

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: P194074

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194074  
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-06-LED-E1-T4FT-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1050mA 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: 29225 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

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

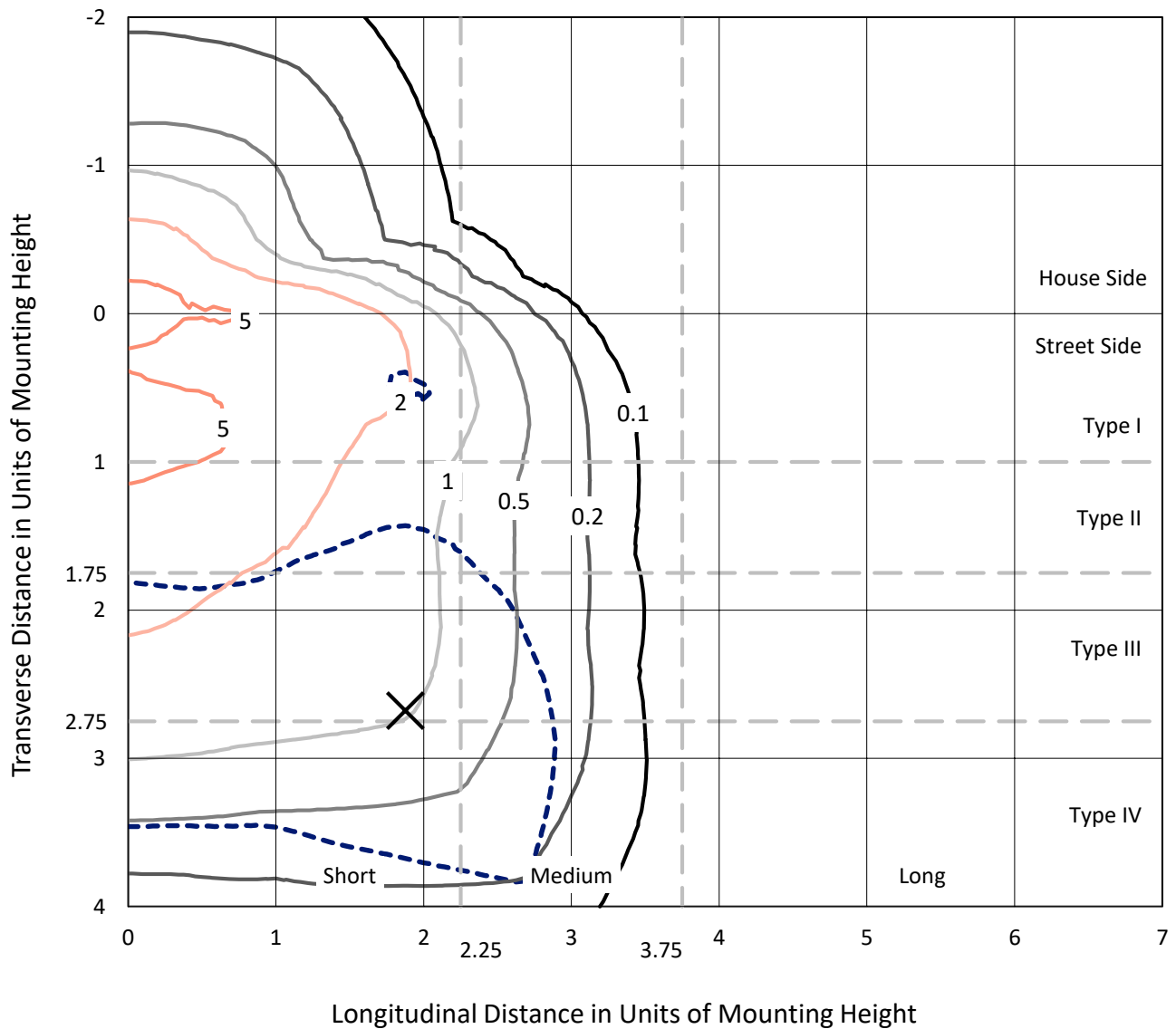


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### Iso-Footcandle Lines of Horizontal Illumination

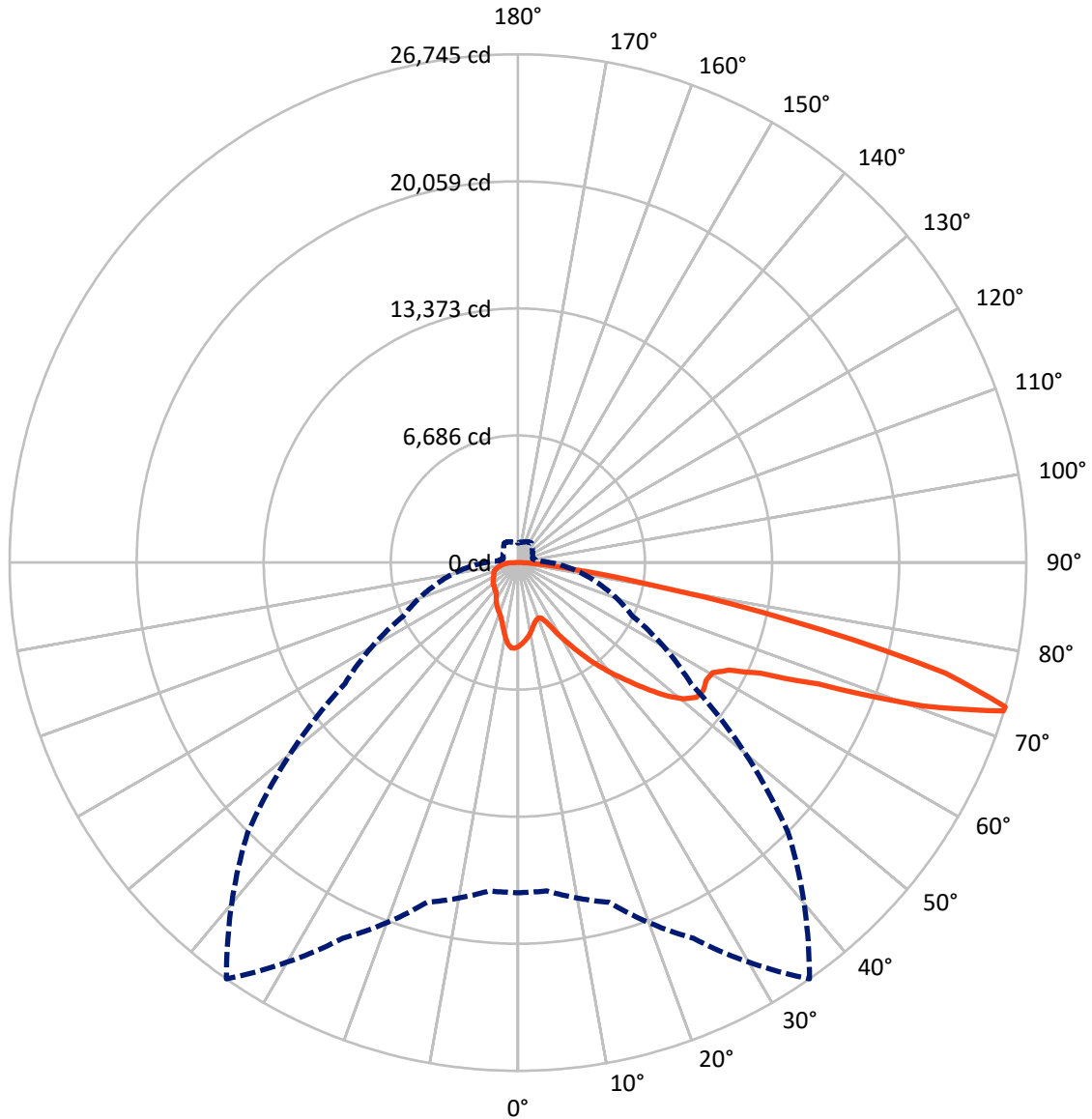
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	5574.0	0.0	5574.0
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	23651.0	0.0	23651.0
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	29225.0	0.0	29225.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.3	1.4
10°-20°	996.6	3.4
20°-30°	1611.2	5.5
30°-40°	2701.8	9.2
40°-50°	4164.7	14.3
50°-60°	5587.3	19.1
60°-70°	7443.5	25.5
70°-80°	5677.1	19.4
80°-90°	643.5	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°	29225.0	100.0
0°-180°	29225.0	100.0



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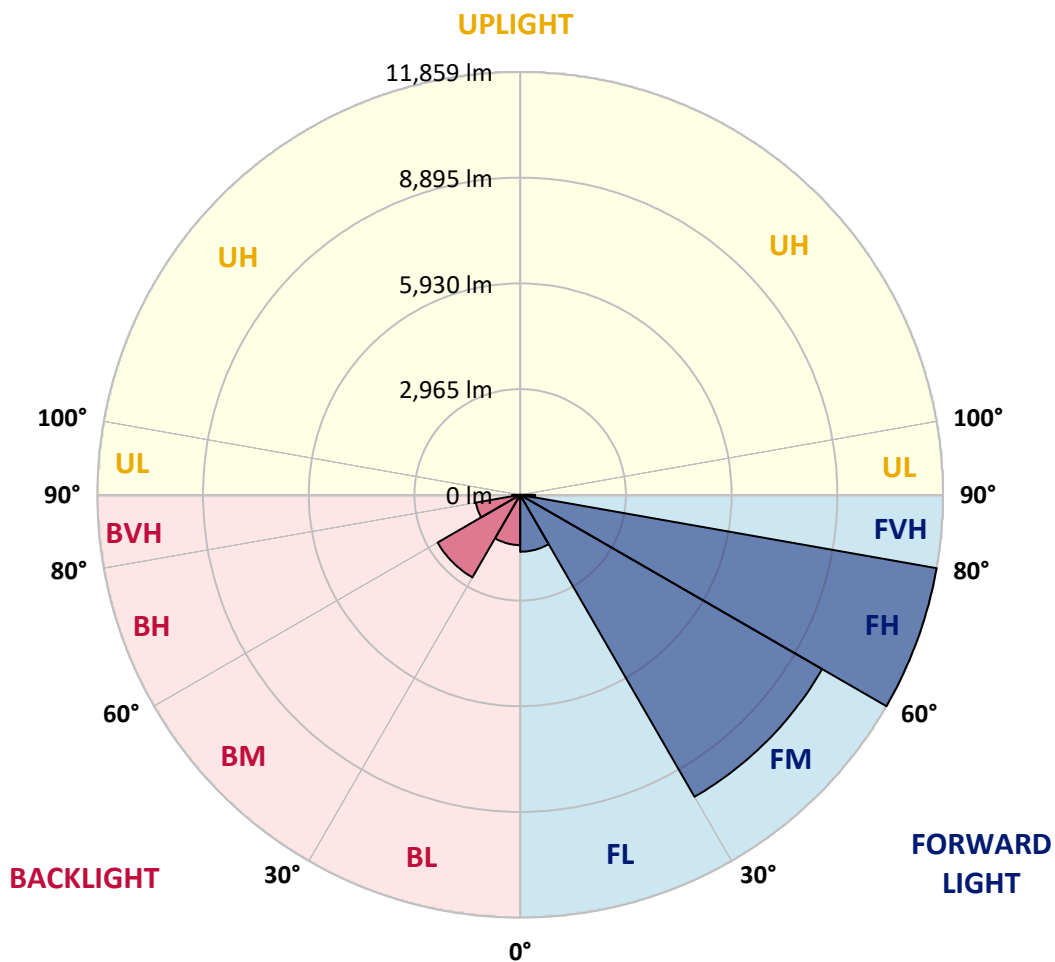
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1596.7	5.5			
FM (30°-60°)	9778.9	33.5			
FH (60°-80°)	11859.5	40.6			G4/12000
FVH (80°-90°)	415.9	1.4			G3/500
BL (0°-30°)	1410.5	4.8	B3/2500		
BM (30°-60°)	2674.9	9.2	B3/5000		
