

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: P268971

Luminaire Tested: **GLEON-AF-01-LED-E1-5WQ-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268971  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-5WQ-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4608 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 44  
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

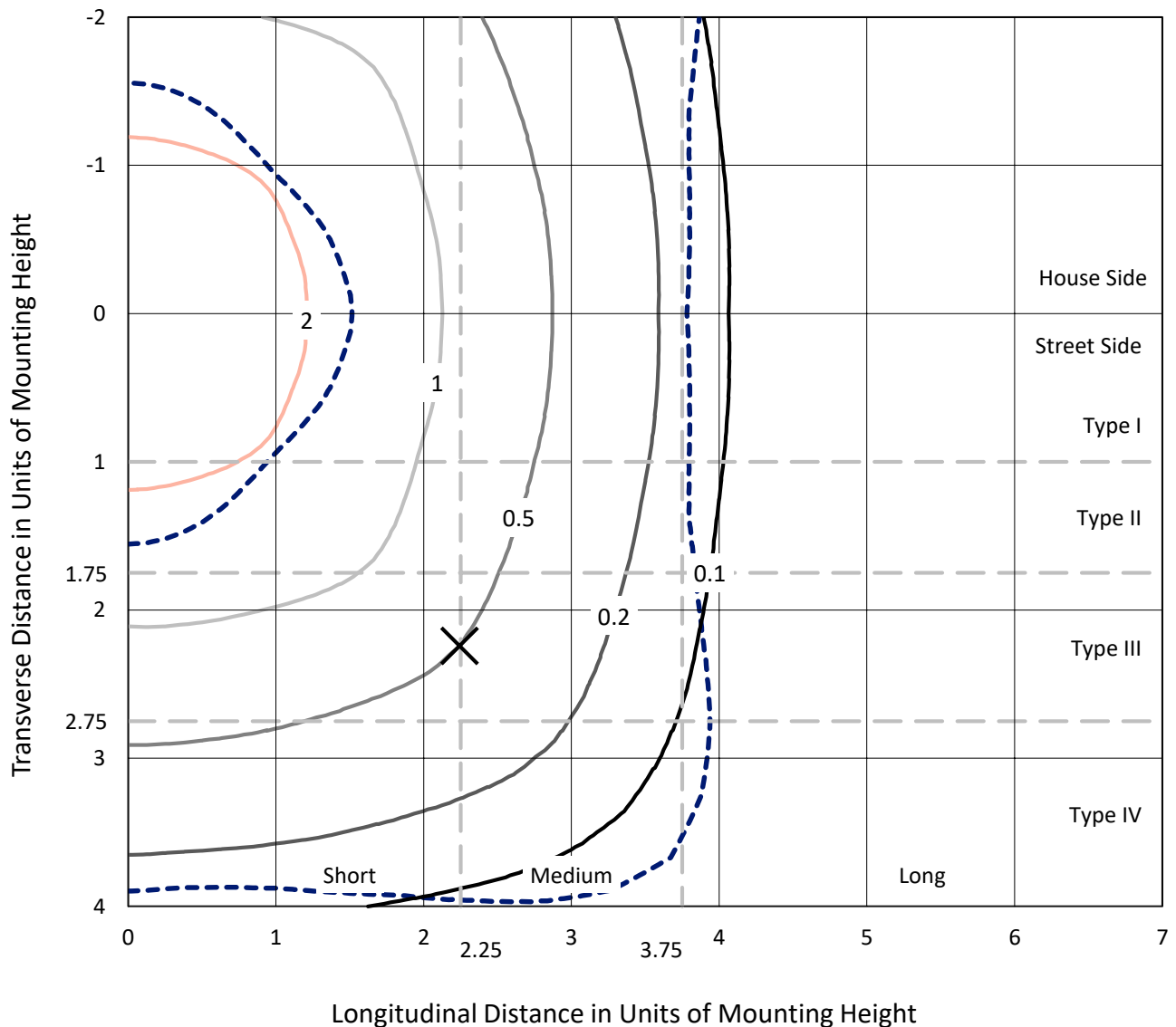


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

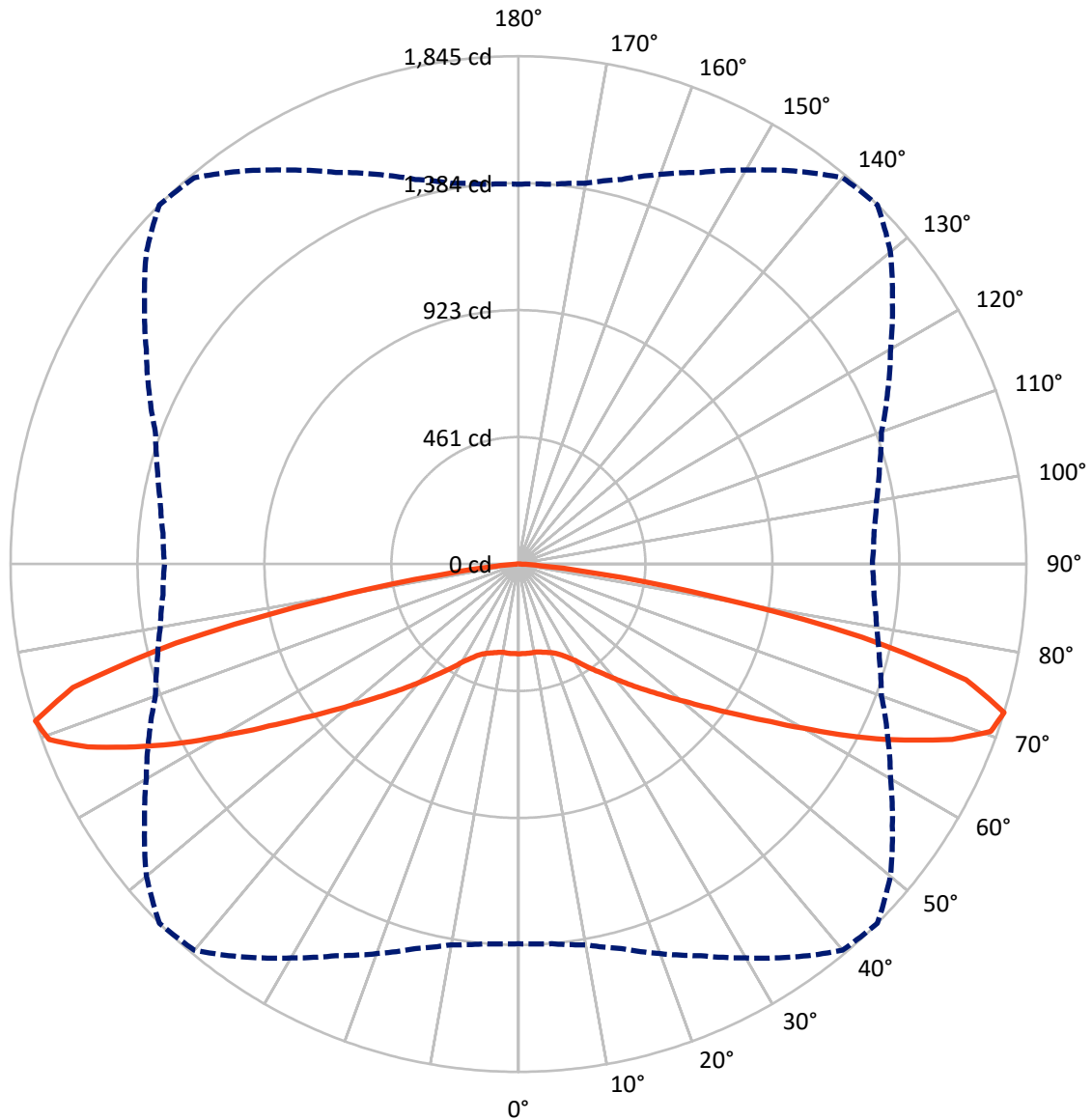


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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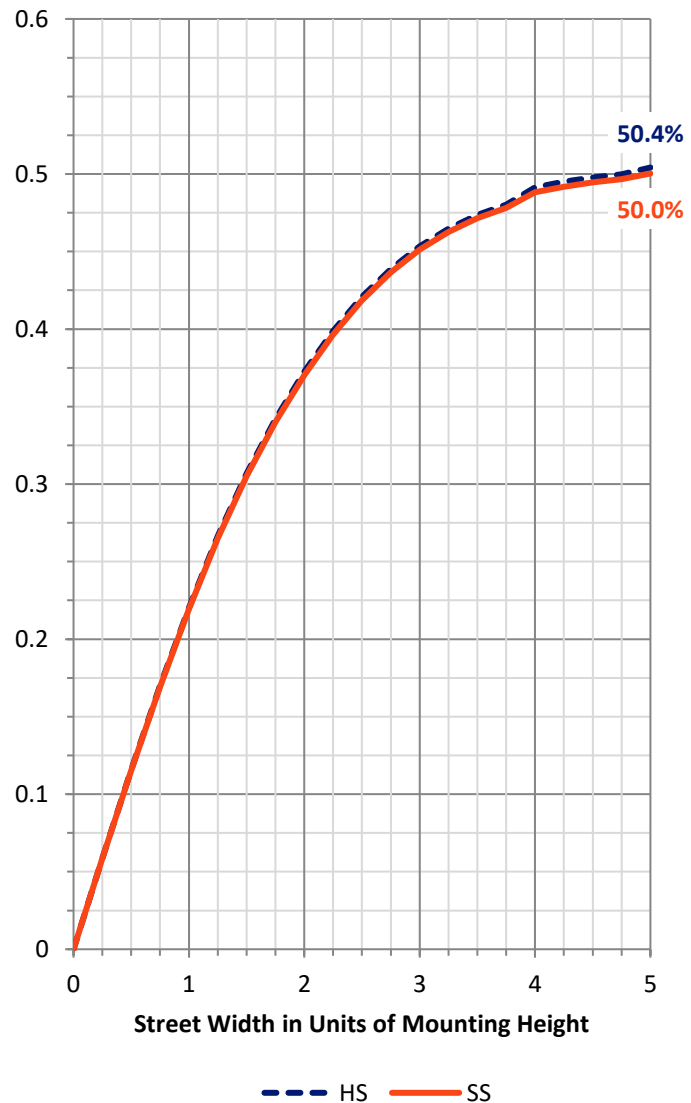
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2304.0	0.0	2304.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2304.0	0.0	2304.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4608.0	0.0	4608.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.2	0.7
10°-20°	94.6	2.1
20°-30°	172.9	3.8
30°-40°	298.2	6.5
40°-50°	509.7	11.1
50°-60°	826.2	17.9
60°-70°	1370.6	29.7
70°-80°	1207.2	26.2
80°-90°	97.3	2.1
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°	4608.0	100.0
0°-180°	4608.0	100.0



