

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: P200067

Luminaire Tested: **GWC-AF-01-LED-E1-5NQ-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200067  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-01-LED-E1-5NQ-600  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4420.2 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

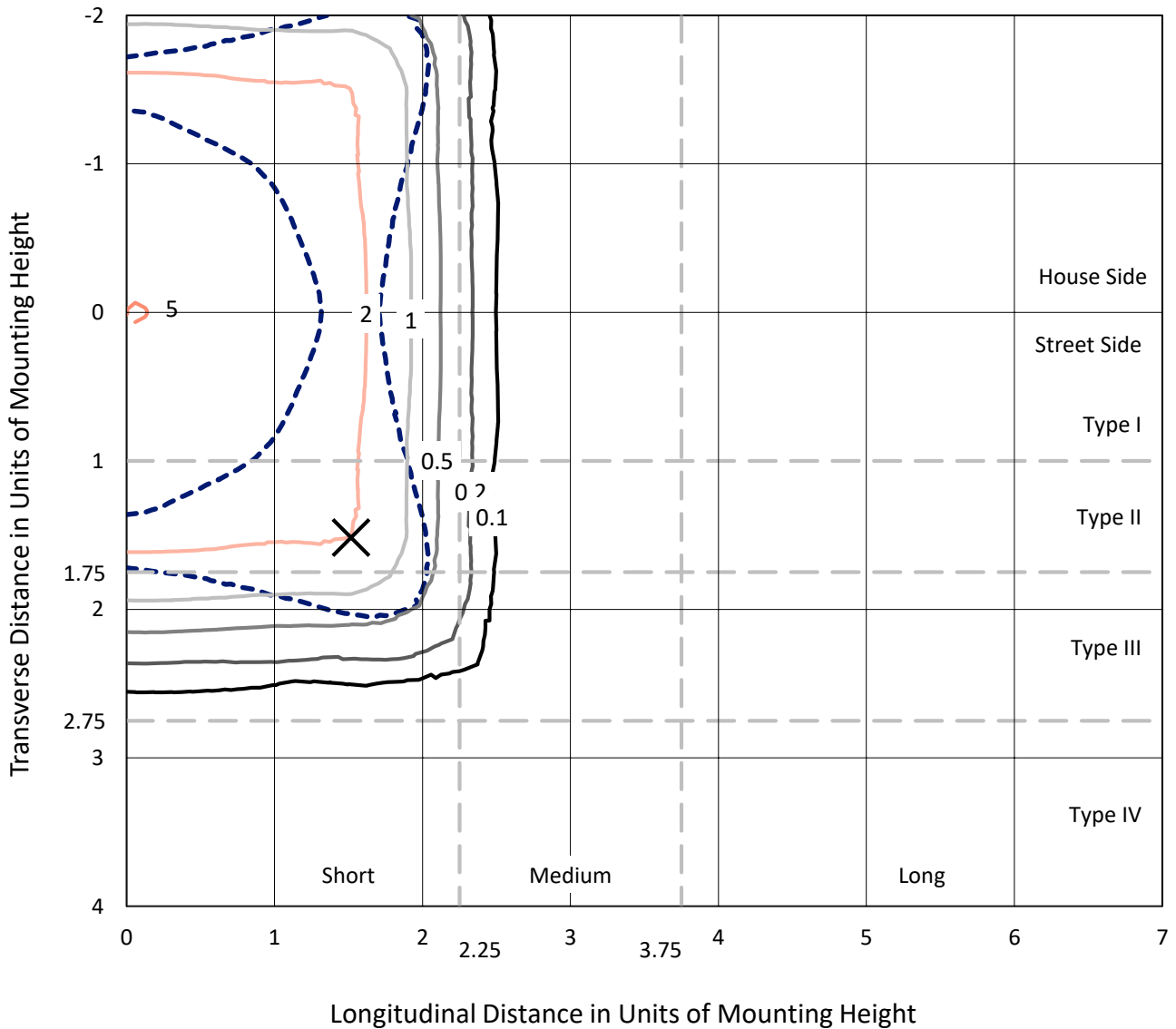
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

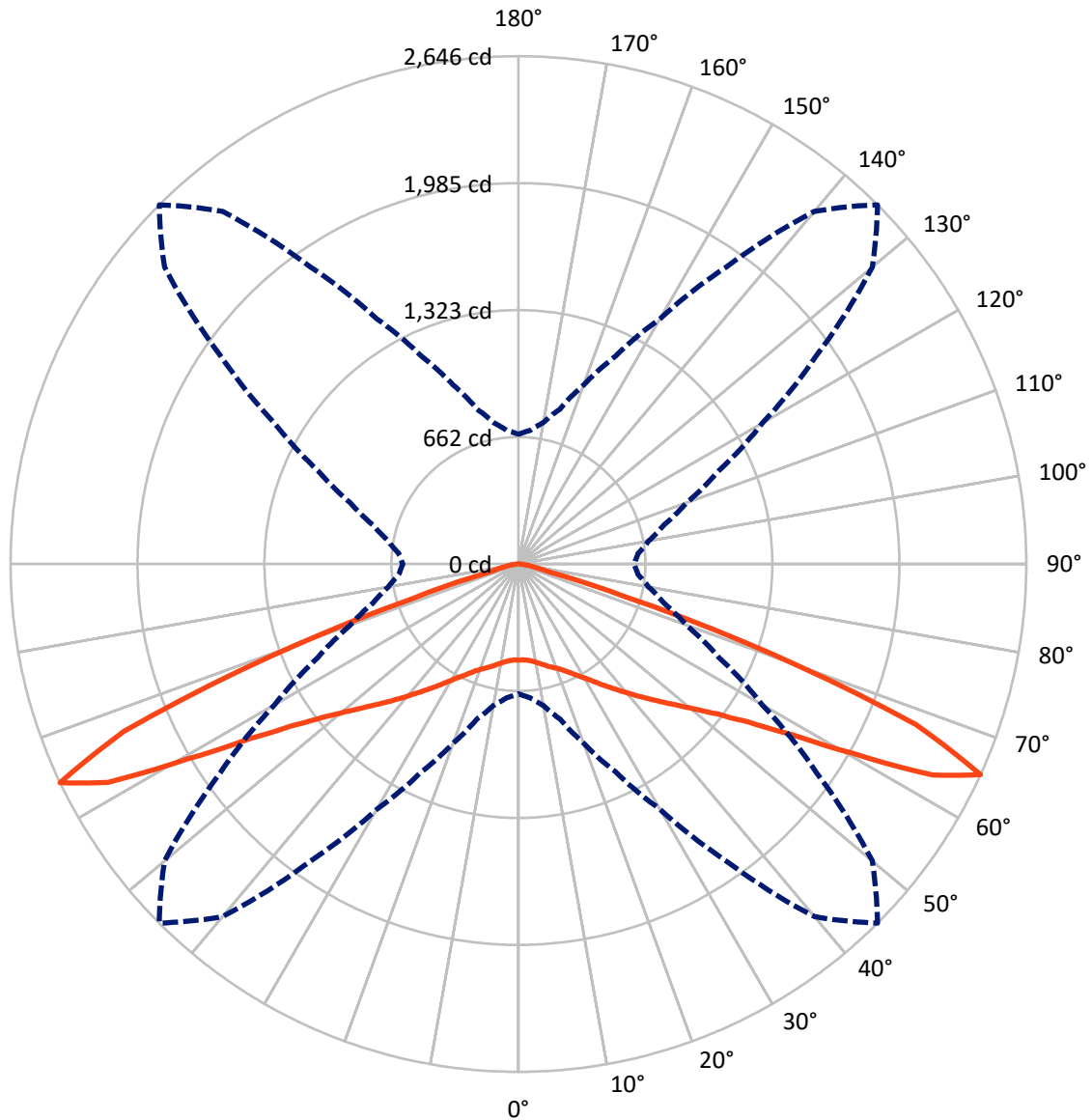
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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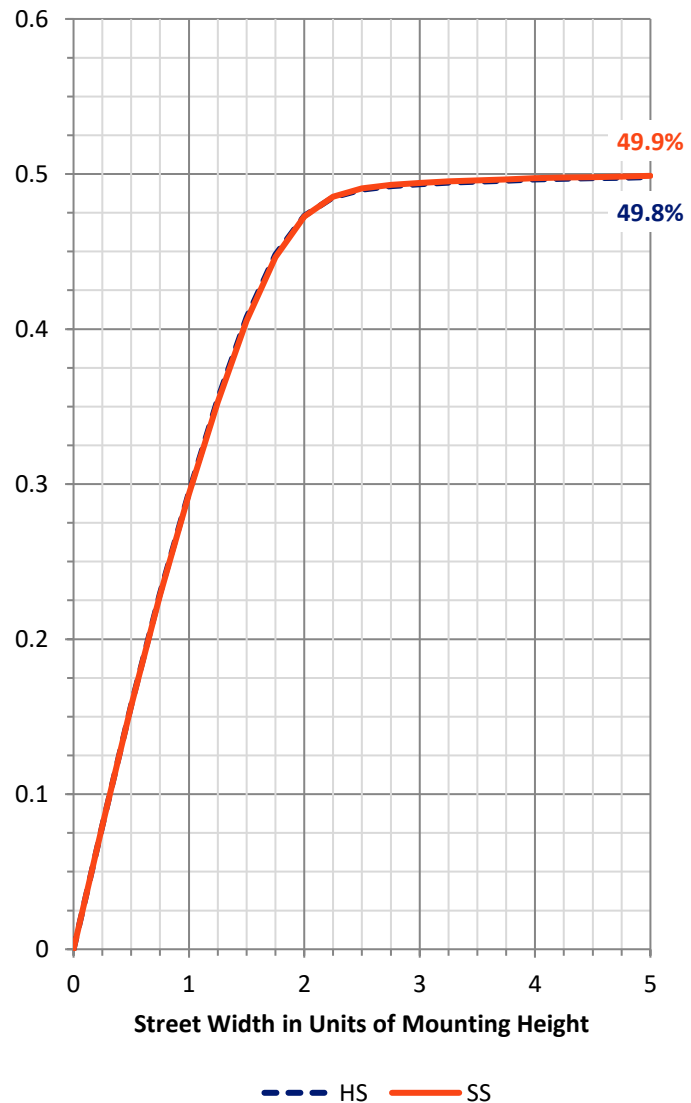
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2210.1	0.0	2210.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2210.1	0.0	2210.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4420.2	0.0	4420.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.7	1.1
10°-20°	156.3	3.5
20°-30°	292.3	6.6
30°-40°	494.4	11.2
40°-50°	808.4	18.3
50°-60°	1285.5	29.1
60°-70°	1162.0	26.3
70°-80°	147.1	3.3
80°-90°	25.3	0.6
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°	4420.2	100.0
0°-180°	4420.2	100.0



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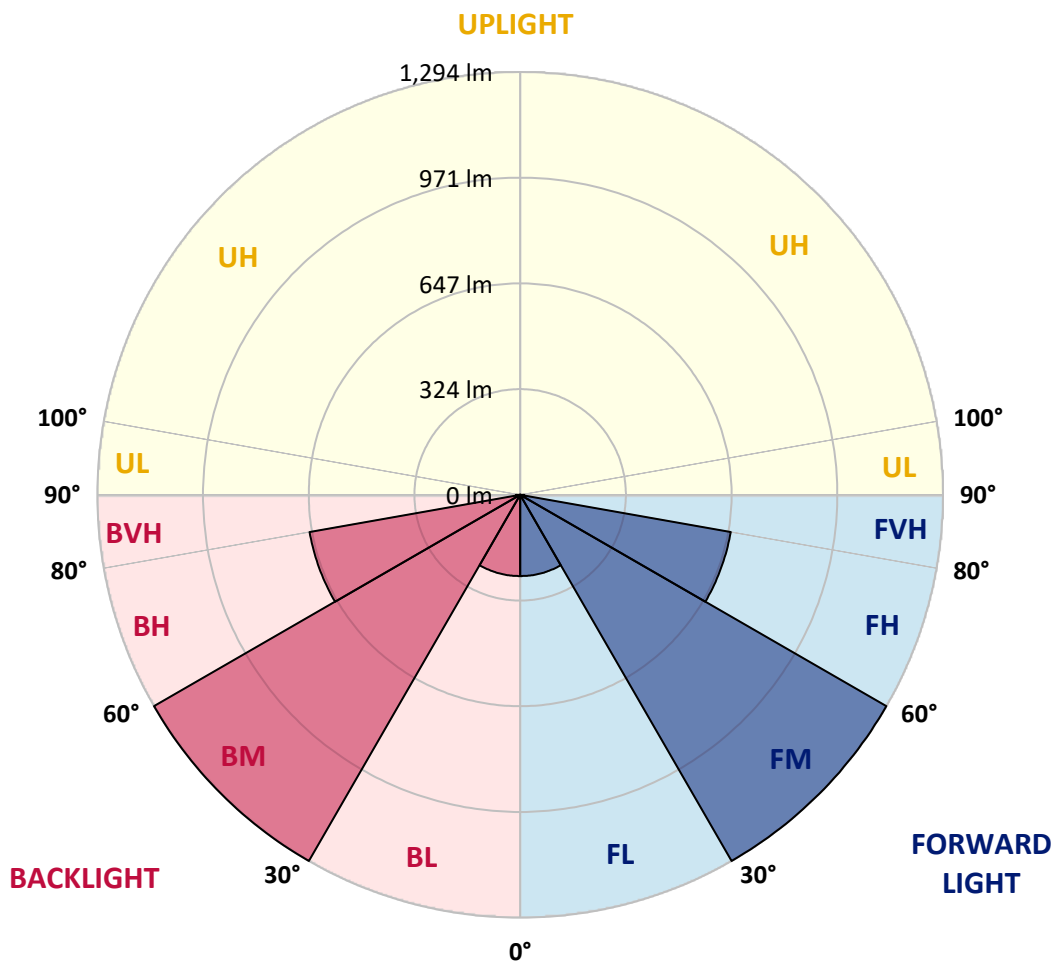
