

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: P200075

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200075  
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: GWC-AF-01-LED-E1-5WQ-600  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4513.2 lumens  
Efficiency: N/A  
Efficacy: 132.7 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

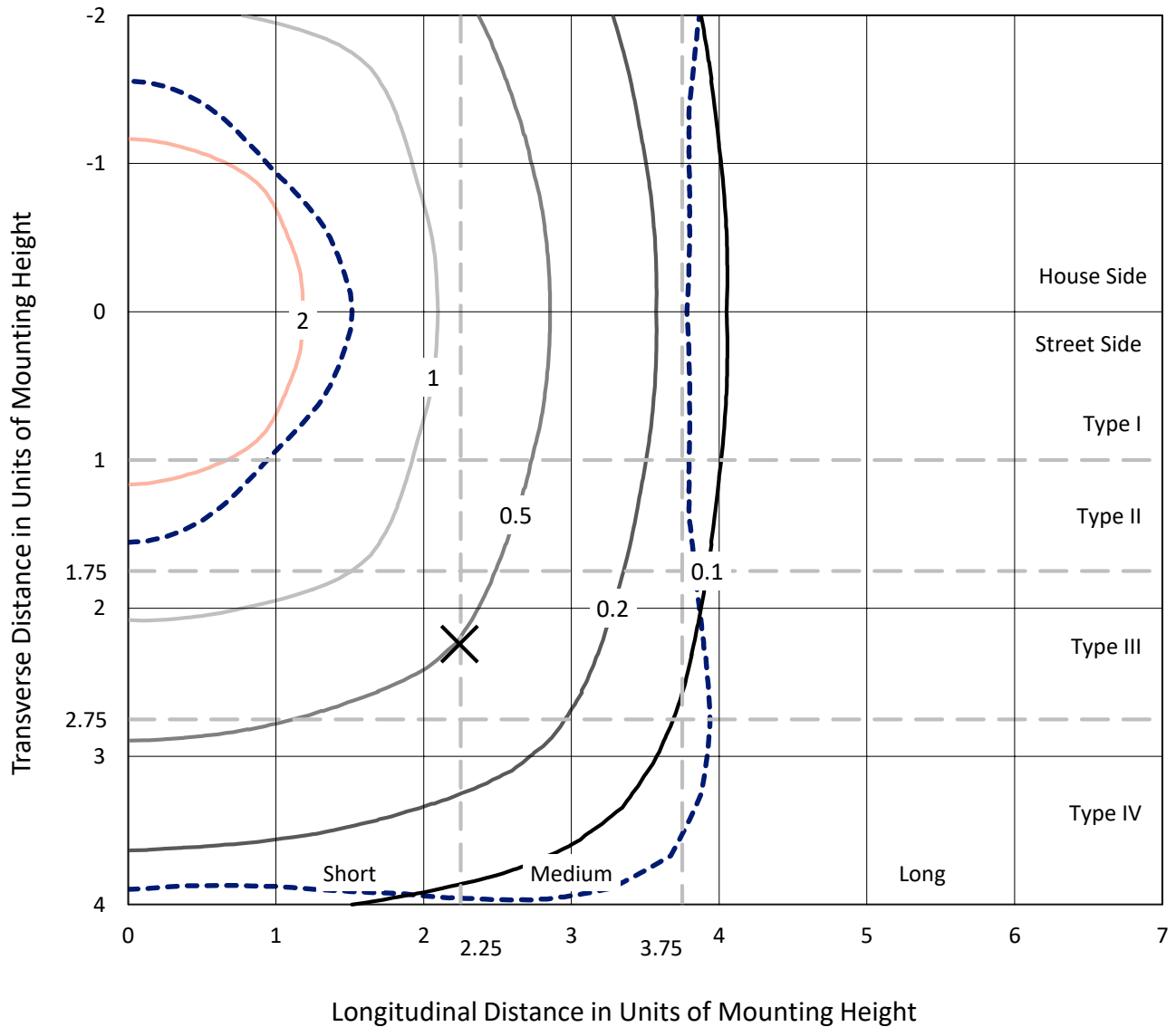
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

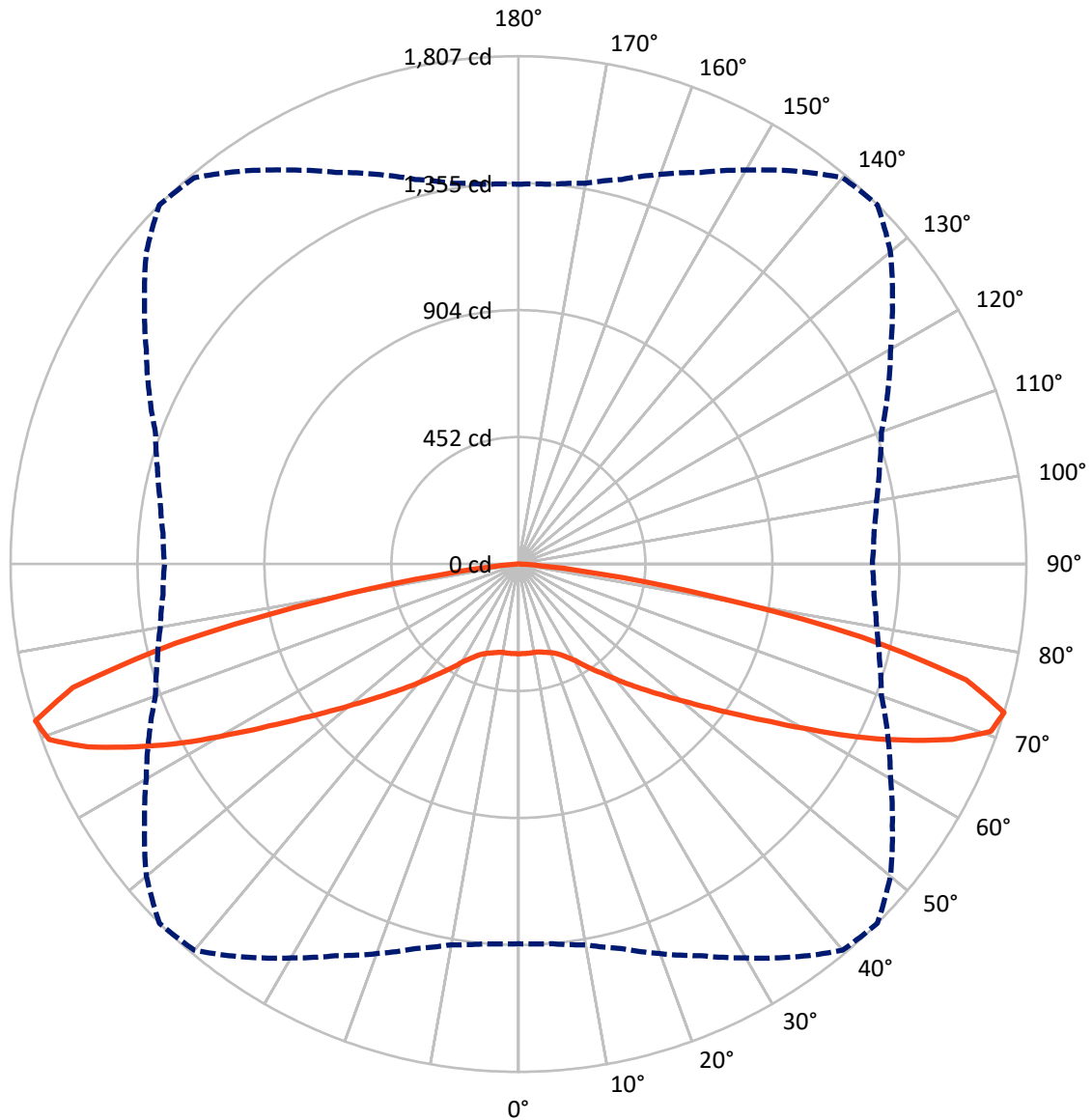
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 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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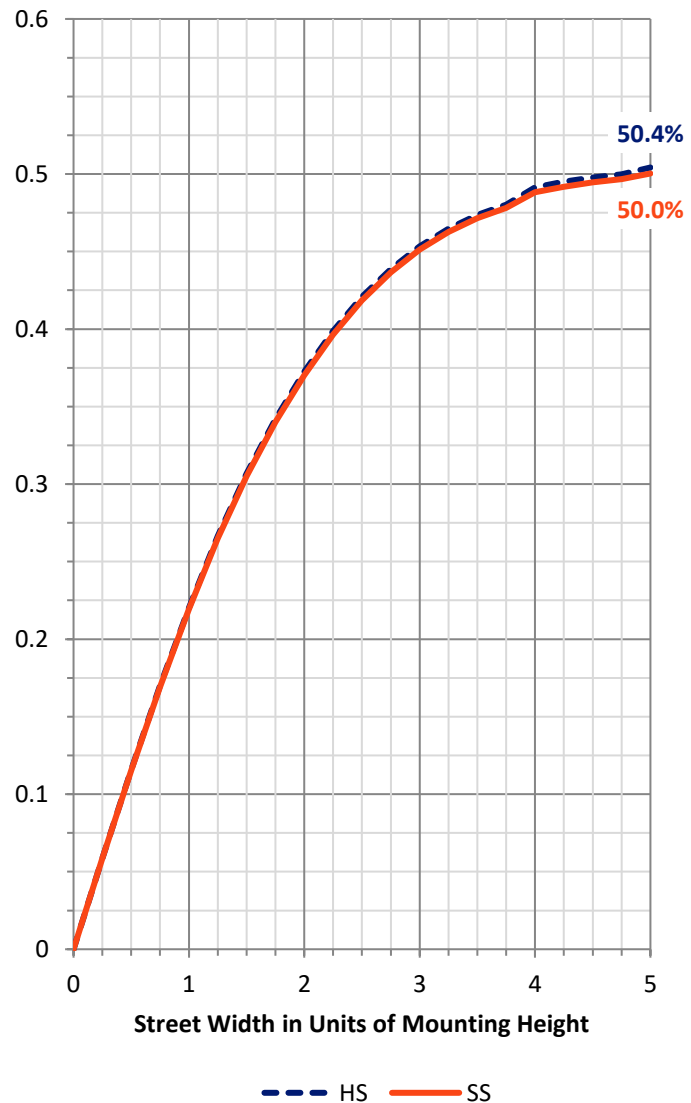
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2256.6	0.0	2256.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2256.6	0.0	2256.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4513.2	0.0	4513.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.5	0.7
10°-20°	92.7	2.1
20°-30°	169.4	3.8
30°-40°	292.0	6.5
40°-50°	499.2	11.1
50°-60°	809.2	17.9
60°-70°	1342.4	29.7
70°-80°	1182.4	26.2
80°-90°	95.3	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°	4513.2	100.0
0°-180°	4513.2	100.0



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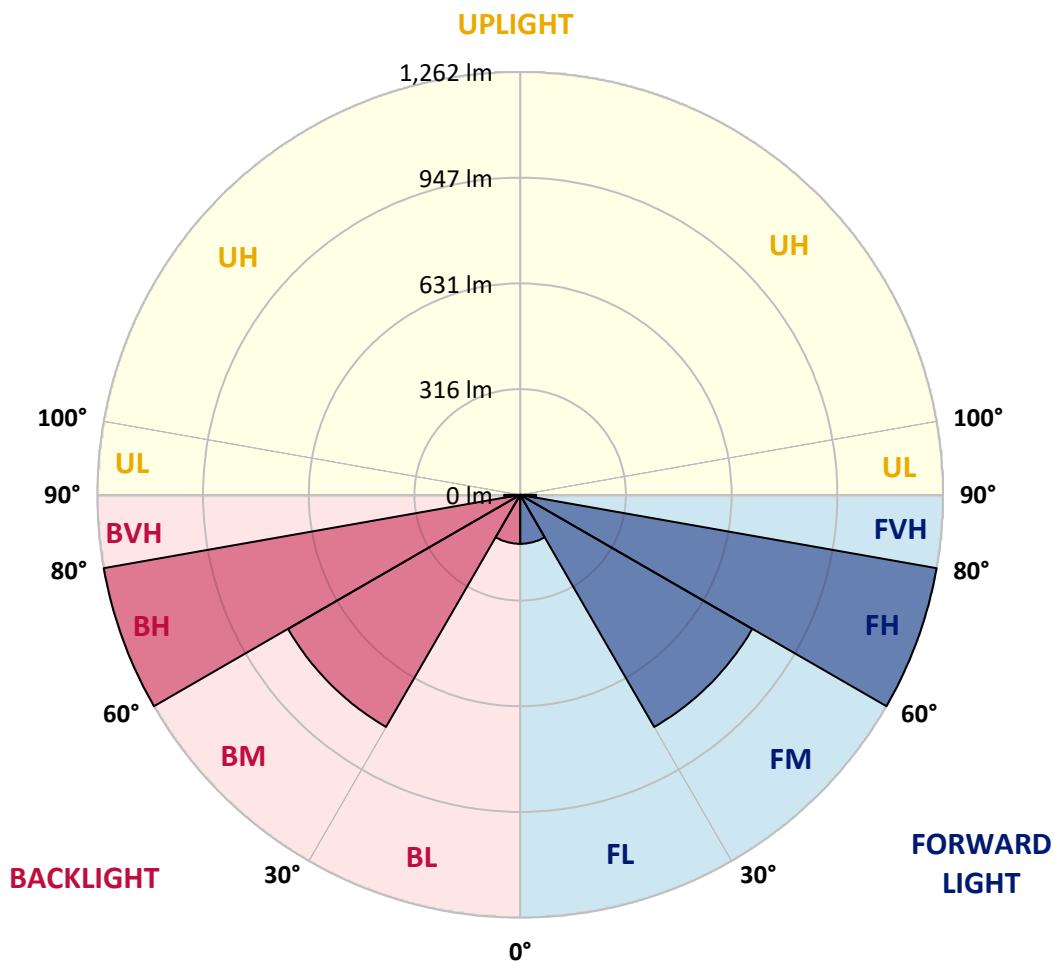
