

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: P200551

Luminaire Tested: **GWC-AF-01-LED-E1-5NQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200551
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-8030
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5351 lumens
Efficiency: N/A
Efficacy: 90.7 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): 59
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

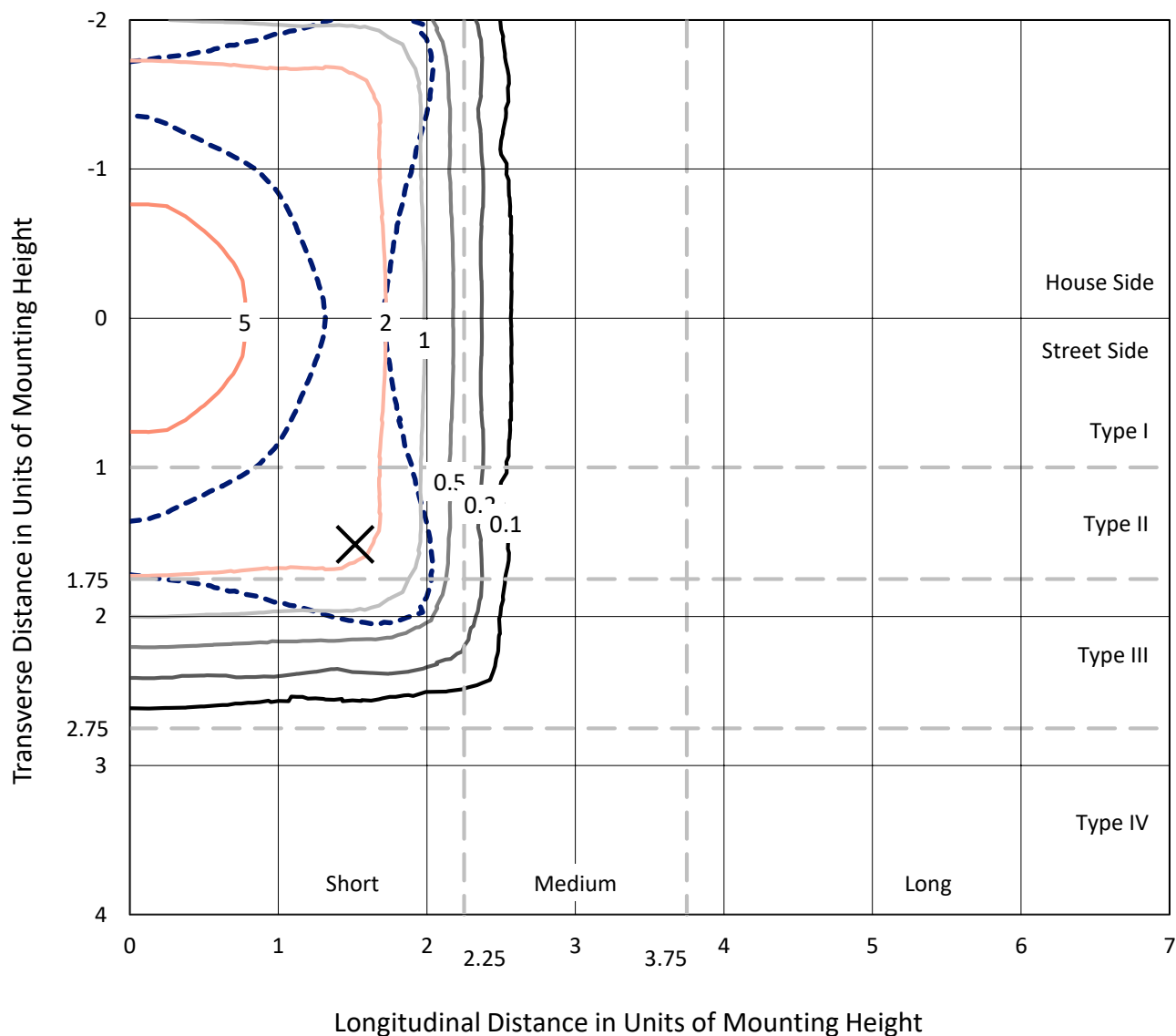


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

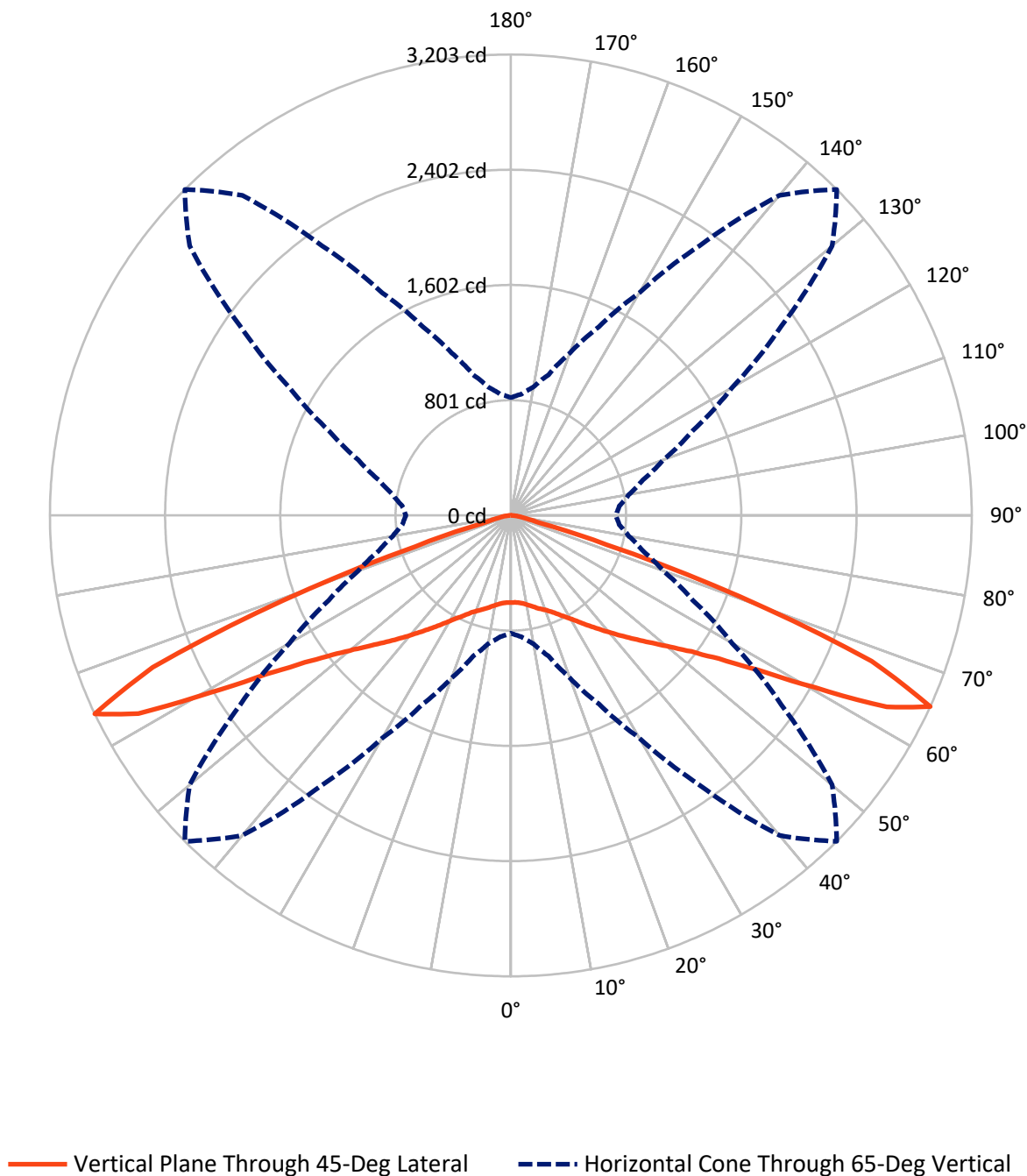


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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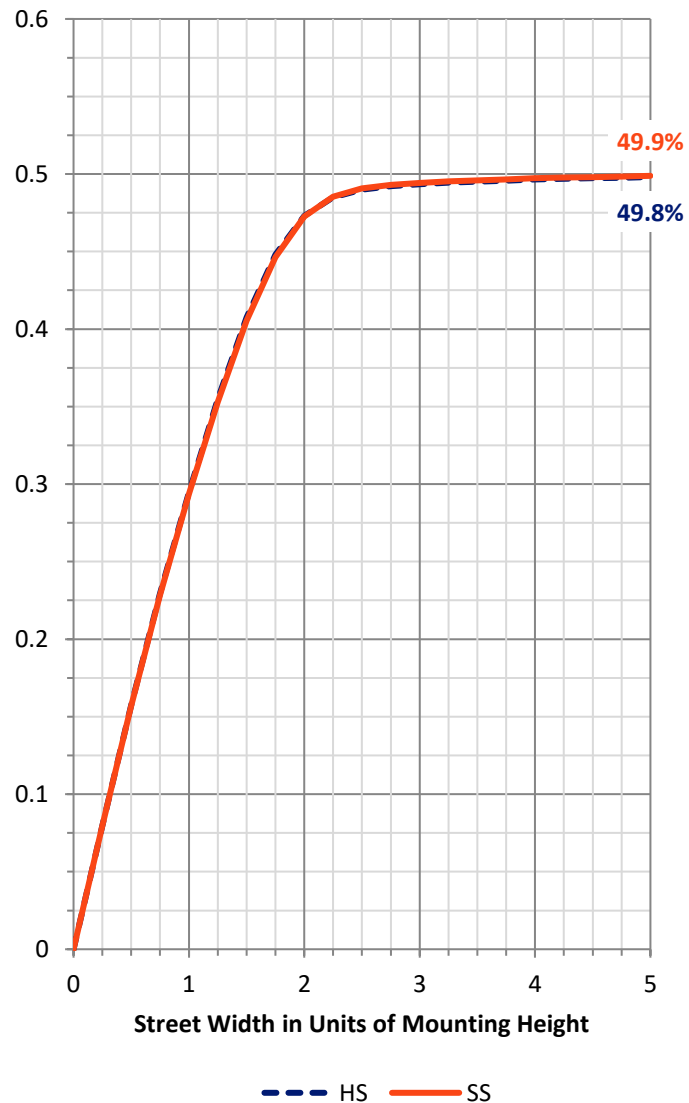
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2675.5	0.0	2675.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2675.5	0.0	2675.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5351.0	0.0	5351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	1.1
10°-20°	189.3	3.5
20°-30°	353.9	6.6
30°-40°	598.5	11.2
40°-50°	978.7	18.3
50°-60°	1556.2	29.1
60°-70°	1406.7	26.3
70°-80°	178.0	3.3
80°-90°	30.6	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°	5351.0	100.0
0°-180°	5351.0	100.0

Coefficient of Utilization



