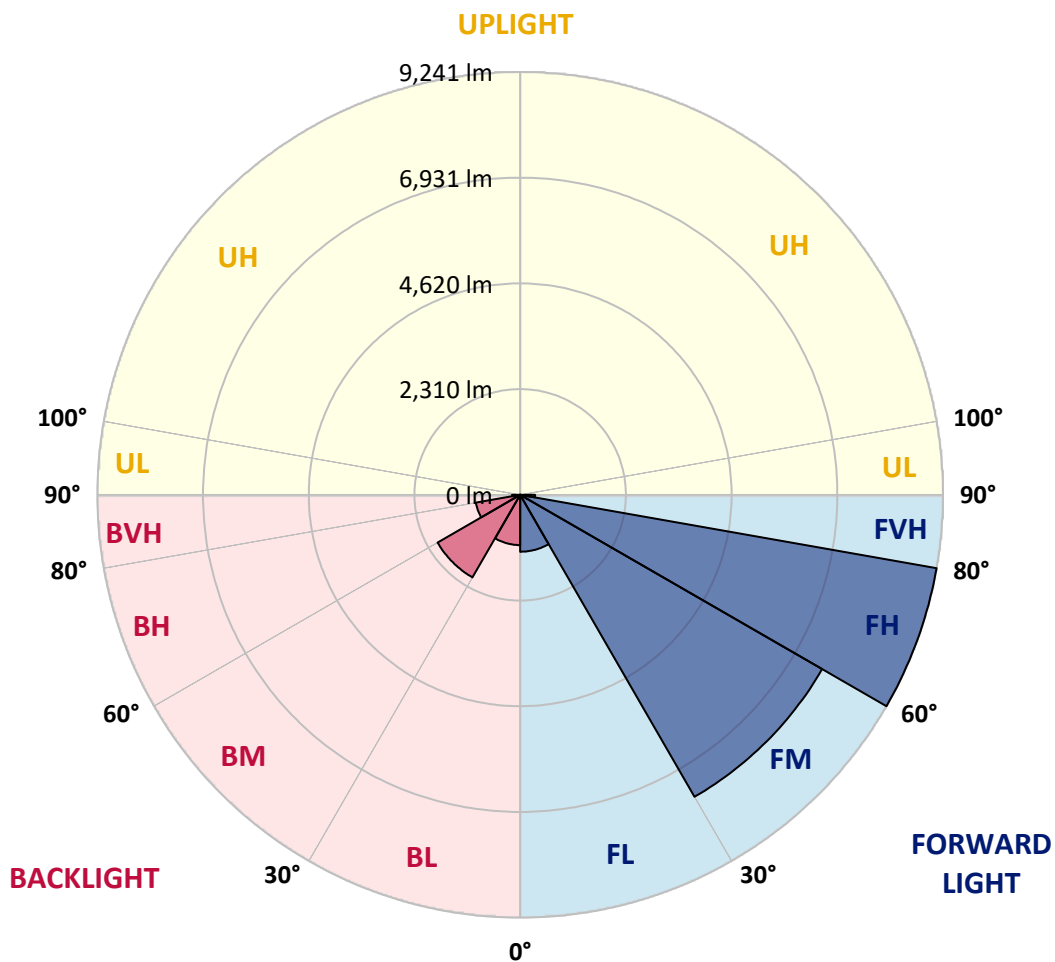
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1244.1	5.5			
FM	(30°-60°)	7619.7	33.5			
FH	(60°-80°)	9240.9	40.6			G4/12000
FVH	(80°-90°)	324.1	1.4			G3/500
BL	(0°-30°)	1099.1	4.8	B3/2500		
BM	(30°-60°)	2084.3	9.2	B2/2500		
BH	(60°-80°)	982.6	4.3	B2/1000		G2/1000
BVH	(80°-90°)	177.3	0.8			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°	35°	45°	55°	65°	75°	85°	90°
0°	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0
2.5°	3301.4	3308.0	3300.3	3310.2	3326.6	3344.1	3356.1	3373.6	3393.3	3420.6	3427.2
5°	3146.1	3156.0	3156.0	3173.5	3205.2	3233.6	3259.8	3288.3	3329.8	3376.9	3395.4
7.5°	2975.5	2981.0	2990.8	3017.1	3063.0	3103.5	3140.7	3186.6	3243.4	3305.8	3338.6
10°	2769.9	2777.6	2792.9	2830.1	2892.4	2948.2	3001.8	3065.2	3137.4	3215.0	3256.6
12.5°	2624.5	2622.3	2628.9	2656.2	2710.9	2778.7	2856.3	2937.3	3025.8	3116.6	3166.9
15°	2575.3	2563.3	2538.1	2531.5	2561.1	2628.9	2718.5	2818.1	2924.1	3033.5	3095.8
17.5°	2605.9	2585.1	2516.2	2465.9	2461.6	2513.0	2608.1	2719.6	2842.1	2975.5	3053.2
20°	2798.4	2749.2	2579.7	2462.7	2422.2	2447.3	2530.5	2648.6	2792.9	2970.1	3069.6
22.5°	3258.8	3186.6	2826.8	2609.2	2472.5	2441.9	2504.2	2630.0	2798.4	3037.9	3164.7
25°	3929.1	3826.3	3251.1	2974.4	2692.3	2529.4	2543.6	2672.6	2876.0	3195.3	3348.4
27.5°	4458.4	4391.7	3805.5	3489.5	3092.5	2765.6	2671.5	2779.8	3034.6	3453.4	3609.8
30°	4773.3	4732.8	4398.2	4073.4	3603.2	3141.7	2916.5	2981.0	3282.8	3811.0	3940.0
32.5°	5138.6	5114.5	4950.5	4651.9	4154.4	3636.0	3304.7	3281.7	3615.2	4240.8	4299.8
35°	5516.9	5509.3	5413.0	5198.7	4746.0	4287.8	3819.7	3664.5	3977.2	4686.9	4649.7
37.5°	5869.0	5855.9	5800.1	5675.5	5364.9	4987.6	4344.6	4057.0	4367.6	5113.4	4948.3
40°	6517.5	6414.7	6223.3	6129.3	5990.4	5577.1	4761.3	4423.4	4772.2	5520.2	5206.4
42.5°	7308.1	7140.8	6784.3	6655.3	6635.6	6041.8	5045.6	4778.8	5180.1	5923.7	5460.1
45°	7930.4	7772.9	7465.6	7302.7	7374.8	6462.8	5331.0	5158.2	5600.0	6346.9	5721.4
47.5°	8594.1	8347.0	7940.2	7989.4	8146.9	6860.9	5621.9	5566.1	6060.4	6820.4	6046.2