BH (60°-80°)	1261.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	227.5	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0
2.5°	4236.9	4245.4	4235.5	4248.2	4269.2	4291.7	4307.1	4329.6	4354.8	4389.9	4398.3
5°	4037.6	4050.3	4050.3	4072.7	4113.4	4149.9	4183.6	4220.1	4273.4	4333.8	4357.6
7.5°	3818.7	3825.7	3838.4	3872.0	3931.0	3982.9	4030.6	4089.6	4162.6	4242.5	4284.7
10°	3554.9	3564.7	3584.3	3632.1	3712.1	3783.6	3852.4	3933.8	4026.4	4126.1	4179.4
12.5°	3368.2	3365.4	3373.8	3408.9	3479.1	3566.1	3665.7	3769.6	3883.3	3999.8	4064.3
15°	3305.1	3289.6	3257.3	3248.9	3286.8	3373.8	3488.9	3616.6	3752.8	3893.1	3973.1
17.5°	3344.4	3317.7	3229.3	3164.7	3159.1	3225.1	3347.2	3490.3	3647.5	3818.7	3918.4
20°	3591.4	3528.2	3310.7	3160.5	3108.6	3140.9	3247.5	3399.1	3584.3	3811.7	3939.4
22.5°	4182.2	4089.6	3627.8	3348.6	3173.1	3133.8	3213.8	3375.2	3591.4	3898.7	4061.5
25°	5042.5	4910.6	4172.4	3817.3	3455.2	3246.1	3264.4	3430.0	3691.0	4100.8	4297.3
27.5°	5721.8	5636.1	4883.9	4478.3	3968.9	3549.3	3428.6	3567.5	3894.5	4432.0	4632.7
30°	6125.9	6074.0	5644.6	5227.8	4624.3	4032.0	3742.9	3825.7	4213.1	4890.9	5056.5
32.5°	6594.7	6563.8	6353.3	5970.2	5331.6	4666.4	4241.1	4211.7	4639.7	5442.5	5518.3
35°	7080.3	7070.4	6946.9	6671.9	6090.9	5502.8	4902.2	4702.9	5104.3	6015.1	5967.4
37.5°	7532.2	7515.3	7443.8	7283.8	6885.2	6401.0	5575.8	5206.7	5605.3	6562.4	6350.5
40°	8364.4	8232.5	7986.9	7866.2	7688.0	7157.5	6110.5	5676.8	6124.5	7084.5	6681.7