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	146.3	3.2			
FM	(30°-60°)	800.2	17.7			
FH	(60°-80°)	1262.4	28.0			G1/1800
FVH	(80°-90°)	47.7	1.1			G1/100
BL	(0°-30°)	146.3	3.2	B1/500		
BM	(30°-60°)	800.2	17.7	B1/1000		
BH	(60°-80°)	1262.4	28.0	B3/2500		G1/1800
BVH	(80°-90°)	47.7	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°	319.6	319.6	319.6	319.6	319.6	319.6	319.6	319.6	319.6	319.6	319.6
2.5°	319.6	319.8	320.0	319.8	319.8	319.6	319.4	319.6	319.4	319.0	319.2
5°	320.6	321.1	321.1	320.6	320.9	320.6	320.2	320.4	320.0	319.4	319.4
7.5°	321.9	322.1	322.1	321.7	321.9	321.5	321.1	320.9	320.4	319.6	319.0
10°	323.8	324.0	323.8	323.4	323.4	322.7	321.7	321.3	320.4	319.2	318.5
12.5°	325.8	326.0	325.8	325.4	325.2	324.2	323.4	322.7	322.1	321.1	320.0
15°	328.7	329.1	328.7	327.9	327.2	326.4	326.0	326.2	326.4	325.6	324.6
17.5°	334.1	334.3	333.7	331.8	331.0	330.2	330.2	330.6	331.2	330.8	329.8
20°	344.0	343.4	342.0	339.7	338.7	337.2	337.0	337.2	337.2	337.0	336.1
22.5°	356.5	356.1	354.1	351.3	349.8	349.0	347.8	346.7	346.5	345.9	345.0
25°	371.3	371.1	368.9	366.4	365.4	364.3	363.2	361.8	360.6	359.2	358.3
27.5°	390.4	389.5	386.3	385.0	383.6	383.0	381.5	379.8	378.8	377.0	375.9
