

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: P191515

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191515  
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-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 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: 28547.5 lumens  
Efficiency: N/A  
Efficacy: 126.3 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

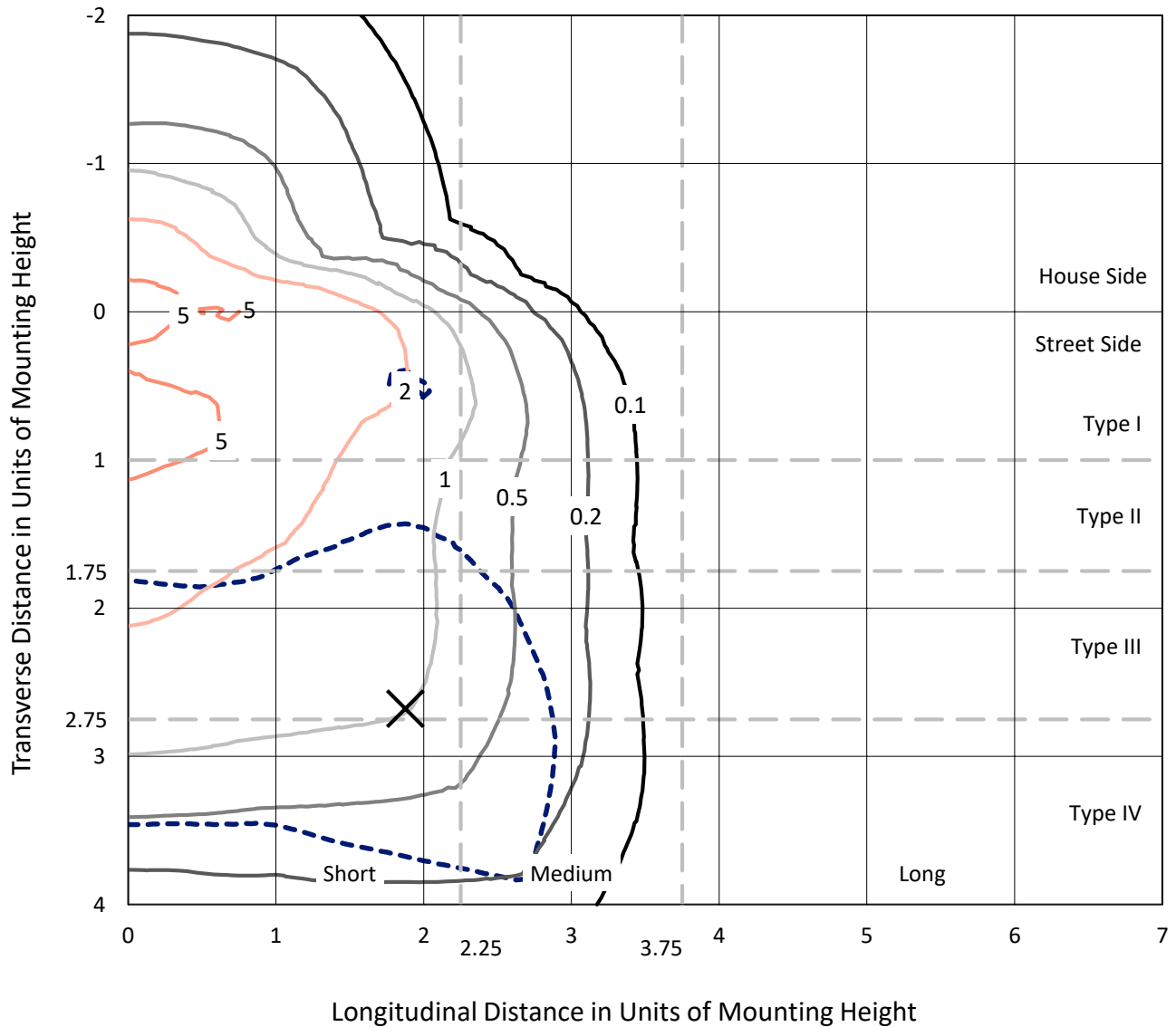
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

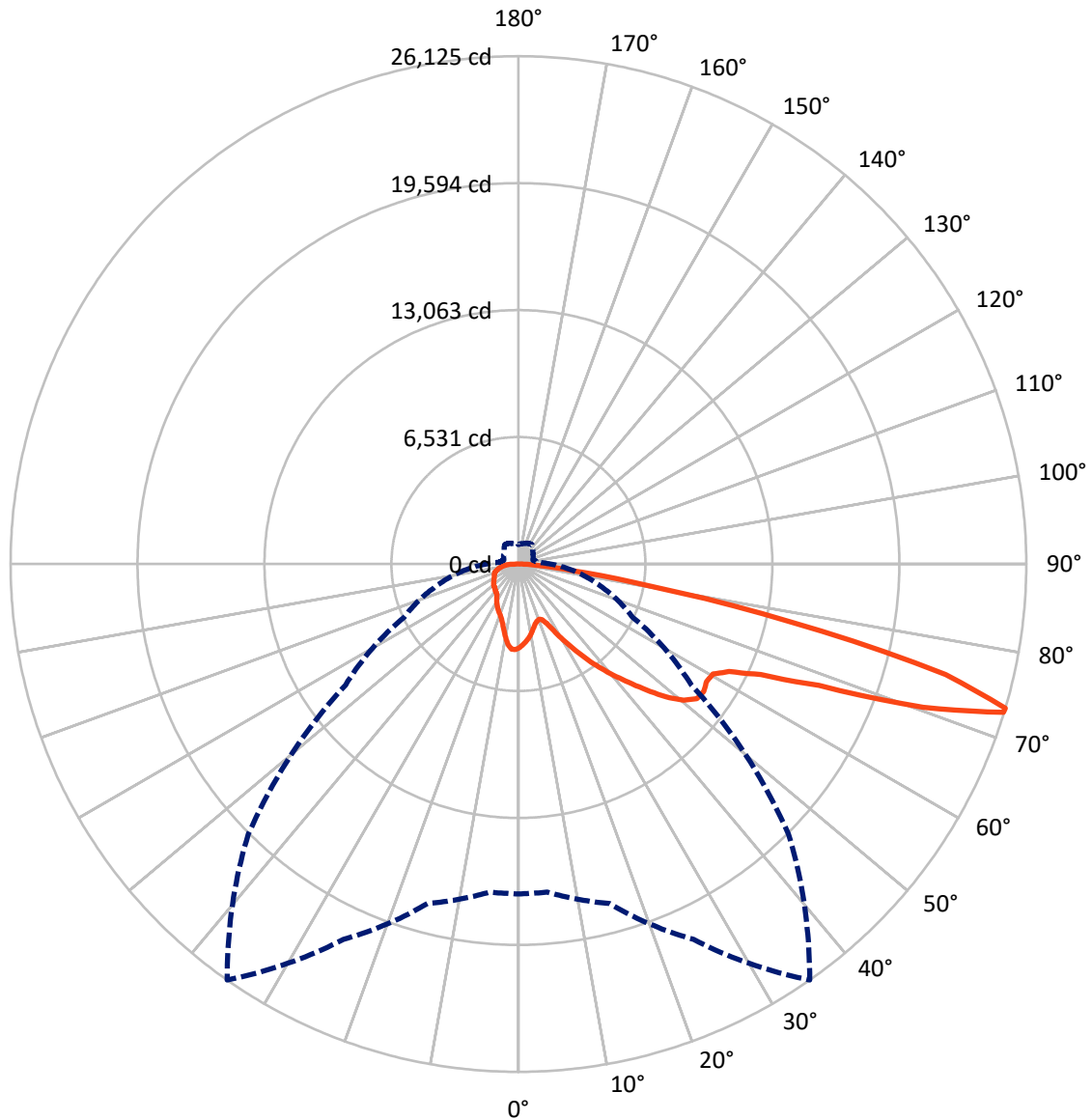
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	5444.8	0.0	5444.8
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	23102.7	0.0	23102.7
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	28547.5	0.0	28547.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.1	1.4
10°-20°	973.5	3.4
20°-30°	1573.9	5.5
30°-40°	2639.1	9.2
40°-50°	4068.1	14.3
50°-60°	5457.8	19.1
60°-70°	7270.9	25.5
70°-80°	5545.5	19.4
80°-90°	628.6	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°	28547.5	100.0
0°-180°	28547.5	100.0



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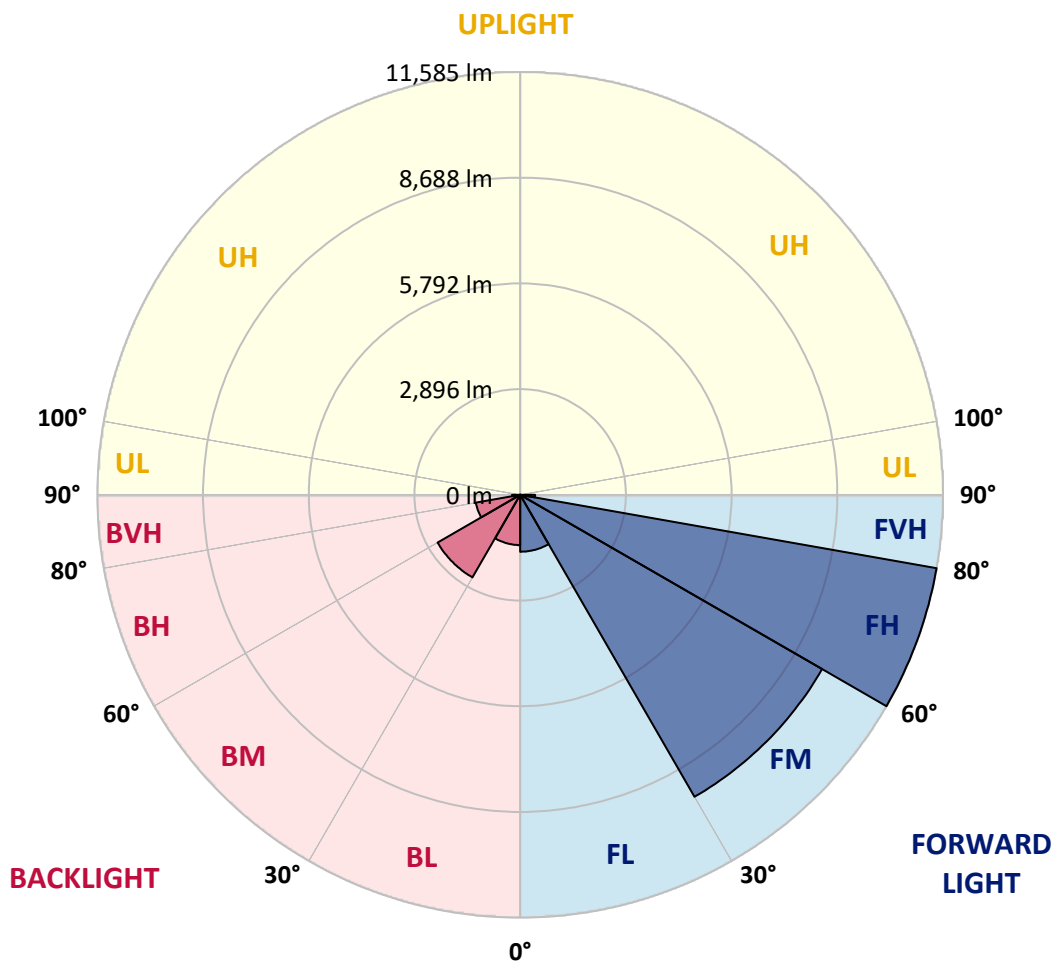
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1559.7	5.5			
FM	(30°-60°)	9552.2	33.5			
FH	(60°-80°)	11584.6	40.6			G4/12000
FVH	(80°-90°)	406.3	1.4			G3/500
BL	(0°-30°)	1377.8	4.8	B3/2500		
BM	(30°-60°)	2612.9	9.2	B3/5000		