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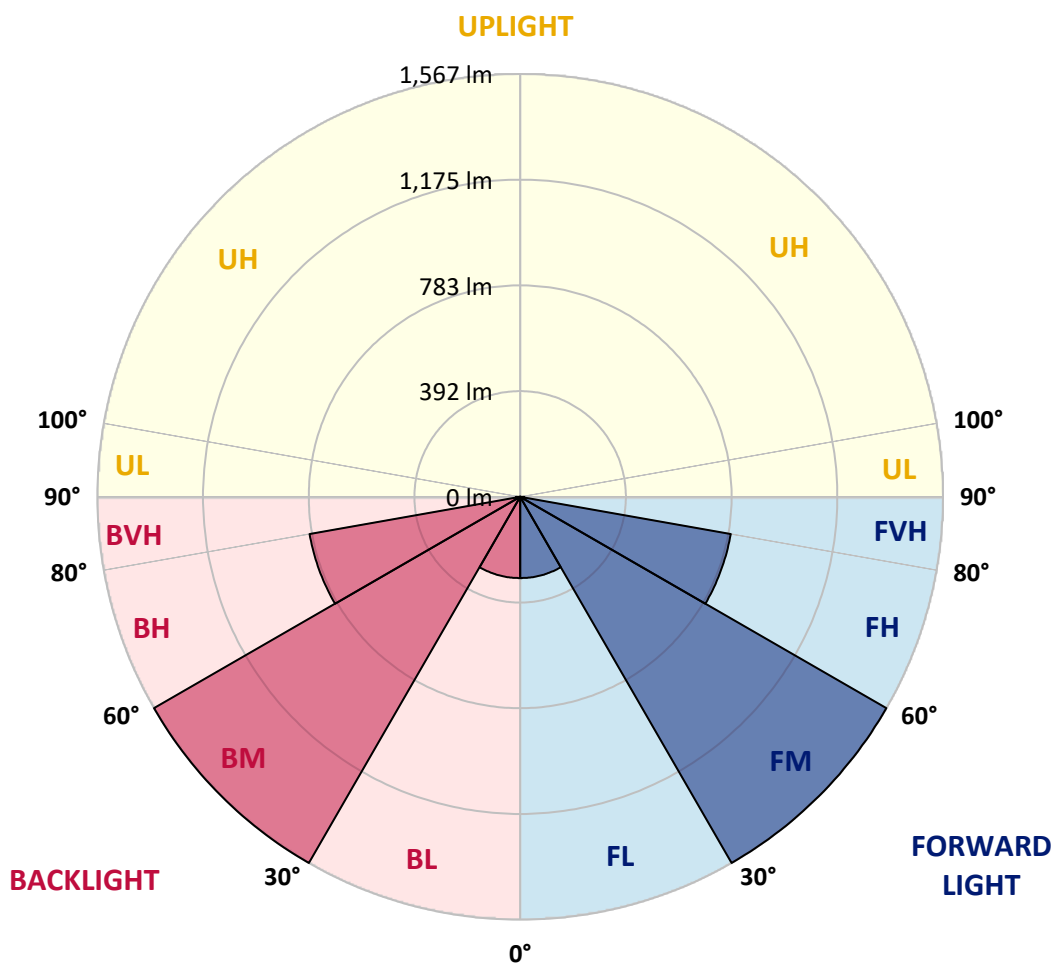
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.1	5.6			
FM	(30°-60°)	1566.7	29.3			
FH	(60°-80°)	792.4	14.8			G1/1800
FVH	(80°-90°)	15.3	0.3			G1/100
BL	(0°-30°)	301.1	5.6	B1/500		
BM	(30°-60°)	1566.7	29.3	B2/2500		
BH	(60°-80°)	792.4	14.8	B2/1000		G1/1800
BVH	(80°-90°)	15.3	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°	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
2.5°	606.0	606.5	607.0	606.5	607.0	606.2	605.7	606.5	605.7	605.0	605.5
5°	611.2	611.5	611.5	610.7	611.5	611.0	610.2	611.2	610.5	609.7	610.2
7.5°	620.0	621.0	620.3	619.5	620.0	619.5	619.0	619.3	619.0	618.2	618.5
10°	631.8	632.5	632.0	631.8	632.3	632.0	631.5	631.3	631.5	630.8	630.8
12.5°	646.1	645.8	645.6	645.8	646.6	646.6	646.3	646.6	647.1	647.3	646.8
15°	660.1	660.6	660.6	660.6	662.1	663.4	664.1	664.6	665.6	665.9	664.9
17.5°	677.6	677.6	677.4	677.6	679.1	681.2	681.9	682.9	683.9	684.7	683.4
20°	697.2	697.7	697.7	698.2	700.2	702.5	702.5	703.0	702.5	703.0	702.2
22.5°	721.0	722.5	722.5	722.8	724.8	727.5	726.8	727.5	726.3	727.3	726.3
25°	752.1	754.3	753.8	753.8	755.3	757.1	757.3	758.8	758.6	759.8	759.1
27.5°	787.2	790.7	791.7	791.4	792.4	794.2	794.7	796.4	795.4	796.4	795.9
