

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: P270140

Luminaire Tested: **GWC-AF-01-LED-E1-5MQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-7027-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6364.9 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 67
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

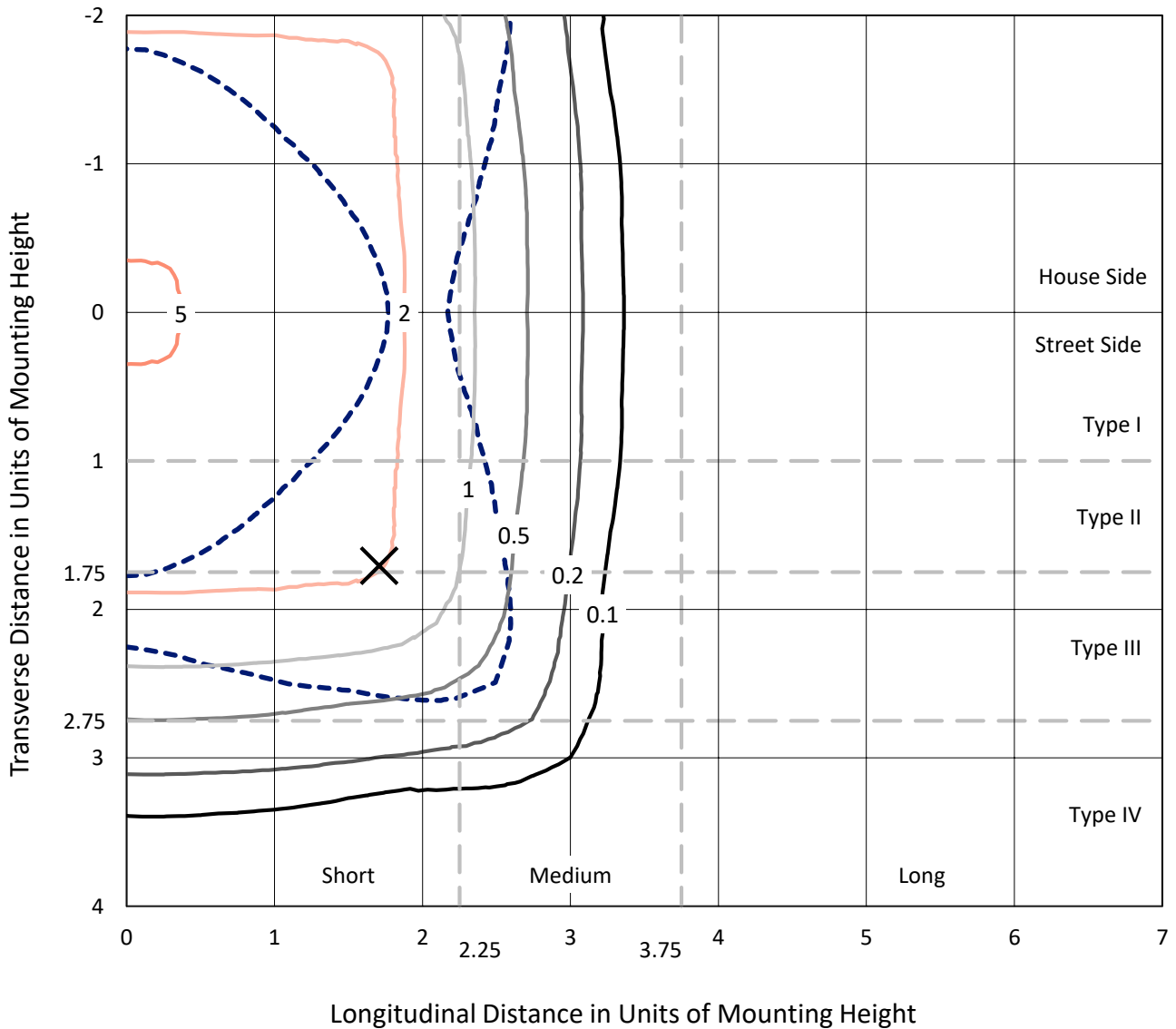


REPORT NUMBER: P270140

CATALOG NUMBER: GWC-AF-01-LED-E1-5MQ-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

