

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: P269433

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269433  
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-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 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: 31115.9 lumens  
Efficiency: N/A  
Efficacy: 93.4 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 - G5

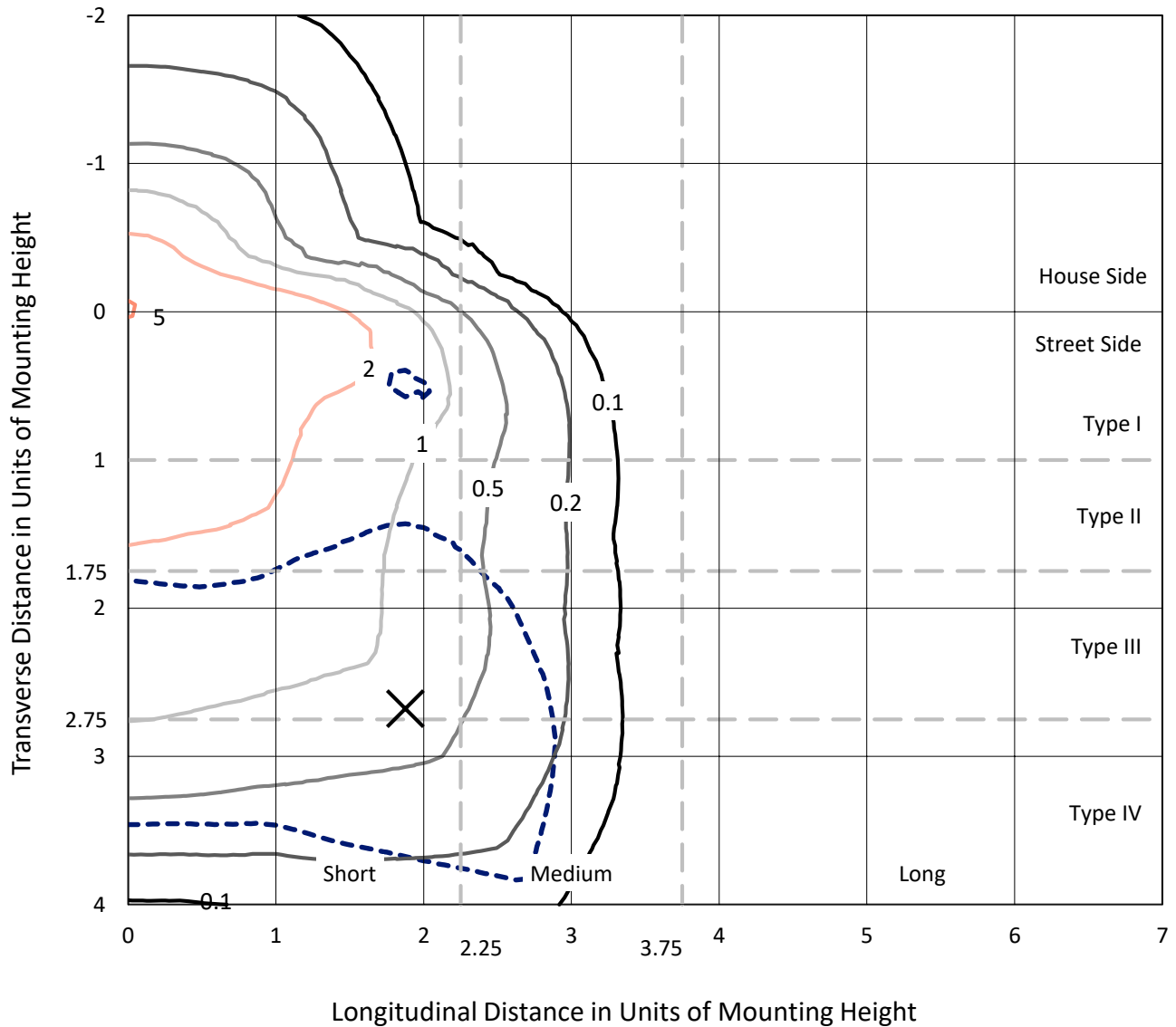
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

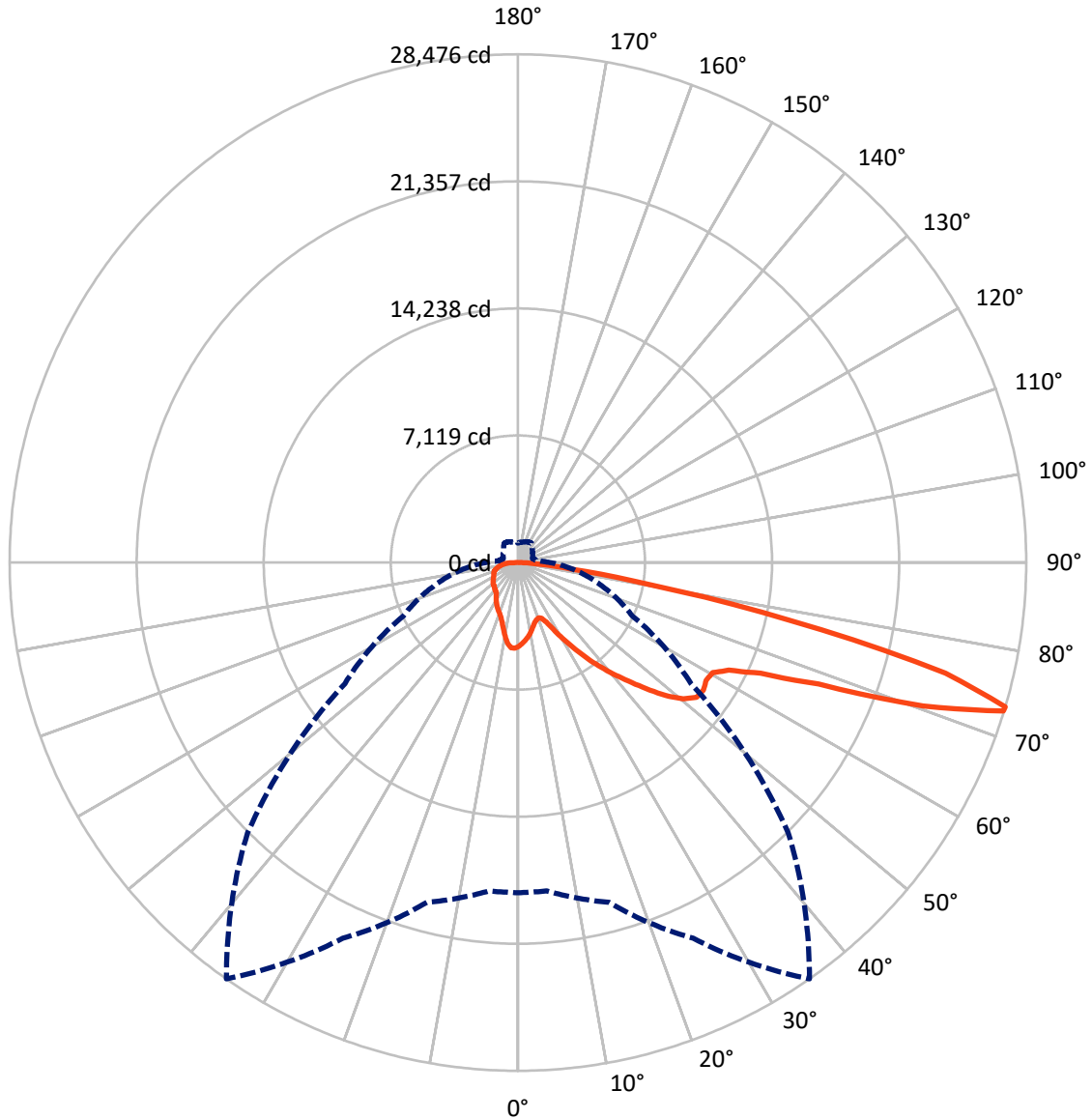
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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	5934.7	0.0	5934.7
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	25181.2	0.0	25181.2
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	31115.9	0.0	31115.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.2	1.4
10°-20°	1061.1	3.4
20°-30°	1715.5	5.5
30°-40°	2876.6	9.2
40°-50°	4434.1	14.3
50°-60°	5948.9	19.1
60°-70°	7925.1	25.5
70°-80°	6044.4	19.4
80°-90°	685.1	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°	31115.9	100.0
0°-180°	31115.9	100.0

**Coefficient of Utilization**



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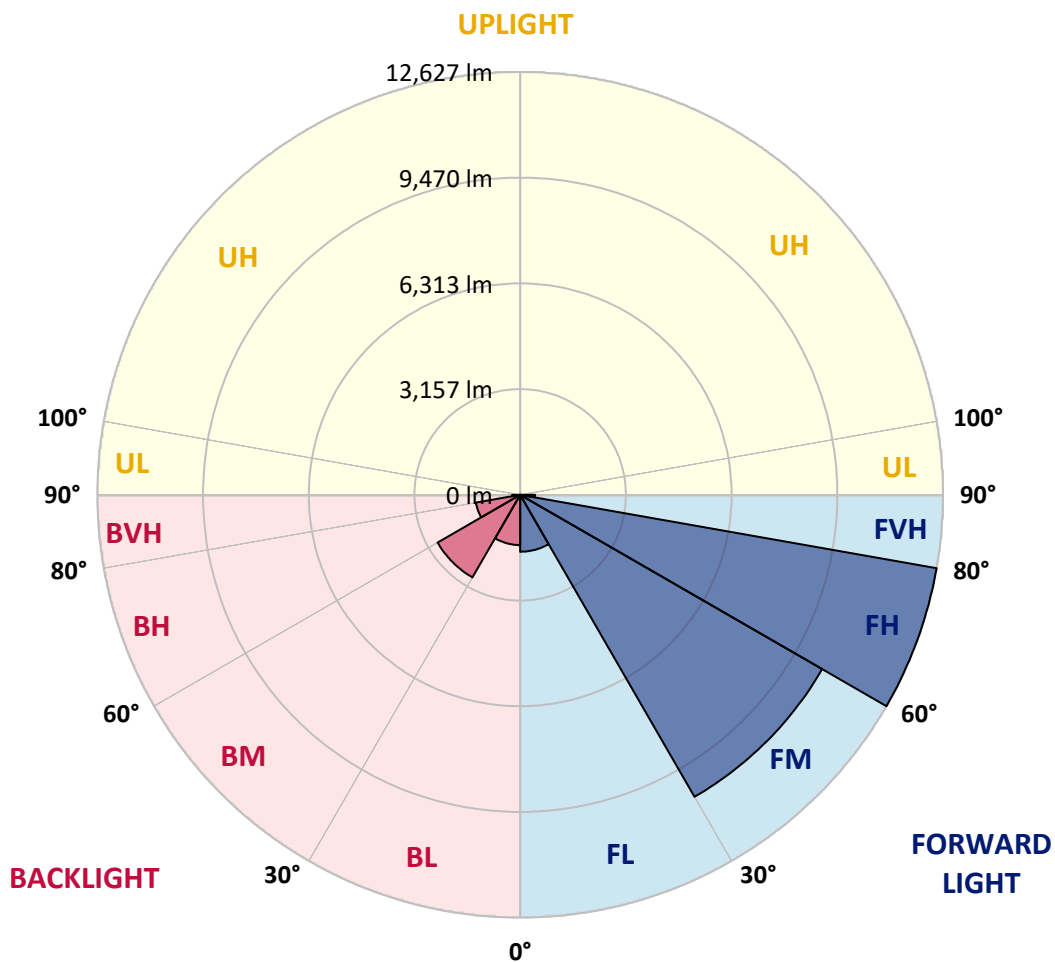
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1700.0	5.5			
FM	(30°-60°)	10411.6	33.5			
FH	(60°-80°)	12626.8	40.6			G5
FVH	(80°-90°)	442.8	1.4			G3/500
BL	(0°-30°)	1501.7	4.8	B3/2500		
BM	(30°-60°)	2848.0	9.2	B3/5000		