30°	829.3	830.8	832.8	833.5	834.8	836.5	836.5	836.8	835.5	837.0	837.8
32.5°	872.9	875.6	877.6	882.1	884.4	885.6	885.4	885.9	884.6	886.7	888.2
35°	930.5	932.5	935.8	939.3	942.3	942.0	941.3	941.5	941.5	943.3	944.8
37.5°	999.9	1000.4	1004.7	1009.7	1011.2	1009.7	1005.2	1004.2	1001.9	1004.2	1006.7
40°	1073.4	1075.1	1083.6	1086.9	1087.6	1084.9	1078.4	1074.6	1069.6	1072.4	1075.9
42.5°	1150.3	1153.8	1161.6	1167.3	1169.8	1168.1	1159.1	1153.3	1146.8	1148.3	1151.8
45°	1235.5	1239.8	1250.8	1256.3	1261.1	1258.3	1249.5	1240.8	1230.5	1231.2	1236.7
47.5°	1330.7	1335.0	1349.3	1358.5	1361.1	1360.5	1350.8	1338.7	1324.7	1324.2	1329.0
50°	1437.5	1441.7	1459.5	1473.8	1481.1	1480.3	1468.8	1451.8	1434.7	1435.0	1441.0
52.5°	1541.7	1547.0	1565.5	1590.1	1604.4	1614.7	1607.6	1591.6	1570.8	1571.3	1576.8
55°	1639.5	1648.2	1669.5	1702.9	1729.4	1758.3	1766.5	1766.0	1753.5	1757.0	1762.5
57.5°	1686.8	1699.9	1732.7	1785.3	1839.5	1898.1	1947.7	1984.8	2000.6	2024.4	2018.9
60°	1597.1	1617.9	1666.3	1743.7	1850.7	1973.0	2104.1	2232.2	2341.4	2423.9	2376.5
62.5°	1307.7	1334.7	1393.4	1492.6	1654.5	1850.2	2101.1	2403.8	2733.6	2932.6	2790.5
65°	818.2	846.3	905.9	1012.2	1201.7	1445.0	1785.3	2287.0	2903.3	3203.3	2914.1
67.5°	319.0	334.3	366.6	434.6	576.9	793.4	1135.0	1704.4	2441.4	2704.3	2396.1