BH	(60°-80°)	1231.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	222.3	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°	4308.7	4308.7	4308.7	4308.7	4308.7	4308.7	4308.7	4308.7	4308.7	4308.7	4308.7
2.5°	4138.8	4146.9	4137.3	4149.7	4170.3	4192.2	4207.3	4229.2	4253.8	4288.1	4296.4
5°	3944.1	3956.4	3956.4	3978.4	4018.0	4053.7	4086.6	4122.3	4174.4	4233.3	4256.6
7.5°	3730.2	3737.0	3749.4	3782.3	3839.9	3890.6	3937.2	3994.7	4066.0	4144.2	4185.3
10°	3472.5	3482.0	3501.3	3547.9	3626.0	3695.9	3763.1	3842.6	3933.0	4030.4	4082.5
12.5°	3290.1	3287.4	3295.6	3329.9	3398.4	3483.5	3580.7	3682.2	3793.2	3907.1	3970.1
15°	3228.4	3213.4	3181.8	3173.6	3210.6	3295.6	3408.1	3532.8	3665.7	3802.8	3881.0
17.5°	3266.8	3240.8	3154.4	3091.4	3085.8	3150.3	3269.6	3409.4	3562.9	3730.2	3827.5
20°	3508.1	3446.4	3234.0	3087.3	3036.5	3068.0	3172.3	3320.3	3501.3	3723.3	3848.0
22.5°	4085.3	3994.7	3543.7	3271.0	3099.5	3061.2	3139.3	3297.0	3508.1	3808.3	3967.3
25°	4925.6	4796.7	4075.6	3728.9	3375.1	3170.8	3188.6	3350.5	3605.4	4005.8	4197.7
27.5°	5589.1	5505.5	4770.7	4374.5	3876.9	3467.0	3349.0	3484.8	3804.3	4329.2	4525.3
30°	5984.0	5933.2	5513.7	5106.6	4517.0	3938.6	3656.1	3737.0	4115.4	4777.6	4939.3
32.5°	6441.8	6411.7	6206.0	5831.7	5208.0	4558.2	4142.8	4114.0	4532.2	5316.3	5390.3
35°	6916.2	6906.6	6785.9	6517.2	5949.7	5375.3	4788.5	4593.9	4986.0	5875.6	5829.0
37.5°	7357.6	7341.1	7271.2	7114.9	6725.6	6252.6	5446.5	5086.0	5475.3	6410.3	6203.3
40°	8170.5	8041.6	7801.7	7683.8	7509.7	6991.6	5968.8	5545.2	5982.5	6920.3	6526.8
42.5°	9161.6	8951.9	8505.0	8343.2	8318.5	7574.1	6325.3	5990.8	6493.9	7426.1	6844.9