BH	(60°-80°)	1342.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	242.3	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°	4696.3	4696.3	4696.3	4696.3	4696.3	4696.3	4696.3	4696.3	4696.3	4696.3	4696.3
2.5°	4511.1	4520.0	4509.6	4523.1	4545.5	4569.4	4585.8	4609.7	4636.6	4673.9	4683.0
5°	4298.8	4312.4	4312.4	4336.3	4379.5	4418.5	4454.2	4493.1	4549.9	4614.1	4639.6
7.5°	4065.8	4073.3	4086.7	4122.6	4185.4	4240.5	4291.5	4354.2	4431.9	4517.0	4561.9
10°	3784.9	3795.2	3816.3	3867.1	3952.3	4028.4	4101.7	4188.3	4286.9	4393.0	4449.8
12.5°	3586.2	3583.2	3592.1	3629.5	3704.3	3796.9	3903.0	4013.4	4134.4	4258.5	4327.2
15°	3518.9	3502.5	3468.0	3459.2	3499.4	3592.1	3714.6	3850.7	3995.7	4145.0	4230.2
17.5°	3560.7	3532.3	3438.3	3369.5	3363.6	3433.7	3563.8	3716.2	3883.6	4065.8	4171.9
20°	3823.7	3756.5	3524.9	3365.1	3309.7	3344.1	3457.7	3619.0	3816.3	4058.4	4194.2
22.5°	4452.8	4354.2	3862.6	3565.3	3378.4	3336.7	3421.7	3593.6	3823.7	4151.0	4324.4
25°	5368.8	5228.2	4442.4	4064.3	3678.7	3456.1	3475.6	3651.9	3929.8	4366.1	4575.3
27.5°	6091.9	6000.8	5199.8	4768.1	4225.6	3778.9	3650.4	3798.4	4146.4	4718.7	4932.5
30°	6522.4	6467.0	6009.8	5566.0	4923.5	4292.9	3985.2	4073.3	4485.6	5207.4	5383.7
32.5°	7021.4	6988.5	6764.3	6356.4	5676.6	4968.3	4515.6	4484.2	4939.9	5794.5	5875.4
35°	7538.3	7527.9	7396.5	7103.5	6485.0	5858.8	5219.3	5007.2	5434.4	6404.2	6353.4
37.5°	8019.4	8001.7	7925.3	7755.1	7330.7	6815.3	5936.5	5543.6	5967.9	6986.9	6761.5
40°	8905.5	8765.1	8503.6	8375.2	8185.4	7620.5	6505.9	6044.2	6520.7	7542.9	7113.9
42.5°	9985.9	9757.3	9270.1	9093.9	9067.0	8255.7	6894.3	6529.8	7078.1	8094.3	7460.7