70°	159.9	161.4	167.4	179.9	210.5	273.4	416.0	790.2	1400.1	1691.1	1349.8
72.5°	115.5	115.8	118.8	124.3	134.1	148.1	175.2	241.8	455.4	695.9	426.8
75°	88.5	89.5	91.2	94.2	99.5	106.5	116.3	139.3	172.7	200.2	168.4
77.5°	68.2	70.2	71.4	74.2	77.4	82.2	85.0	93.7	109.0	114.8	113.0
80°	51.9	53.6	56.4	58.6	60.9	63.2	62.2	66.2	74.2	78.9	76.4
82.5°	33.1	35.1	43.1	45.1	46.1	47.6	45.9	46.1	49.6	52.6	49.6
85°	21.3	22.6	27.3	29.8	30.1	31.1	30.3	28.6	28.6	26.1	29.3
87.5°	9.8	10.0	12.3	14.5	15.0	13.5	13.3	12.8	10.3	9.8	10.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
2.5°	605.2	605.7	606.0	606.7	607.0	607.0	607.2	607.7
5°	610.0	610.7	611.0	612.0	612.2	612.0	612.5	612.7
7.5°	618.5	619.8	620.3	621.3	620.5	621.5	621.8	621.8
10°	631.0	632.3	632.5	633.5	633.0	633.5	633.5	633.0
12.5°	647.6	647.8	647.1	647.8	646.8	647.3	646.6	646.1
15°	665.9	665.1	663.4	663.4	661.9	662.1	661.9	661.6
17.5°	683.7	682.2	680.9	680.4	679.1	678.9	678.1	678.1
20°	703.2	702.5	701.7	700.7	699.4	698.2	697.9	698.4
22.5°	726.8	726.5	726.5	726.0	724.3	723.0	722.3	722.3
25°	758.3	756.1	756.1	755.8	755.1	754.3	752.8	753.6
27.5°	793.9	792.7	793.7	793.4	792.7	792.7	791.7	791.7
30°	837.8	837.3	838.8	837.5	835.0	834.8	833.8	832.5
32.5°	888.4	887.9	890.2	888.7	884.6	882.4	880.4	879.4