50°	8618.2	8429.0	8250.8	8544.9	8789.9	7227.2	5986.0	5993.7	6623.6	7416.4	6478.1
52.5°	8118.5	8078.0	8361.2	8823.8	9177.0	7517.0	6400.5	6435.5	7344.2	8101.0	6952.7
55°	7943.5	7897.6	8224.5	8726.5	9229.5	7756.5	6849.9	6913.4	8215.8	8822.7	7415.3
57.5°	8370.0	8268.3	8290.1	8680.5	9101.5	8018.9	7339.9	7467.8	9162.8	9453.7	7712.8
60°	9561.9	9344.3	8931.0	8921.1	9170.4	8412.6	7906.3	8062.7	10147.0	9755.5	7596.8
62.5°	11234.0	11016.3	10242.1	9738.0	9700.8	9062.2	8601.8	8643.4	10715.6	9346.5	6889.3
65°	13043.8	12849.1	11984.1	11272.2	10928.9	10138.2	9409.9	8902.5	10529.7	8221.2	5651.4
67.5°	15240.7	15031.8	14288.2	13631.0	13300.8	11874.8	9977.5	8654.3	9349.8	6368.8	4062.5
70°	16777.1	16563.9	16270.8	16803.4	17611.5	14380.1	10050.7	7645.0	6983.4	4233.1	2445.2
72.5°	14772.7	14673.1	15207.9	17450.7	20816.7	15900.1	9085.1	5566.1	4055.9	2247.2	1415.0
73°	13534.8	13512.9	14424.9	16996.9	20839.6	15666.1	8661.9	5173.5	3478.6	1988.1	1293.7
75°	6111.8	6287.9	8286.9	12982.5	18105.8	12909.3	6096.5	2967.9	1965.1	1373.5	976.5
77.5°	1468.6	1529.9	2592.8	6165.4	11434.1	7693.1	2762.3	1467.5	1256.5	970.0	713.0
80°	625.5	646.3	998.4	2277.8	5383.5	3098.0	1272.9	983.1	869.4	676.9	499.7
82.5°	347.7	369.6	566.5	1033.4	2172.9	1056.4	776.4	684.6	571.9	407.9	324.8
85°	196.8	208.9	331.3	577.4	920.8	424.3	464.8	454.9	322.6	210.0	159.7
87.5°	93.0	100.6	159.7	267.9	360.9	166.2	236.2	260.3	202.3	127.9	83.1
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°	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0
2.5°	3434.8	3454.5	3477.5	3489.5	3500.4	3513.6	3526.7	3526.7	3528.9	3530.0
5°	3410.8	3451.2	3487.3	3502.6	3505.9	3505.9	3502.6	3485.1	3469.8	3476.4
7.5°	3360.5	3419.5	3450.1	3444.7	3403.1	3355.0	3314.5	3265.3	3240.2	3235.8
10°	3288.3	3356.1	3361.5	3306.9	3204.1	3101.3	3016.0	2932.9	2893.5	2883.7
12.5°	3208.5	3270.8	3235.8	3123.2	2958.0	2808.2	2700.0	2615.8	2578.6	2568.7
15°	3143.9	3186.6	3098.0	2920.9	2713.1	2554.5	2464.8	2402.5	2376.3	2368.6
17.5°	3110.0	3118.8	2956.9	2717.5	2496.6	2364.2	2308.5	2278.9	2269.1	2263.6
20°	3126.4	3065.2	2822.4	2528.3	2319.4	2226.5	2213.3	2205.7	2203.5	2200.2