30°	411.3	411.3	408.7	408.2	408.2	406.7	405.1	402.2	400.4	398.4	397.8
32.5°	432.2	432.4	429.7	430.6	431.2	432.2	432.6	431.6	430.4	430.2	428.9
35°	462.5	461.7	458.9	459.5	459.3	459.1	459.1	461.5	461.9	462.3	459.7
37.5°	499.9	499.9	497.3	497.3	495.9	494.7	493.1	494.5	496.8	497.5	495.7
40°	542.8	544.2	540.9	540.7	541.1	537.2	535.3	537.6	539.0	541.6	539.6
42.5°	593.3	592.2	588.9	588.5	586.3	585.0	583.3	585.2	587.5	589.1	589.7
45°	641.7	640.9	637.2	637.2	634.8	633.8	634.6	637.8	638.8	641.1	643.3
47.5°	689.5	688.4	686.0	687.0	687.2	689.1	691.8	694.7	697.6	700.7	701.7
50°	738.4	738.6	735.9	738.4	741.4	746.7	753.9	758.6	764.7	768.5	769.9
52.5°	782.9	783.7	786.6	792.4	798.6	808.7	821.1	832.8	842.7	849.4	848.9
55°	836.3	837.5	844.5	854.5	864.6	879.9	898.4	918.9	935.4	945.0	939.0
57.5°	904.6	907.3	915.1	928.6	943.7	963.6	988.9	1019.7	1045.4	1058.1	1048.4
60°	998.4	1000.0	1009.6	1024.5	1042.7	1067.2	1101.0	1142.4	1178.6	1195.6	1184.5
62.5°	1122.0	1125.0	1132.7	1147.9	1166.5	1194.4	1235.6	1287.4	1332.5	1356.0	1330.8
65°	1269.6	1279.5	1285.8	1301.2	1318.6	1348.1	1391.2	1446.8	1495.1	1510.7	1481.5
67.5°	1415.7	1424.4	1435.5	1453.1	1470.7	1504.0	1544.0	1597.8	1651.0	1665.2	1619.7
70°	1479.6	1484.6	1502.0	1526.0	1559.8	1599.1	1645.2	1705.7	1771.5	1783.1	1725.5
