

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: P317871

Luminaire Tested: **GLEON-SA7A-827-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317871  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7A-827-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24776 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

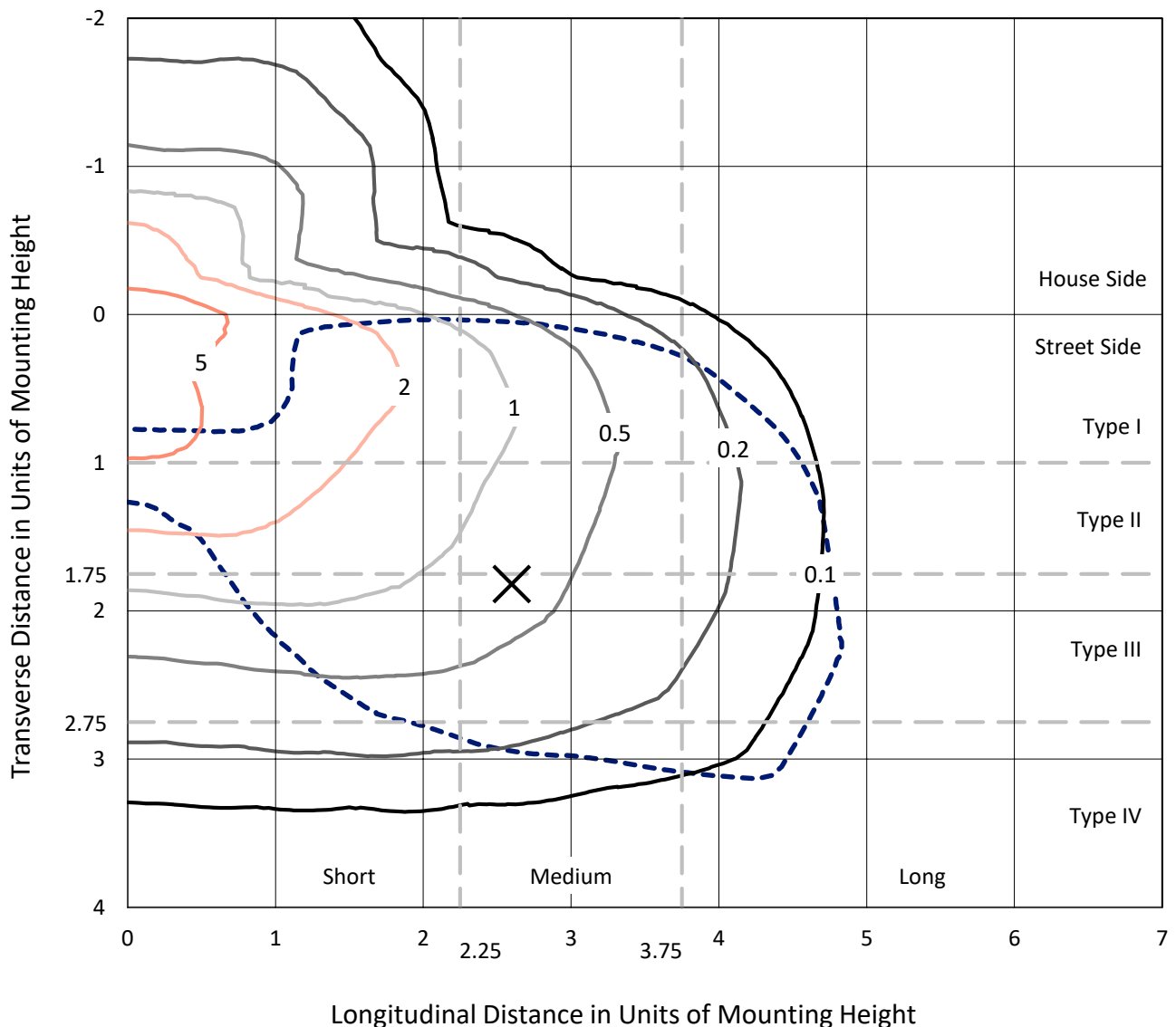
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

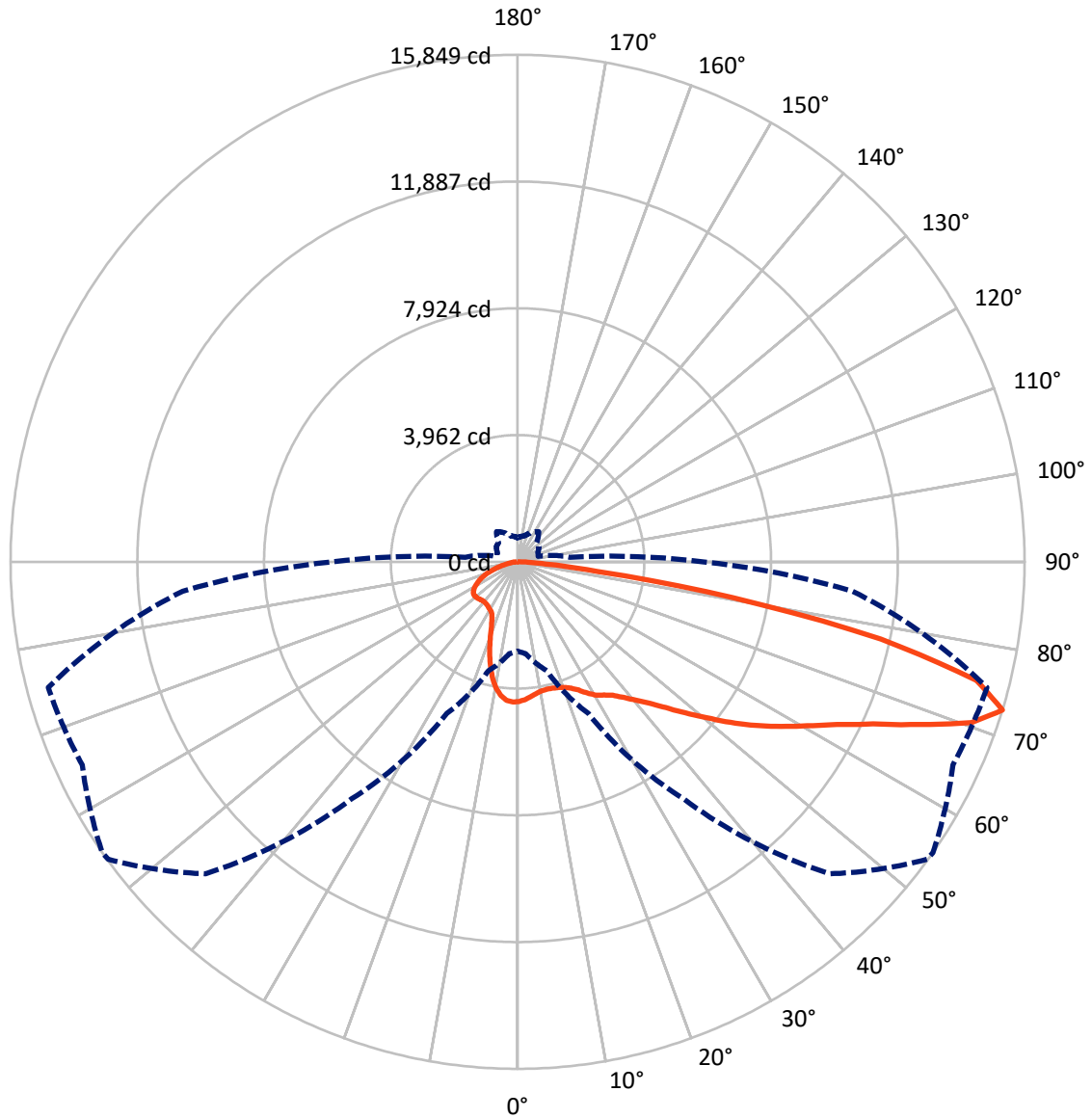
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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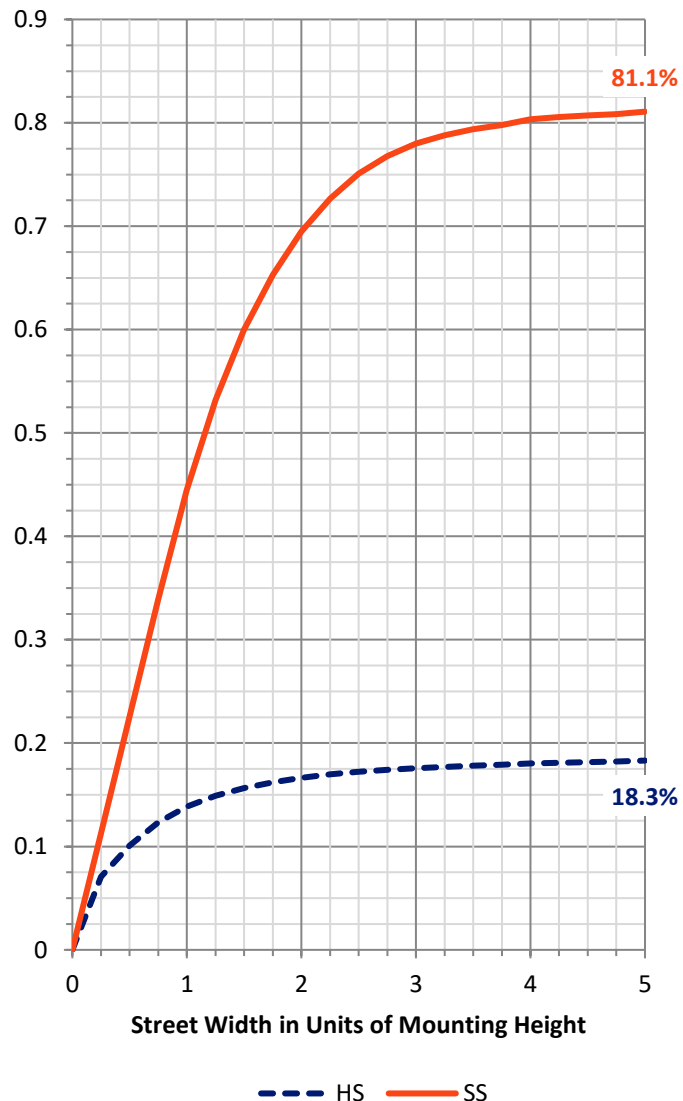
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4605.0	0.0	4605.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	20170.9	0.0	20170.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	24776.0	0.0	24776.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.4	1.6
10°-20°	1052.8	4.2
20°-30°	1735.8	7.0
30°-40°	2567.6	10.4
40°-50°	3583.9	14.5
50°-60°	4666.3	18.8
60°-70°	5734.8	23.1
70°-80°	4495.4	18.1
80°-90°	544.0	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°	24776.0	100.0
0°-180°	24776.0	100.0

**Coefficient of Utilization**

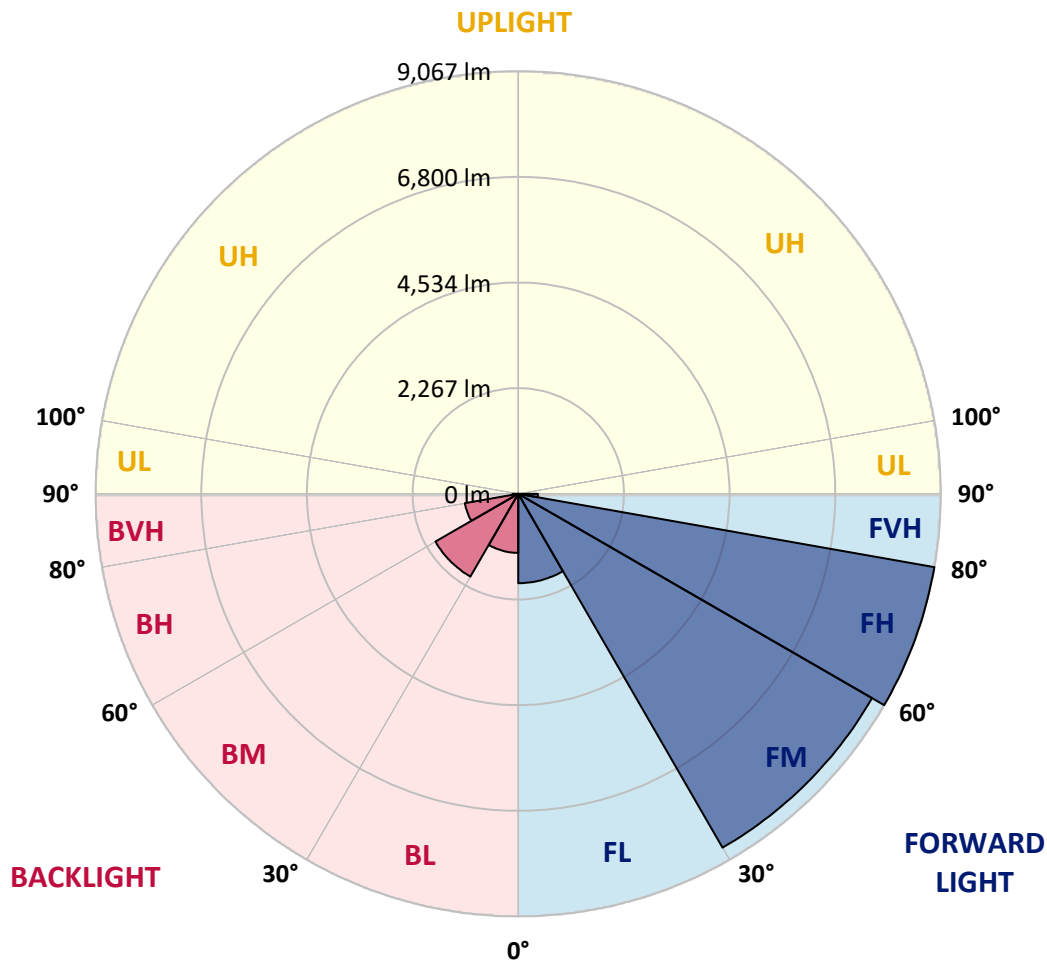