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	248.7	5.6			
FM	(30°-60°)	1294.2	29.3			
FH	(60°-80°)	654.5	14.8			G0/660
FVH	(80°-90°)	12.6	0.3			G1/100
BL	(0°-30°)	248.7	5.6	B1/500		
BM	(30°-60°)	1294.2	29.3	B2/2500		
BH	(60°-80°)	654.5	14.8	B2/1000		G0/660
BVH	(80°-90°)	12.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1
2.5°	500.5	500.9	501.3	500.9	501.3	500.7	500.3	500.9	500.3	499.7	500.1
5°	504.9	505.1	505.1	504.5	505.1	504.7	504.1	504.9	504.3	503.7	504.1
7.5°	512.2	513.0	512.4	511.8	512.2	511.8	511.4	511.6	511.4	510.7	510.9
10°	521.9	522.5	522.1	521.9	522.3	522.1	521.7	521.5	521.7	521.1	521.1
12.5°	533.7	533.5	533.3	533.5	534.1	534.1	533.9	534.1	534.5	534.7	534.3
15°	545.2	545.6	545.6	545.6	547.0	548.0	548.6	549.0	549.8	550.0	549.2
17.5°	559.8	559.8	559.6	559.8	561.0	562.6	563.2	564.2	565.0	565.6	564.6
20°	575.9	576.3	576.3	576.7	578.4	580.2	580.2	580.6	580.2	580.6	580.0
22.5°	595.6	596.8	596.8	597.0	598.7	601.0	600.4	601.0	600.0	600.8	600.0
25°	621.2	623.1	622.7	622.7	623.9	625.4	625.6	626.9	626.7	627.7	627.1
27.5°	650.2	653.2	654.0	653.8	654.6	656.0	656.4	657.9	657.0	657.9	657.5
30°	685.0	686.3	687.9	688.5	689.6	691.0	691.0	691.2	690.2	691.4	692.0