72.5°	1351.5	1356.4	1376.0	1416.7	1475.5	1538.0	1618.5	1707.3	1794.3	1807.3	1728.1
75°	1022.1	1014.1	1042.9	1096.9	1176.2	1263.3	1376.0	1503.2	1628.8	1645.2	1550.7
77.5°	528.3	527.2	548.9	616.0	710.6	809.8	933.7	1077.7	1200.6	1250.3	1173.3
80°	148.8	150.5	160.8	194.2	249.4	321.1	418.0	552.7	653.3	704.6	661.5
82.5°	58.4	62.9	66.9	73.0	80.3	90.8	121.3	180.6	242.2	289.4	237.0
85°	20.9	22.4	31.7	37.4	38.1	40.2	45.7	53.4	64.3	76.8	63.1
87.5°	7.9	8.7	10.1	16.8	16.6	15.1	18.4	19.2	14.5	13.3	16.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	319.6	319.6	319.6	319.6	319.6	319.6	319.6	319.6
2.5°	318.8	319.0	319.0	319.2	319.4	319.4	319.8	319.8
5°	319.0	319.0	318.5	318.8	318.5	318.5	318.8	318.8
7.5°	318.5	318.3	317.9	317.7	317.3	317.3	317.3	317.3
10°	317.9	317.7	317.3	317.1	316.9	316.9	316.9	316.9
12.5°	319.6	319.0	318.5	318.3	318.3	318.3	318.3	318.3
15°	324.0	322.5	321.5	321.5	321.7	322.1	322.1	322.5
17.5°	329.3	327.7	326.6	325.8	326.2	326.8	327.2	327.7
20°	335.7	334.9	333.5	332.7	332.7	333.5	333.9	334.1
22.5°	344.6	344.0	343.4	342.4	342.4	342.8	343.6	343.6
25°	357.9	357.5	357.1	356.3	356.1	356.1	356.5	356.9
27.5°	374.5	374.7	374.3	374.1	373.5	373.2	373.9	373.7
30°	396.6	397.6	398.6	397.8	396.8	396.2	395.6	394.8
32.5°	426.7	425.3	424.5	423.1	421.3	419.6	418.4	416.9