45°	10836.2	10621.0	10201.2	9978.5	10077.0	8830.9	7284.4	7048.3	7651.9	8672.4	7817.8
47.5°	11743.2	11405.4	10849.5	10916.8	11131.9	9374.8	7681.9	7605.6	8281.0	9319.5	8261.6
50°	11776.1	11517.4	11274.0	11675.9	12010.6	9875.3	8179.3	8189.8	9050.6	10133.9	8851.8
52.5°	11093.1	11037.8	11424.9	12057.0	12539.6	10271.3	8745.7	8793.5	10035.2	11069.3	9500.3
55°	10854.1	10791.2	11238.1	11923.9	12611.2	10598.6	9359.8	9446.4	11226.1	12055.4	10132.3
57.5°	11436.9	11297.9	11327.7	11861.2	12436.5	10957.2	10029.2	10204.0	12520.1	12917.5	10538.7
60°	13065.5	12768.1	12203.4	12189.9	12530.5	11495.2	10803.2	11017.0	13864.9	13329.9	10380.5
62.5°	15350.1	15052.9	13995.0	13306.1	13255.3	12382.6	11753.7	11810.3	14642.0	12771.2	9413.6
65°	17823.1	17557.2	16375.3	15402.5	14933.3	13853.0	12857.8	12164.5	14388.0	11233.7	7722.2
67.5°	20825.0	20539.7	19523.6	18625.5	18174.2	16225.8	13633.3	11825.3	12775.7	8702.4	5551.0
70°	22924.4	22633.1	22232.6	22960.3	24064.5	19649.0	13733.5	10446.1	9542.2	5784.1	3341.1
72.5°	20185.5	20049.5	20780.2	23844.9	28444.1	21726.0	12414.0	7605.6	5542.2	3070.6	1933.5
73°	18494.0	18464.1	19710.3	23224.8	28475.6	21406.3	11835.8	7069.2	4753.1	2716.6	1767.7
75°	8351.3	8591.7	11323.2	17739.5	24740.0	17639.4	8330.3	4055.3	2685.2	1876.7	1334.3
77.5°	2006.8	2090.4	3542.8	8424.5	15623.6	10511.8	3774.4	2005.2	1716.9	1325.4	974.2
80°	854.6	883.2	1364.3	3112.4	7356.1	4233.2	1739.3	1343.3	1187.9	925.0	682.8
82.5°	475.2	505.0	774.0	1412.0	2969.0	1443.4	1060.9	935.3	781.4	557.4	443.9