45°	9941.6	9744.3	9359.1	9154.8	9245.2	8102.0	6683.0	6466.5	7020.3	7956.6	7172.5
47.5°	10773.8	10464.0	9954.0	10015.7	10213.1	8601.0	7047.7	6977.9	7597.5	8550.2	7579.7
50°	10804.0	10566.8	10343.4	10712.1	11019.2	9060.2	7504.3	7513.9	8303.5	9297.4	8121.1
52.5°	10177.4	10126.8	10481.8	11061.7	11504.5	9423.5	8023.8	8067.7	9206.9	10155.5	8716.2
55°	9958.1	9900.5	10310.4	10939.6	11570.3	9723.8	8587.3	8666.7	10299.5	11060.3	9296.0
57.5°	10492.8	10365.3	10392.7	10882.2	11409.9	10052.7	9201.4	9361.8	11486.7	11851.3	9668.8
60°	11987.0	11714.2	11196.1	11183.7	11496.2	10546.2	9911.6	10107.6	12720.5	12229.7	9523.6
62.5°	14083.2	13810.3	12839.8	12207.8	12161.1	11360.6	10783.4	10835.5	13433.3	11717.0	8636.6
65°	16352.0	16107.9	15023.6	14131.1	13700.7	12709.6	11796.5	11160.4	13200.3	10306.3	7084.8
67.5°	19106.1	18844.2	17912.1	17088.1	16674.1	14886.5	12508.0	10849.2	11721.1	7984.0	5092.9
70°	21032.2	20764.9	20397.4	21065.1	22078.1	18027.2	12599.8	9583.9	8754.5	5306.7	3065.3
72.5°	18519.3	18394.6	19064.9	21876.6	26096.2	19932.7	11389.3	6977.9	5084.6	2817.2	1773.9
73°	16967.5	16940.1	18083.4	21307.8	26125.0	19639.3	10858.8	6485.7	4360.8	2492.3	1621.8
75°	7661.9	7882.7	10388.6	16275.1	22697.8	16183.4	7642.7	3720.6	2463.5	1721.8	1224.2
77.5°	1841.1	1917.8	3250.4	7729.1	14334.0	9644.2	3462.9	1839.8	1575.1	1216.0	893.9
80°	784.2	810.2	1251.6	2855.6	6748.9	3883.7	1595.7	1232.5	1089.9	848.5	626.5
82.5°	436.0	463.4	710.1	1295.5	2723.9	1324.3	973.3	858.2	717.0	511.4	407.1