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1916.9	7.7			
FM (30°-60°)	8766.2	35.4			
FH (60°-80°)	9067.2	36.6			G4/12000
FVH (80°-90°)	420.6	1.7			G3/500
BL (0°-30°)	1267.0	5.1	B3/2500		
BM (30°-60°)	2051.6	8.3	B2/2500		
BH (60°-80°)	1163.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	123.4	0.5			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0
2.5°	4227.7	4217.6	4230.2	4247.8	4267.0	4293.0	4308.0	4314.7	4340.7	4350.7	4372.5
5°	4031.9	4026.9	4047.8	4077.9	4120.6	4180.8	4229.4	4238.6	4307.2	4355.7	4400.1
7.5°	3889.6	3889.6	3913.9	3949.9	3997.6	4078.7	4147.4	4159.9	4276.2	4380.8	4462.8
10°	3776.6	3780.8	3809.3	3852.0	3908.0	3994.2	4085.4	4099.7	4267.9	4439.4	4570.0
12.5°	3701.3	3711.4	3737.3	3775.8	3845.3	3949.9	4065.3	4084.6	4285.4	4523.1	4698.8
15°	3749.0	3765.8	3768.3	3784.2	3822.7	3936.5	4077.1	4097.1	4323.1	4608.5	4845.3
17.5°	3958.2	3964.1	3938.1	3904.7	3886.3	3959.1	4112.2	4133.1	4368.3	4693.0	4985.9
20°	4276.2	4272.9	4216.8	4126.4	4032.7	4044.4	4169.9	4191.7	4429.4	4767.5	5126.5
22.5°	4677.9	4666.2	4580.0	4413.5	4253.6	4186.7	4271.2	4289.6	4521.4	4873.7	5277.1
25°	5164.9	5139.0	5025.2	4801.8	4566.6	4394.2	4423.5	4441.1	4655.3	4992.6	5415.2
27.5°	5678.8	5652.8	5508.0	5237.8	4924.8	4656.2	4633.6	4648.6	4807.6	5080.4	5517.3