42.5°	9379.1	9164.4	8706.8	8541.2	8516.0	7753.9	6475.4	6133.0	6648.0	7602.3	7007.3
45°	10177.6	9975.5	9581.2	9372.1	9464.7	8294.2	6841.7	6619.9	7186.9	8145.5	7342.7
47.5°	11029.5	10712.3	10190.3	10253.4	10455.5	8805.1	7215.0	7143.4	7777.8	8753.2	7759.5
50°	11060.4	10817.6	10588.8	10966.4	11280.7	9275.2	7682.3	7692.2	8500.5	9518.0	8313.9
52.5°	10419.0	10367.1	10730.6	11324.2	11777.5	9647.1	8214.2	8259.1	9425.4	10396.6	8923.0
55°	10194.5	10135.5	10555.1	11199.3	11844.9	9954.5	8791.0	8872.4	10543.9	11322.8	9516.6
57.5°	10741.8	10611.3	10639.4	11140.4	11680.7	10291.3	9419.8	9584.0	11759.3	12132.6	9898.3
60°	12271.5	11992.3	11461.8	11449.1	11769.1	10796.5	10146.8	10347.4	13022.4	12519.9	9749.6
62.5°	14417.4	14138.1	13144.5	12497.5	12449.8	11630.2	11039.3	11092.7	13752.1	11995.1	8841.6
65°	16740.0	16490.2	15380.1	14466.5	14025.8	13011.1	12076.5	11425.3	13513.6	10550.9	7252.9
67.5°	19559.5	19291.5	18337.1	17493.7	17069.8	15239.8	12804.8	11106.7	11999.3	8173.5	5213.7
70°	21531.3	21257.7	20881.5	21565.0	22602.1	18455.0	12898.9	9811.3	8962.3	5432.7	3138.1
72.5°	18958.8	18831.1	19517.4	22395.8	26715.6	20405.8	11659.6	7143.4	5205.3	2884.0	1816.0
73°	17370.2	17342.1	18512.6	21813.4	26745.0	20105.4	11116.5	6639.6	4464.3	2551.4	1660.3
75°	7843.7	8069.7	10635.1	16661.4	23236.5	16567.4	7824.1	3808.9	2522.0	1762.7	1253.3
77.5°	1884.8	1963.4	3327.5	7912.5	14674.2	9873.1	3545.0	1883.4	1612.5	1244.8	915.0
80°	802.8	829.4	1281.3	2923.3	6909.1	3975.9	1633.6	1261.7	1115.7	868.7	641.4