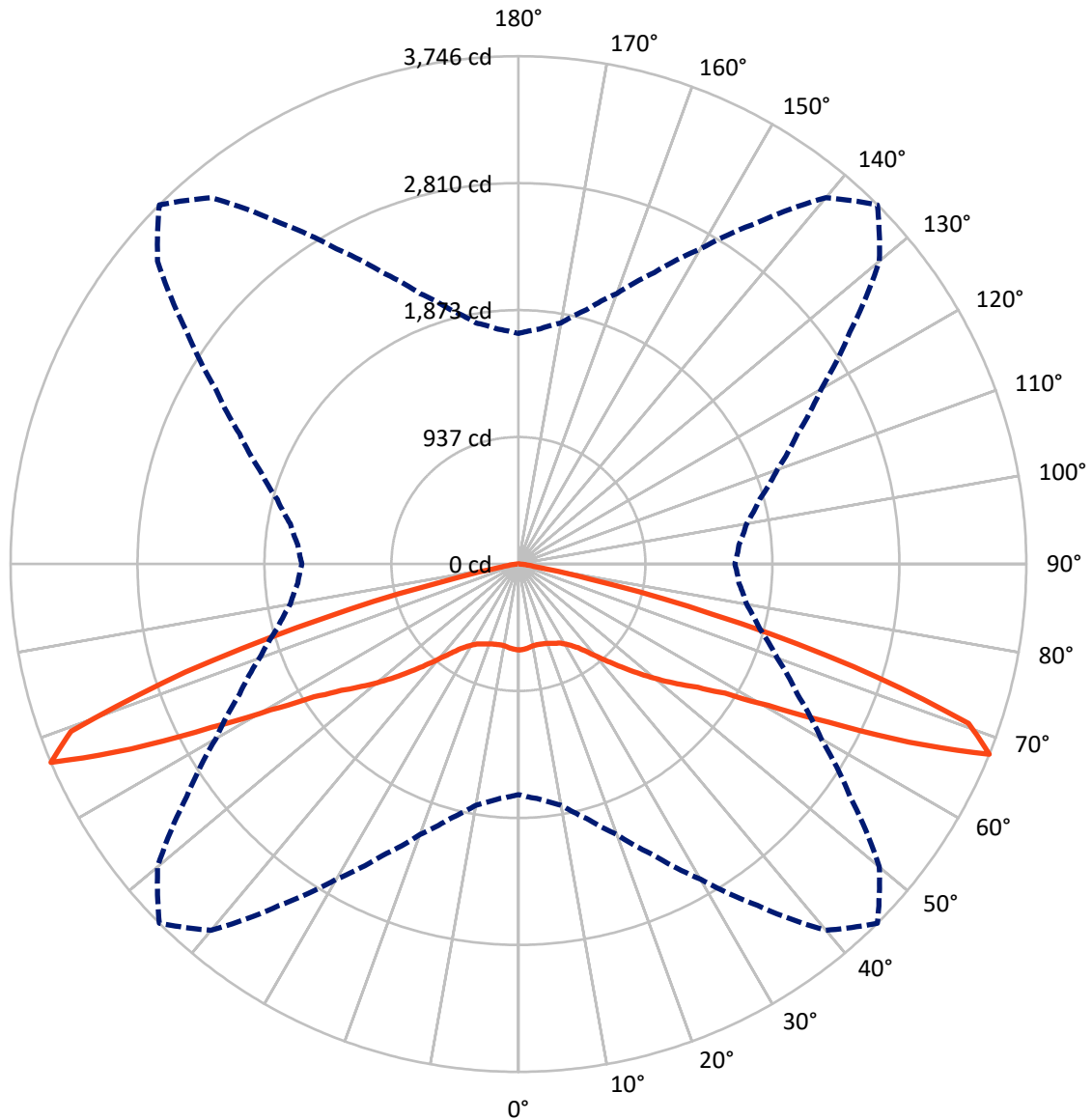


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P270140

CATALOG NUMBER: GWC-AF-01-LED-E1-5MQ-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P270140