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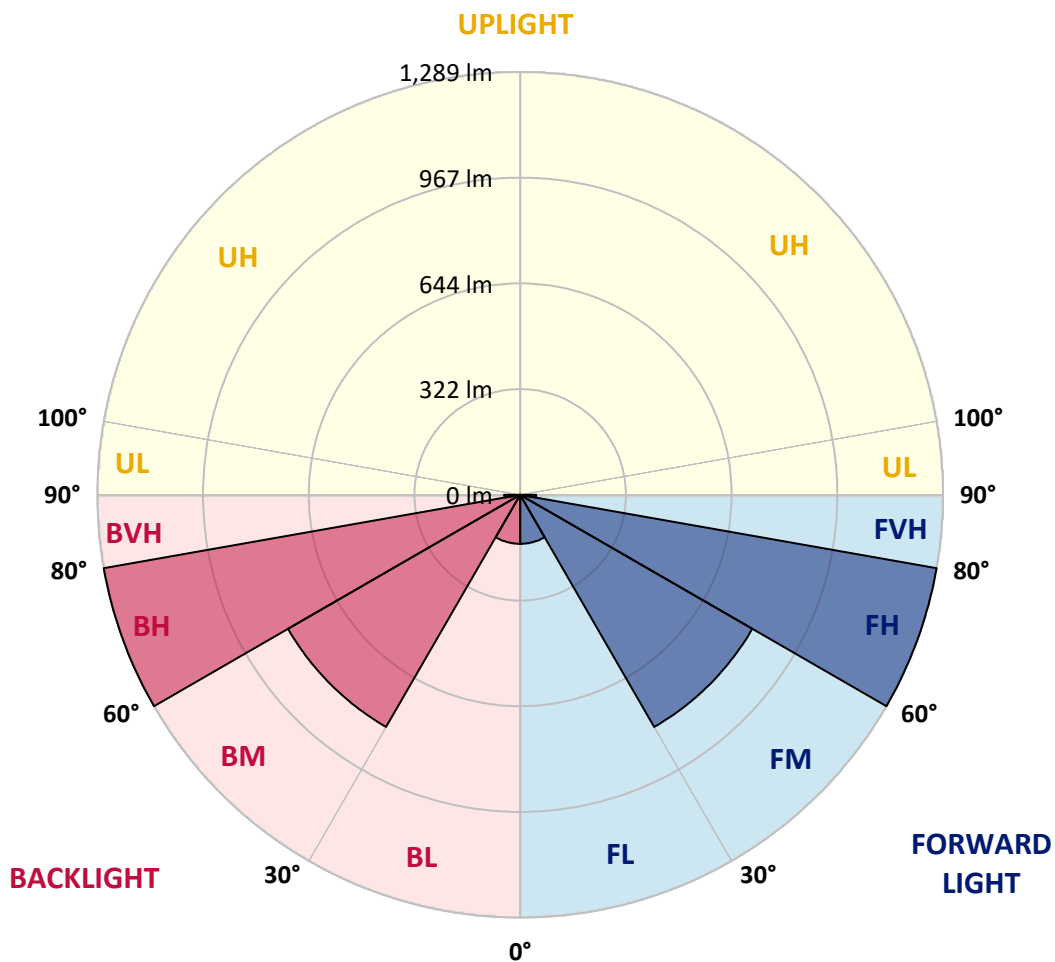
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	149.4	3.2			
FM	(30°-60°)	817.1	17.7			
FH	(60°-80°)	1288.9	28.0			G1/1800
FVH	(80°-90°)	48.7	1.1			G1/100
BL	(0°-30°)	149.4	3.2	B1/500		
BM	(30°-60°)	817.1	17.7	B1/1000		
BH	(60°-80°)	1288.9	28.0	B3/2500		G1/1800
BVH	(80°-90°)	48.7	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4
2.5°	326.4	326.5	326.8	326.5	326.5	326.4	326.2	326.4	326.2	325.6	325.8
5°	327.4	327.8	327.8	327.4	327.6	327.4	327.0	327.2	326.8	326.2	326.2
7.5°	328.6	328.9	328.9	328.4	328.6	328.2	327.8	327.6	327.2	326.4	325.6
10°	330.5	330.8	330.5	330.1	330.1	329.5	328.4	328.1	327.2	325.8	325.2
12.5°	332.6	332.9	332.6	332.3	332.1	330.9	330.1	329.5	328.9	327.8	326.8
15°	335.6	336.1	335.6	334.8	334.1	333.4	332.9	333.1	333.4	332.5	331.4
17.5°	341.1	341.4	340.6	338.8	337.9	337.1	337.1	337.6	338.1	337.8	336.7
20°	351.2	350.6	349.1	346.8	345.8	344.3	344.1	344.3	344.3	344.1	343.2
22.5°	364.0	363.5	361.6	358.7	357.2	356.4	355.1	354.0	353.8	353.2	352.3
25°	379.2	378.9	376.6	374.1	373.1	372.0	370.9	369.5	368.1	366.7	365.8
27.5°	398.6	397.8	394.4	393.1	391.7	391.0	389.5	387.8	386.8	384.8	383.8
30°	420.0	420.0	417.3	416.8	416.8	415.2	413.6	410.6	408.8	406.8	406.3