85°	269.0	285.4	452.7	788.9	1258.2	579.8	635.0	621.5	440.8	286.9	218.2
87.5°	127.0	137.5	218.2	366.1	493.1	227.1	322.8	355.5	276.4	174.8	113.5
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°	4696.3	4696.3	4696.3	4696.3	4696.3	4696.3	4696.3	4696.3	4696.3	4696.3
2.5°	4693.4	4720.2	4751.7	4768.1	4783.0	4800.9	4818.9	4818.9	4821.9	4823.4
5°	4660.4	4715.8	4765.1	4786.0	4790.5	4790.5	4786.0	4762.2	4741.2	4750.1
7.5°	4591.7	4672.4	4714.2	4706.8	4650.0	4584.3	4529.1	4461.7	4427.3	4421.4
10°	4493.1	4585.8	4593.3	4518.6	4378.1	4237.7	4121.1	4007.5	3953.7	3940.2
12.5°	4384.1	4469.2	4421.4	4267.5	4041.8	3837.2	3689.2	3574.1	3523.4	3509.9
15°	4296.0	4354.2	4233.2	3991.1	3707.1	3490.5	3367.9	3282.9	3247.0	3236.6
17.5°	4249.6	4261.5	4040.3	3713.1	3411.4	3230.6	3154.3	3114.0	3100.5	3093.0
20°	4272.0	4188.3	3856.7	3454.6	3169.3	3042.2	3024.4	3013.9	3010.8	3006.4
22.5°	4384.1	4165.9	3687.7	3209.6	2957.1	2901.7	2916.7	2915.2	2912.2	2909.3
25°	4584.3	4185.4	3523.4	2976.5	2779.3	2767.3	2794.2	2794.2	2782.2	2782.2
27.5°	4848.8	4225.6	3339.5	2755.3	2617.9	2619.4	2640.3	2634.3	2620.8	2611.9
30°	5171.5	4251.0	3124.5	2556.7	2466.9	2460.9	2466.9	2441.6	2401.2	2398.3
32.5°	5501.8	4219.7	2874.8	2380.2	2307.0	2293.6	2289.2	2253.3	2207.0	2193.5
35°	5800.5	4104.6	2620.8	2239.8	2154.7	2124.9	2145.7	2133.7	2092.0	2081.5
37.5°	6018.7	3891.0	2392.2	2115.8	2045.6	2038.2	2051.5	2056.1	2006.8	1996.4
40°	6165.2	3601.0	2196.5	2011.2	2024.7	1996.4	1951.5	1920.0	1905.1	1900.6
42.5°	6283.3	3299.2	2032.1	1961.9	2029.1	1946.9	1849.9	1799.0	1826.0	1837.9