CATALOG NUMBER: GWC-AF-01-LED-E1-5MQ-7027-1200

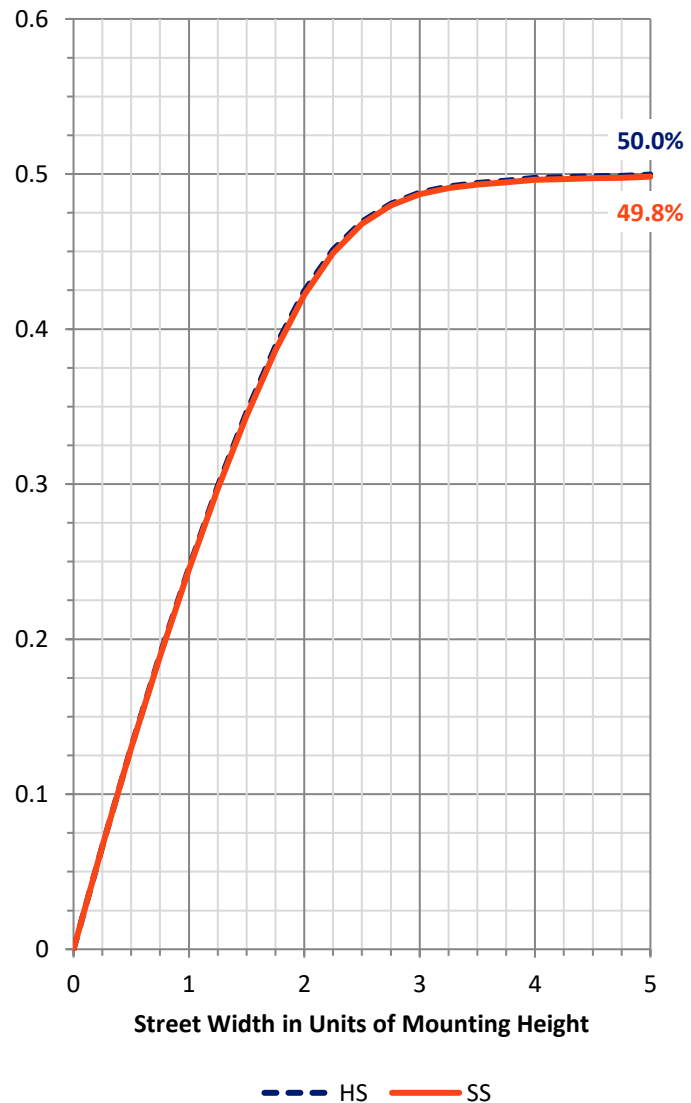
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3182.4	0.0	3182.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3182.4	0.0	3182.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	6364.9	0.0	6364.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	0.9
10°-20°	172.3	2.7
20°-30°	292.9	4.6
30°-40°	478.7	7.5
40°-50°	854.6	13.4
50°-60°	1440.9	22.6
60°-70°	2236.1	35.1
70°-80°	785.7	12.3
80°-90°	44.4	0.7
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°	6364.9	100.0
0°-180°	6364.9	100.0