32.5°	441.2	441.4	438.7	439.6	440.2	441.2	441.7	440.7	439.5	439.2	438.0
35°	472.1	471.3	468.6	469.2	468.9	468.7	468.7	471.2	471.5	471.9	469.5
37.5°	510.3	510.3	507.6	507.6	506.4	505.1	503.4	504.8	507.3	507.9	506.1
40°	554.2	555.6	552.3	552.1	552.5	548.4	546.6	548.9	550.3	552.8	551.0
42.5°	605.7	604.6	601.2	600.8	598.5	597.3	595.5	597.6	599.8	601.4	602.1
45°	655.1	654.3	650.6	650.6	648.1	647.1	647.9	651.2	652.2	654.5	656.9
47.5°	704.0	703.0	700.4	701.4	701.7	703.6	706.3	709.3	712.3	715.4	716.5
50°	753.9	754.0	751.3	753.9	757.0	762.3	769.8	774.6	780.7	784.7	785.9
52.5°	799.3	800.2	803.2	809.1	815.4	825.7	838.4	850.2	860.3	867.1	866.8
55°	853.8	855.0	862.4	872.4	882.9	898.5	917.3	938.2	955.1	964.8	958.8
57.5°	923.5	926.3	934.3	948.2	963.5	983.9	1009.7	1041.0	1067.2	1080.4	1070.5
60°	1019.3	1021.1	1030.7	1045.9	1064.5	1089.7	1124.1	1166.4	1203.4	1220.7	1209.4
62.5°	1145.5	1148.8	1156.5	1171.8	1191.0	1219.4	1261.5	1314.4	1360.5	1384.6	1358.7
65°	1296.3	1306.3	1313.0	1328.6	1346.3	1376.6	1420.5	1477.2	1526.6	1542.4	1512.7
67.5°	1445.5	1454.3	1465.8	1483.7	1501.6	1535.7	1576.4	1631.4	1685.7	1700.1	1653.8
70°	1510.7	1515.8	1533.5	1558.1	1592.5	1632.7	1679.8	1741.5	1808.6	1820.5	1761.8