82.5°	446.3	474.4	727.0	1326.2	2788.6	1355.7	996.4	878.5	734.0	523.5	416.8
85°	252.6	268.1	425.2	741.0	1181.7	544.5	596.5	583.8	414.0	269.5	204.9
87.5°	119.3	129.1	204.9	343.8	463.1	213.3	303.1	334.0	259.6	164.2	106.7
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0	4411.0
2.5°	4408.2	4433.4	4462.9	4478.3	4492.4	4509.2	4526.0	4526.0	4528.8	4530.3
5°	4377.3	4429.2	4475.5	4495.2	4499.4	4499.4	4495.2	4472.7	4453.1	4461.5
7.5°	4312.7	4388.5	4427.8	4420.8	4367.5	4305.7	4253.8	4190.6	4158.3	4152.7
10°	4220.1	4307.1	4314.1	4244.0	4112.0	3980.1	3870.6	3764.0	3713.5	3700.8
12.5°	4117.6	4197.6	4152.7	4008.2	3796.3	3604.0	3465.1	3357.0	3309.3	3296.6
15°	4034.8	4089.6	3975.9	3748.5	3481.9	3278.4	3163.3	3083.3	3049.6	3039.8
17.5°	3991.3	4002.6	3794.9	3487.5	3204.0	3034.2	2962.6	2924.7	2912.1	2905.1
20°	4012.4	3933.8	3622.2	3244.7	2976.7	2857.4	2840.5	2830.7	2827.9	2823.7
22.5°	4117.6	3912.7	3463.6	3014.6	2777.4	2725.4	2739.5	2738.1	2735.3	2732.5
25°	4305.7	3931.0	3309.3	2795.6	2610.4	2599.1	2624.4	2624.4	2613.2	2613.2
27.5°	4554.1	3968.9	3136.7	2587.9	2458.8	2460.2	2479.8	2474.2	2461.6	2453.2
30°	4857.2	3992.7	2934.6	2401.3	2317.1	2311.4	2317.1	2293.2	2255.3	2252.5
32.5°	5167.4	3963.3	2700.2	2235.7	2166.9	2154.3	2150.0	2116.4	2072.9	2060.2
35°	5448.1	3855.2	2461.6	2103.7	2023.7	1995.7	2015.3	2004.1	1964.8	1955.0
37.5°	5653.0	3654.5	2246.9	1987.2	1921.3	1914.3	1926.9	1931.1	1884.8	1875.0
40°	5790.5	3382.3	2063.0	1889.0	1901.6	1875.0	1832.9	1803.4	1789.4	1785.2