85°	246.7	261.9	415.4	723.8	1154.3	531.9	582.7	570.3	404.4	263.2	200.2
87.5°	116.5	126.1	200.2	335.8	452.3	208.4	296.1	326.3	253.6	160.4	104.1
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°	4308.7	4308.7	4308.7	4308.7	4308.7	4308.7	4308.7	4308.7	4308.7	4308.7
2.5°	4306.0	4330.7	4359.4	4374.5	4388.3	4404.6	4421.1	4421.1	4423.9	4425.2
5°	4275.8	4326.6	4371.8	4390.9	4395.1	4395.1	4390.9	4369.0	4349.8	4358.1
7.5°	4212.7	4286.8	4325.1	4318.3	4266.2	4205.9	4155.1	4093.4	4061.9	4056.4
10°	4122.3	4207.3	4214.1	4145.6	4016.7	3887.8	3780.9	3676.7	3627.4	3615.0
12.5°	4022.1	4100.3	4056.4	3915.2	3708.3	3520.5	3384.7	3279.2	3232.5	3220.2
15°	3941.3	3994.7	3883.7	3661.7	3401.2	3202.3	3090.0	3011.9	2978.9	2969.3
17.5°	3898.8	3909.8	3706.9	3406.6	3129.7	2963.9	2893.9	2856.9	2844.6	2837.8
20°	3919.3	3842.6	3538.3	3169.5	2907.6	2791.1	2774.7	2765.0	2762.4	2758.2
22.5°	4022.1	3822.1	3383.3	2944.7	2713.0	2662.2	2675.9	2674.6	2671.8	2669.1
25°	4205.9	3839.9	3232.5	2730.8	2549.8	2538.9	2563.5	2563.5	2552.6	2552.6
27.5°	4448.5	3876.9	3063.9	2527.9	2401.8	2403.2	2422.3	2416.9	2404.5	2396.3
30°	4744.7	3900.2	2866.5	2345.6	2263.4	2257.9	2263.4	2240.1	2203.0	2200.3
32.5°	5047.6	3871.4	2637.6	2183.8	2116.7	2104.3	2100.2	2067.3	2024.8	2012.5
35°	5321.8	3765.8	2404.5	2055.0	1976.9	1949.4	1968.6	1957.6	1919.3	1909.6
37.5°	5521.9	3569.8	2194.8	1941.2	1876.7	1869.9	1882.2	1886.3	1841.1	1831.5
40°	5656.3	3303.8	2015.2	1845.2	1857.6	1831.5	1790.4	1761.6	1747.9	1743.7