35°	455.0	453.0	452.0	453.4	453.2	452.0	450.6	449.4
37.5°	489.8	489.4	489.8	492.0	491.6	492.7	489.8	489.6
40°	533.7	534.1	536.9	539.6	541.1	542.6	540.9	539.2
42.5°	584.6	584.4	585.4	589.1	591.6	593.3	589.7	589.3
45°	638.4	637.0	637.8	640.9	643.3	645.2	641.3	641.3
47.5°	697.6	695.1	692.4	695.9	697.3	698.7	695.5	694.5
50°	763.6	758.4	752.7	754.1	754.1	753.7	749.7	749.5
52.5°	839.4	829.8	819.3	815.4	813.1	810.6	803.7	800.5
55°	926.5	912.3	895.7	885.6	880.1	873.3	861.9	858.9
57.5°	1028.4	1006.1	977.4	965.1	953.0	941.8	929.2	925.7
60°	1149.1	1116.1	1078.3	1055.3	1042.3	1031.4	1018.4	1017.8
62.5°	1283.6	1231.6	1188.8	1168.1	1158.6	1149.1	1136.6	1138.3
65°	1420.5	1366.3	1326.1	1309.3	1300.4	1292.5	1280.1	1282.0
67.5°	1555.4	1505.5	1461.4	1444.2	1434.3	1424.4	1413.2	1415.0
70°	1652.3	1590.4	1540.7	1502.6	1478.8	1451.9	1434.5	1430.2
72.5°	1624.5	1529.1	1450.2	1374.6	1330.3	1294.3	1270.0	1259.4
75°	1405.9	1275.5	1174.1	1081.4	1029.2	986.7	955.9	936.7
77.5°	1044.1	897.5	777.7	670.9	586.5	529.7	489.8	463.9
80°	571.5	434.7	317.7	223.3	164.2	136.5	120.5	112.8
82.5°	178.0	114.9	84.7	73.0	67.9	65.0	60.3	52.6
85°	56.7	49.7	46.1	44.1	42.0	36.6	25.3	23.0
87.5°	21.9	22.6	22.4	21.1	21.5	15.5	12.4	10.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)