32.5°	721.1	723.3	725.0	728.6	730.6	731.6	731.4	731.8	730.8	732.4	733.7
35°	768.6	770.3	772.9	775.9	778.4	778.2	777.5	777.7	777.7	779.2	780.4
37.5°	826.0	826.4	829.9	834.0	835.3	834.0	830.3	829.5	827.7	829.5	831.6
40°	886.6	888.1	895.1	897.8	898.5	896.2	890.8	887.7	883.5	885.8	888.7
42.5°	950.2	953.1	959.5	964.2	966.4	964.8	957.5	952.7	947.3	948.6	951.4
45°	1020.6	1024.1	1033.2	1037.8	1041.7	1039.4	1032.2	1024.9	1016.4	1017.0	1021.6
47.5°	1099.3	1102.7	1114.6	1122.2	1124.3	1123.9	1115.8	1105.9	1094.3	1093.8	1097.8
50°	1187.4	1190.9	1205.6	1217.4	1223.4	1222.8	1213.3	1199.2	1185.2	1185.4	1190.3
52.5°	1273.6	1277.9	1293.2	1313.5	1325.3	1333.8	1328.0	1314.7	1297.5	1298.0	1302.5
55°	1354.3	1361.5	1379.1	1406.7	1428.6	1452.4	1459.2	1458.8	1448.5	1451.4	1456.0
57.5°	1393.4	1404.2	1431.3	1474.8	1519.5	1567.9	1608.9	1639.6	1652.6	1672.2	1667.7
60°	1319.3	1336.5	1376.5	1440.4	1528.8	1629.9	1738.1	1843.9	1934.1	2002.2	1963.1
62.5°	1080.2	1102.5	1151.0	1233.0	1366.7	1528.4	1735.6	1985.6	2258.1	2422.4	2305.1
65°	675.9	699.1	748.4	836.2	992.7	1193.7	1474.8	1889.2	2398.2	2646.1	2407.1
67.5°	263.5	276.2	302.9	359.0	476.6	655.4	937.5	1407.9	2016.7	2233.9	1979.2
70°	132.1	133.3	138.3	148.6	173.9	225.9	343.6	652.7	1156.5	1396.9	1115.0