42.5°	5764.6	3026.9	1864.4	1800.0	1861.7	1786.3	1697.2	1650.5	1675.2	1686.2
45°	5889.3	2756.9	1738.3	1743.7	1841.1	1734.2	1632.7	1587.5	1597.1	1599.8
47.5°	6060.7	2427.9	1602.6	1653.3	1772.6	1698.5	1592.9	1528.5	1483.3	1462.7
50°	6297.9	2038.5	1461.4	1551.8	1705.4	1672.5	1531.3	1462.7	1379.1	1359.9
52.5°	6462.4	1675.2	1344.9	1466.8	1645.1	1620.4	1481.9	1392.8	1305.1	1288.6
55°	6373.3	1391.4	1243.4	1372.3	1565.5	1555.9	1440.8	1321.6	1253.0	1239.3
57.5°	5927.7	1211.9	1165.2	1283.2	1468.2	1501.1	1386.0	1261.2	1211.9	1202.3
60°	5077.7	1099.5	1115.9	1222.8	1388.8	1446.2	1331.2	1228.4	1195.4	1188.6
62.5°	3939.9	1024.1	1078.9	1179.0	1327.0	1407.9	1301.0	1224.2	1211.9	1203.6
65°	2822.6	963.7	1039.1	1135.1	1270.8	1372.3	1290.0	1218.7	1221.5	1214.7
67.5°	1917.8	910.2	991.1	1085.8	1216.0	1340.7	1274.9	1199.5	1233.8	1225.6
70°	1342.1	858.2	935.0	1022.6	1147.4	1296.9	1247.5	1170.8	1168.0	1135.1
72.5°	1047.4	789.6	858.2	935.0	1059.7	1235.2	1192.7	1106.3	1061.1	1026.8
73°	999.4	773.1	839.0	915.7	1040.5	1220.1	1177.6	1088.5	1037.8	1006.3
75°	826.6	701.8	762.2	830.7	958.3	1148.8	1103.6	1007.6	943.2	923.9
77.5°	649.8	600.5	658.1	719.7	844.4	1044.6	993.9	902.0	866.4	850.0
80°	481.2	497.7	548.4	603.2	732.0	933.5	888.3	796.5	955.5	915.7
82.5°	338.6	377.0	423.6	472.9	614.2	825.3	770.5	675.9	699.2	581.2
85°	200.2	246.7	290.6	333.2	442.8	684.0	636.1	538.8	441.4	420.8
87.5°	116.5	137.1	149.5	193.3	304.3	515.5	448.3	399.0	228.9	154.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)