30°	6216.0	6188.4	6056.2	5753.2	5304.7	4927.3	4829.4	4835.2	4914.7	5128.1	5600.9
32.5°	6755.8	6729.8	6581.7	6230.2	5717.3	5218.5	4970.8	4963.3	4979.2	5177.5	5695.5
35°	7303.1	7313.1	7139.9	6750.7	6174.2	5542.4	5138.2	5122.3	5087.1	5278.8	5829.4
37.5°	7888.8	7882.2	7657.9	7251.2	6652.0	5893.8	5378.3	5375.8	5254.5	5470.4	6039.4
40°	8280.5	8284.7	8148.3	7763.3	7134.9	6283.0	5686.3	5680.4	5521.4	5757.4	6314.8
42.5°	8433.6	8461.2	8496.4	8252.0	7640.3	6734.0	6053.7	6045.3	5893.8	6169.1	6638.6
45°	8444.5	8499.7	8717.3	8686.3	8152.4	7250.3	6523.1	6499.7	6390.9	6716.4	7025.2
47.5°	8350.8	8407.7	8769.2	8944.9	8610.2	7795.1	7072.1	7053.7	6960.0	7401.0	7443.6
50°	8145.8	8200.1	8662.1	9071.3	8986.8	8319.0	7704.7	7656.2	7606.0	8191.8	7922.3
52.5°	7761.6	7866.3	8519.0	9101.4	9211.9	8784.3	8370.0	8338.2	8365.8	9026.1	8401.8
55°	6852.0	6969.2	8149.9	9076.3	9378.4	9175.1	9035.3	9033.6	9176.7	9901.4	8916.5
57.5°	6342.4	6425.2	7398.5	9033.6	9575.9	9563.4	9693.9	9709.8	9988.5	10854.6	9455.4
60°	6054.5	6141.5	7017.7	8875.5	9882.2	10065.5	10365.9	10397.7	10813.6	11909.8	10103.9
62.5°	5792.6	5888.0	6781.7	8553.3	10242.9	10783.5	11170.9	11199.4	11687.2	12994.4	10730.7