72.5°	95.4	95.6	98.1	102.7	110.8	122.3	144.7	199.8	376.1	574.9	352.5
75°	73.0	73.9	75.4	77.8	82.1	88.0	96.1	115.1	142.6	165.4	139.1
77.5°	56.3	58.0	59.0	61.3	63.9	67.9	70.2	77.4	90.0	94.8	93.4
80°	42.9	44.3	46.5	48.5	50.3	52.2	51.4	54.6	61.3	65.2	63.1
82.5°	27.3	28.9	35.6	37.2	38.1	39.4	37.8	38.1	41.0	43.5	41.0
85°	17.6	18.6	22.6	24.7	24.9	25.7	25.1	23.6	23.6	21.5	24.2
87.5°	8.1	8.3	10.1	12.0	12.4	11.2	10.9	10.5	8.5	8.1	8.7
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°	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1
2.5°	499.9	500.3	500.5	501.1	501.3	501.3	501.6	502.0
5°	503.9	504.5	504.7	505.5	505.7	505.5	506.0	506.2
7.5°	510.9	512.0	512.4	513.2	512.6	513.4	513.6	513.6
10°	521.3	522.3	522.5	523.3	522.9	523.3	523.3	522.9
12.5°	534.9	535.1	534.5	535.1	534.3	534.7	534.1	533.7
15°	550.0	549.4	548.0	548.0	546.8	547.0	546.8	546.6
17.5°	564.8	563.4	562.4	562.0	561.0	560.8	560.2	560.2
20°	580.8	580.2	579.6	578.8	577.8	576.7	576.5	576.9
22.5°	600.4	600.2	600.2	599.8	598.2	597.2	596.6	596.6
25°	626.5	624.5	624.5	624.3	623.7	623.1	621.9	622.5
27.5°	655.8	654.8	655.6	655.4	654.8	654.8	654.0	654.0
30°	692.0	691.6	692.8	691.8	689.8	689.6	688.8	687.7
32.5°	733.9	733.5	735.3	734.1	730.8	728.9	727.2	726.4