72.5°	1379.8	1384.9	1404.8	1446.5	1506.5	1570.2	1652.5	1743.3	1832.0	1845.3	1764.4
75°	1043.7	1035.3	1064.9	1119.9	1200.9	1289.8	1404.8	1534.8	1663.1	1679.8	1583.3
77.5°	539.3	538.4	560.5	629.0	725.6	826.8	953.5	1100.2	1225.7	1276.5	1197.9
80°	152.0	153.6	164.2	198.3	254.7	327.8	426.8	564.2	667.0	719.5	675.4
82.5°	59.6	64.3	68.4	74.6	82.0	92.7	123.8	184.3	247.3	295.5	242.1
85°	21.3	22.8	32.2	38.3	38.8	41.1	46.7	54.5	65.8	78.4	64.5
87.5°	8.1	8.9	10.4	17.1	16.9	15.5	18.9	19.7	14.8	13.6	16.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4
2.5°	325.5	325.6	325.6	325.8	326.2	326.2	326.5	326.5
5°	325.6	325.6	325.2	325.5	325.2	325.2	325.5	325.5
7.5°	325.2	325.0	324.6	324.4	324.0	324.0	324.0	324.0
10°	324.6	324.4	324.0	323.7	323.6	323.6	323.6	323.6
12.5°	326.4	325.6	325.2	325.0	325.0	325.0	325.0	325.0
15°	330.8	329.3	328.2	328.2	328.4	328.9	328.9	329.3
17.5°	336.2	334.6	333.5	332.6	333.1	333.7	334.1	334.6
20°	342.9	342.0	340.5	339.6	339.6	340.5	340.8	341.1
22.5°	351.9	351.2	350.6	349.6	349.6	350.0	350.9	350.9
25°	365.4	365.0	364.6	363.8	363.5	363.5	364.0	364.4
27.5°	382.3	382.6	382.0	381.9	381.3	381.2	381.7	381.5
30°	405.0	406.0	407.0	406.3	405.1	404.5	403.9	403.0
32.5°	435.6	434.3	433.5	431.9	430.1	428.4	427.1	425.6