65°	5344.9	5452.8	6436.1	8341.6	10570.9	11719.9	12194.4	12213.6	12690.6	14130.8	11210.2
67.5°	4712.2	4811.0	5784.2	7873.8	10813.6	12857.1	13555.1	13565.9	13685.6	14933.3	11455.4
70°	3973.3	4011.0	4855.3	6908.1	10526.5	13920.8	15046.3	15048.8	14592.7	15447.1	11415.3
72.5°	2791.7	2880.4	3524.7	5229.4	9046.2	13791.0	15820.4	15848.8	15014.5	15187.7	10503.1
75°	1712.2	1805.9	2210.9	3169.1	5739.0	10846.2	14617.0	14814.5	14223.7	13541.7	8580.1
77.5°	1144.8	1179.9	1442.7	1847.7	2600.0	6240.3	11237.9	11609.4	11816.1	9875.5	5487.1
80°	638.5	705.5	956.5	1148.1	1156.5	2479.5	6738.2	6825.2	6574.2	3932.3	1692.9
82.5°	338.1	374.9	638.5	674.5	631.0	830.1	2511.3	2513.9	2100.5	1054.4	502.9
85°	261.9	292.9	437.7	411.7	322.2	368.2	828.5	873.7	714.7	431.8	164.0
87.5°	130.5	162.3	297.1	261.1	126.4	105.4	296.2	316.3	282.0	169.0	59.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0	4370.0
2.5°	4380.8	4388.4	4397.6	4387.5	4384.2	4370.8	4348.2	4343.2	4331.5	4332.3	4339.0
5°	4419.3	4431.9	4426.9	4388.4	4342.3	4277.9	4211.0	4154.0	4116.4	4113.9	4111.4
7.5°	4493.0	4501.3	4462.0	4352.4	4223.5	4074.6	3934.0	3810.9	3736.5	3718.1	3713.9
10°	4608.5	4606.8	4498.8	4277.9	4021.0	3754.9	3528.9	3358.2	3258.6	3229.3	3221.8
12.5°	4737.3	4718.1	4511.4	4142.3	3734.8	3365.8	3079.6	2889.6	2785.8	2752.4	2744.0