35°	780.4	780.6	783.0	782.1	778.4	777.1	774.3	773.9
37.5°	831.4	834.7	838.6	839.4	836.4	835.5	832.4	830.7
40°	891.2	895.5	901.5	903.0	899.7	899.1	894.7	892.4
42.5°	954.9	962.4	969.9	971.1	967.8	964.4	960.3	958.7
45°	1026.1	1035.0	1044.8	1047.3	1042.3	1038.4	1033.0	1033.0
47.5°	1106.1	1117.3	1128.2	1135.1	1130.5	1126.4	1119.9	1115.8
50°	1200.4	1215.8	1230.1	1237.2	1229.9	1222.0	1210.9	1207.1
52.5°	1318.9	1335.5	1347.8	1344.2	1333.0	1322.0	1309.8	1304.8
55°	1470.0	1475.6	1475.6	1461.5	1439.2	1420.8	1401.4	1395.1
57.5°	1659.0	1637.4	1604.4	1562.4	1509.6	1463.5	1432.5	1417.8
60°	1881.1	1777.6	1660.7	1545.8	1451.4	1373.5	1327.4	1306.2
62.5°	2029.1	1758.4	1524.0	1339.6	1203.8	1110.0	1046.3	1021.4
65°	1896.4	1466.5	1152.7	932.0	784.0	688.5	625.4	602.2
67.5°	1389.1	918.9	613.8	439.9	322.3	257.1	231.2	220.4
70°	623.5	323.6	198.4	154.9	133.5	122.5	117.7	116.1
72.5°	188.0	136.1	114.7	103.5	95.0	89.6	85.7	85.3
75°	113.4	94.4	83.9	77.2	71.8	67.5	65.4	64.8
77.5°	79.3	69.4	64.3	59.6	55.4	52.2	50.3	48.9
80°	55.6	50.9	48.7	45.9	43.3	40.2	37.4	36.2
82.5°	37.2	36.2	36.2	34.6	32.3	29.4	24.0	22.8
85°	24.0	23.8	24.2	23.6	22.0	18.8	15.5	14.7
87.5°	11.2	11.4	12.6	12.4	12.0	9.9	7.9	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)