35°	464.6	462.4	461.5	462.8	462.6	461.5	460.1	458.9
37.5°	500.0	499.6	500.0	502.4	502.0	503.1	500.0	499.8
40°	544.8	545.4	548.2	551.0	552.5	554.0	552.3	550.7
42.5°	596.8	596.7	597.7	601.4	604.0	605.7	602.1	601.8
45°	651.8	650.4	651.2	654.3	656.9	658.7	654.8	654.8
47.5°	712.3	709.8	707.0	710.6	712.0	713.3	710.1	709.1
50°	779.6	774.3	768.5	769.9	769.9	769.5	765.4	765.3
52.5°	857.1	847.3	836.5	832.5	830.2	827.7	820.7	817.3
55°	945.9	931.5	914.6	904.1	898.7	891.7	880.1	876.8
57.5°	1049.9	1027.1	997.9	985.4	973.0	961.6	948.7	945.1
60°	1173.1	1139.6	1101.0	1077.4	1064.1	1053.2	1039.9	1039.2
62.5°	1310.5	1257.4	1213.8	1192.6	1182.9	1173.1	1160.5	1162.1
65°	1450.3	1394.9	1353.8	1336.8	1327.7	1319.7	1306.9	1308.9
67.5°	1588.1	1537.1	1492.2	1474.6	1464.4	1454.3	1442.9	1444.7
70°	1686.9	1623.7	1573.0	1534.1	1510.0	1482.5	1464.6	1460.3
72.5°	1658.7	1561.3	1480.6	1403.5	1358.3	1321.5	1296.7	1285.8
75°	1435.5	1302.4	1198.8	1104.0	1050.8	1007.4	976.0	956.3
77.5°	1066.1	916.5	794.0	685.0	598.7	540.8	500.0	473.6
80°	583.4	443.9	324.4	228.0	167.7	139.2	123.0	115.3
82.5°	181.7	117.3	86.4	74.6	69.3	66.4	61.5	53.7
85°	57.9	50.8	47.2	45.0	42.8	37.4	25.8	23.4
87.5°	22.4	23.0	22.8	21.6	22.0	15.9	12.7	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)