15°	4870.4	4822.7	4480.4	3939.8	3383.3	2946.5	2646.1	2470.3	2414.3	2395.9	2392.5
17.5°	4994.2	4902.2	4391.7	3665.3	2982.5	2528.9	2294.6	2224.3	2237.7	2262.0	2262.8
20°	5115.6	4955.7	4249.4	3318.9	2559.9	2185.0	2105.5	2157.4	2221.0	2270.3	2277.0
22.5°	5235.2	4993.4	4066.2	2918.9	2181.6	1991.7	2047.7	2142.3	2215.1	2268.7	2277.9
25°	5335.7	5002.6	3813.5	2492.1	1918.9	1918.9	2020.1	2109.7	2181.6	2234.3	2243.6
27.5°	5372.5	4940.7	3457.0	2097.1	1786.6	1885.4	1981.6	2056.1	2117.2	2173.3	2183.3
30°	5386.7	4826.0	3045.2	1779.9	1732.2	1849.4	1929.7	1993.3	2051.1	2103.8	2113.0
32.5°	5389.2	4688.0	2608.4	1600.0	1694.6	1811.7	1865.3	1921.4	1983.3	2004.2	2007.6
35°	5405.1	4524.8	2148.2	1508.0	1659.4	1776.6	1819.3	1859.4	1759.0	1766.6	1773.3
37.5°	5451.1	4363.3	1763.2	1456.1	1636.8	1758.2	1809.2	1663.6	1585.0	1566.6	1564.0
40°	5537.3	4190.9	1477.9	1414.3	1628.5	1767.4	1744.8	1553.2	1417.6	1316.3	1301.3
42.5°	5657.0	4005.1	1295.4	1386.6	1634.3	1811.7	1655.3	1446.9	1221.8	1156.5	1148.1
45°	5791.7	3810.1	1196.7	1367.4	1654.4	1846.1	1636.8	1305.5	1130.6	1081.2	1077.0
47.5°	5922.3	3571.6	1145.6	1359.0	1682.0	1818.4	1559.0	1261.9	1087.0	1061.1	1063.6
50°	6072.1	3356.5	1114.7	1349.8	1706.3	1800.9	1471.2	1239.4	1070.3	1102.1	1135.6