42.5°	5901.4	3098.8	1908.7	1842.7	1905.8	1828.7	1737.4	1689.7	1715.0	1726.2
45°	6029.1	2822.3	1779.5	1785.2	1884.8	1775.3	1671.5	1625.2	1635.0	1637.8
47.5°	6204.5	2485.5	1640.6	1692.5	1814.6	1738.8	1630.8	1564.8	1518.5	1497.5
50°	6447.3	2086.9	1496.0	1588.7	1745.9	1712.2	1567.6	1497.5	1411.8	1392.2
52.5°	6615.7	1715.0	1376.8	1501.7	1684.1	1658.8	1517.1	1425.9	1336.1	1319.2
55°	6524.5	1424.5	1272.9	1404.8	1602.7	1592.9	1475.0	1352.9	1282.7	1268.7
57.5°	6068.4	1240.6	1192.9	1313.6	1503.1	1536.7	1418.9	1291.1	1240.6	1230.8
60°	5198.3	1125.5	1142.4	1251.9	1421.7	1480.6	1362.7	1257.5	1223.8	1216.8
62.5°	4033.4	1048.4	1104.5	1206.9	1358.5	1441.3	1331.8	1253.3	1240.6	1232.2
65°	2889.6	986.6	1063.8	1162.0	1301.0	1404.8	1320.6	1247.6	1250.5	1243.4
67.5°	1963.4	931.9	1014.7	1111.5	1244.8	1372.5	1305.2	1228.0	1263.1	1254.7
70°	1374.0	878.5	957.1	1047.0	1174.7	1327.6	1277.1	1198.5	1195.7	1162.0
72.5°	1072.2	808.4	878.5	957.1	1084.8	1264.5	1221.0	1132.6	1086.2	1051.2
73°	1023.1	791.5	858.9	937.5	1065.2	1249.0	1205.5	1114.3	1062.4	1030.1
75°	846.3	718.6	780.3	850.5	981.0	1176.1	1129.8	1031.5	965.6	945.9
77.5°	665.2	614.7	673.6	736.8	864.5	1069.4	1017.5	923.5	887.0	870.1
80°	492.6	509.4	561.4	617.5	749.4	955.7	909.4	815.4	978.2	937.5
82.5°	346.6	385.9	433.7	484.2	628.7	844.9	788.7	691.9	715.7	595.1
85°	204.9	252.6	297.5	341.0	453.3	700.3	651.2	551.5	451.9	430.9
87.5°	119.3	140.3	153.0	197.9	311.6	527.7	458.9	408.4	234.4	158.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)