35°	944.8	945.0	947.8	946.8	942.3	940.8	937.3	936.8
37.5°	1006.4	1010.5	1015.2	1016.2	1012.5	1011.5	1007.7	1005.7
40°	1078.9	1084.1	1091.4	1093.2	1089.1	1088.4	1083.1	1080.4
42.5°	1156.1	1165.1	1174.1	1175.6	1171.6	1167.6	1162.6	1160.6
45°	1242.3	1253.0	1264.8	1267.8	1261.8	1257.0	1250.5	1250.5
47.5°	1339.0	1352.5	1365.8	1374.1	1368.6	1363.6	1355.8	1350.8
50°	1453.3	1471.8	1489.1	1497.6	1488.9	1479.3	1465.8	1461.3
52.5°	1596.6	1616.7	1631.7	1627.2	1613.7	1600.4	1585.6	1579.6
55°	1779.6	1786.3	1786.3	1769.3	1742.2	1719.9	1696.6	1688.8
57.5°	2008.4	1982.3	1942.2	1891.3	1827.4	1771.8	1734.2	1716.4
60°	2277.3	2152.0	2010.4	1871.3	1757.0	1662.8	1606.9	1581.3
62.5°	2456.5	2128.7	1845.0	1621.7	1457.3	1343.8	1266.6	1236.5
65°	2295.8	1775.3	1395.4	1128.2	949.1	833.5	757.1	729.0
67.5°	1681.6	1112.4	743.1	532.5	390.2	311.3	279.9	266.9
70°	754.8	391.7	240.1	187.5	161.6	148.4	142.6	140.6
72.5°	227.6	164.6	138.8	125.3	115.0	108.5	103.8	103.3
75°	137.3	114.3	101.5	93.5	87.0	81.7	79.2	78.4
77.5°	96.0	84.0	77.9	72.2	67.2	63.2	60.9	59.1
80°	67.4	61.6	58.9	55.6	52.4	48.6	45.4	43.9
82.5°	45.1	43.9	43.9	41.9	39.1	35.6	29.1	27.6
85°	29.1	28.8	29.3	28.6	26.6	22.8	18.8	17.8
87.5°	13.5	13.8	15.3	15.0	14.5	12.0	9.5	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)