22.5°	3208.5	3048.8	2698.9	2348.9	2164.1	2123.7	2134.6	2133.5	2131.3	2129.1
25°	3355.0	3063.0	2578.6	2178.3	2034.0	2025.2	2044.9	2044.9	2036.2	2036.2
27.5°	3548.5	3092.5	2444.1	2016.5	1915.9	1917.0	1932.3	1927.9	1918.1	1911.5
30°	3784.7	3111.1	2286.6	1871.1	1805.4	1801.1	1805.4	1786.8	1757.3	1755.1
32.5°	4026.4	3088.2	2104.0	1742.0	1688.4	1678.6	1675.3	1649.1	1615.2	1605.3
35°	4245.1	3004.0	1918.1	1639.2	1576.9	1555.0	1570.3	1561.6	1531.0	1523.3
37.5°	4404.8	2847.6	1750.8	1548.5	1497.1	1491.6	1501.4	1504.7	1468.6	1461.0
40°	4512.0	2635.4	1607.5	1471.9	1481.7	1461.0	1428.2	1405.2	1394.3	1391.0
42.5°	4598.3	2414.5	1487.2	1435.8	1485.0	1424.9	1353.8	1316.6	1336.3	1345.1
45°	4697.9	2199.1	1386.6	1391.0	1468.6	1383.3	1302.4	1266.3	1274.0	1276.2
47.5°	4834.5	1936.7	1278.4	1318.8	1413.9	1354.9	1270.7	1219.3	1183.2	1166.8
50°	5023.7	1626.1	1165.7	1237.9	1360.4	1334.1	1221.5	1166.8	1100.1	1084.8
52.5°	5155.0	1336.3	1072.8	1170.1	1312.3	1292.6	1182.1	1111.0	1041.1	1027.9
55°	5083.9	1109.9	991.8	1094.6	1248.8	1241.2	1149.3	1054.2	999.5	988.6
57.5°	4728.5	966.7	929.5	1023.6	1171.2	1197.4	1105.6	1006.1	966.7	959.0
60°	4050.5	877.0	890.1	975.4	1107.8	1153.7	1061.8	979.8	953.6	948.1
62.5°	3142.8	816.9	860.6	940.4	1058.5	1123.1	1037.8	976.5	966.7	960.1
65°	2251.6	768.8	828.9	905.5	1013.7	1094.6	1029.0	972.2	974.3	968.9
67.5°	1529.9	726.1	790.6	866.1	970.0	1069.5	1017.0	956.8	984.2	977.6
70°	1070.6	684.6	745.8	815.8	915.3	1034.5	995.1	933.9	931.7	905.5
72.5°	835.5	629.9	684.6	745.8	845.3	985.3	951.4	882.5	846.4	819.1
73°	797.2	616.8	669.2	730.5	830.0	973.3	939.4	868.3	827.8	802.7
75°	659.4	559.9	608.0	662.7	764.4	916.4	880.3	803.8	752.4	737.0
77.5°	518.3	479.0	524.9	574.1	673.6	833.3	792.8	719.6	691.1	678.0
80°	383.8	397.0	437.4	481.2	584.0	744.7	708.6	635.3	762.2	730.5
82.5°	270.1	300.7	337.9	377.3	489.9	658.3	614.6	539.1	557.7	463.7
85°	159.7	196.8	231.8	265.7	353.2	545.7	507.4	429.8	352.1	335.7
87.5°	93.0	109.4	119.2	154.2	242.8	411.2	357.6	318.2	182.6	123.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)