45°	6419.2	3004.9	1894.6	1900.6	2006.8	1890.3	1779.6	1730.3	1740.7	1743.8
47.5°	6606.0	2646.2	1746.8	1802.0	1932.1	1851.3	1736.3	1666.0	1616.8	1594.3
50°	6864.5	2221.9	1592.9	1691.5	1858.9	1823.0	1669.1	1594.3	1503.3	1482.3
52.5°	7043.8	1826.0	1465.9	1598.9	1793.0	1766.2	1615.2	1518.1	1422.5	1404.6
55°	6946.7	1516.7	1355.3	1495.7	1706.4	1695.9	1570.4	1440.4	1365.8	1350.8
57.5°	6461.0	1320.9	1270.2	1398.7	1600.3	1636.3	1510.7	1374.6	1320.9	1310.4
60°	5534.5	1198.3	1216.3	1332.8	1513.6	1576.4	1450.9	1338.8	1303.0	1295.4
62.5°	4294.3	1116.1	1175.9	1285.0	1446.5	1534.6	1418.1	1334.3	1320.9	1312.0
65°	3076.7	1050.5	1132.7	1237.2	1385.1	1495.7	1406.0	1328.4	1331.4	1323.9
67.5°	2090.4	992.2	1080.3	1183.4	1325.4	1461.4	1389.7	1307.5	1344.9	1335.8
70°	1462.8	935.3	1019.0	1114.6	1250.7	1413.6	1359.8	1276.0	1273.1	1237.2
72.5°	1141.6	860.7	935.3	1019.0	1155.0	1346.3	1299.9	1205.9	1156.6	1119.2
73°	<i>1089.3</i>	<i>842.7</i>	<i>914.5</i>	<i>998.1</i>	<i>1134.1</i>	<i>1329.9</i>	<i>1283.6</i>	<i>1186.4</i>	<i>1131.1</i>	<i>1096.8</i>
75°	901.0	765.0	830.8	905.5	1044.5	1252.1	1202.8	1098.3	1028.0	1007.1
77.5°	708.3	654.4	717.2	784.5	920.5	1138.6	1083.4	983.3	944.4	926.4
80°	524.5	542.3	597.7	657.5	798.0	1017.6	968.3	868.1	1041.5	998.1
82.5°	369.1	411.0	461.6	515.4	669.3	899.6	839.7	736.7	762.0	633.6
85°	218.2	269.0	316.8	363.1	482.6	745.7	693.3	587.2	481.1	458.8
87.5°	127.0	149.4	162.9	210.7	331.7	561.8	488.6	434.8	249.5	168.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)