52.5°	6198.4	3133.9	1087.0	1331.4	1715.5	1769.9	1448.6	1243.5	1070.3	1131.4	1163.2
55°	6348.2	2965.7	1055.2	1292.9	1697.9	1682.0	1432.7	1268.6	1082.9	1044.4	1047.7
57.5°	6541.5	2910.5	1020.1	1232.7	1639.4	1554.0	1425.1	1292.9	1075.3	1051.1	1059.4
60°	6809.3	2969.1	1005.9	1154.0	1548.1	1453.6	1426.0	1280.4	1022.6	980.8	981.6
62.5°	7064.6	3034.4	1005.0	1104.6	1436.0	1364.0	1406.7	1239.4	995.8	971.6	980.8
65°	7148.2	2968.3	964.9	1049.4	1309.6	1256.9	1371.6	1195.8	975.7	938.9	937.3
67.5°	7036.1	2763.2	883.7	959.8	1164.9	1132.2	1325.5	1144.0	944.0	913.8	908.8
70°	6703.0	2305.5	783.3	841.9	1000.0	991.6	1252.7	1083.7	901.3	875.3	853.6
72.5°	5806.8	1642.7	660.3	700.4	814.2	841.0	1152.3	1005.0	841.0	785.0	751.5
75°	4769.1	1215.9	542.3	550.6	618.4	691.2	1014.2	913.0	769.9	674.5	648.5
77.5°	2920.6	743.9	431.8	435.2	443.5	551.5	835.2	810.1	679.5	562.4	543.9
80°	945.6	405.9	312.1	328.0	302.9	404.2	646.0	689.6	583.3	470.3	450.2
82.5°	359.8	236.8	210.9	221.8	210.0	271.1	471.1	552.3	477.8	386.6	314.7
85°	174.1	133.9	124.7	139.8	129.7	138.9	301.3	406.7	362.3	251.9	234.3
87.5°	61.9	59.4	47.7	64.4	55.2	49.4	92.1	205.0	239.3	173.2	154.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)