REPORT NUMBER: P270140

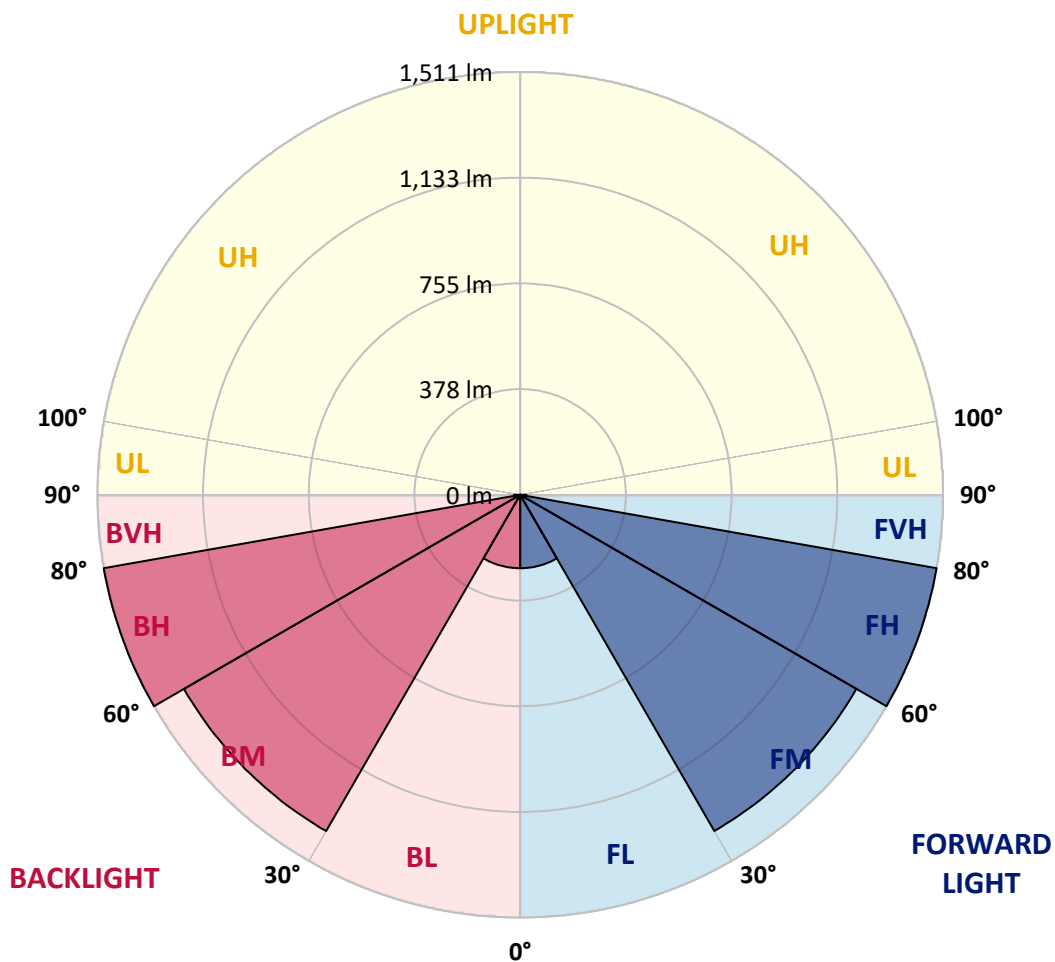
CATALOG NUMBER: GWC-AF-01-LED-E1-5MQ-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.2	4.1			
FM	(30°-60°)	1387.1	21.8			
FH	(60°-80°)	1510.9	23.7			G1/1800
FVH	(80°-90°)	22.2	0.3			G1/100
BL	(0°-30°)	262.2	4.1	B1/500		
BM	(30°-60°)	1387.1	21.8	B2/2500		
BH	(60°-80°)	1510.9	23.7	B3/2500		G1/1800
BVH	(80°-90°)	22.2	0.3			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





REPORT NUMBER: P270140

CATALOG NUMBER: GWC-AF-01-LED-E1-5MQ-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4
2.5°	632.0	632.5	632.5	632.5	632.2	632.2	631.7	632.2	632.0	631.1	631.4
5°	626.7	627.2	627.2	626.9	627.8	627.6	626.7	627.2	626.9	626.4	626.7
7.5°	619.0	619.9	619.9	619.7	620.5	620.2	619.7	619.9	619.9	619.0	619.0
10°	610.6	611.1	611.1	610.8	612.4	612.4	612.0	613.0	613.3	612.4	611.7
12.5°	602.7	603.5	603.5	604.6	606.1	606.7	608.2	609.4	610.6	610.3	609.1
15°	598.0	598.6	599.8	601.2	603.5	605.5	608.0	610.6	613.0	613.5	611.7
17.5°	595.0	595.9	597.7	599.8	602.9	606.4	609.9	613.5	616.7	617.9	615.9
20°	594.1	594.8	596.6	600.1	604.4	609.7	614.7	618.8	623.2	624.6	623.2
22.5°	595.9	597.2	599.2	603.2	609.1	615.9	621.6	627.2	632.9	635.6	633.5
25°	603.8	605.0	607.7	613.0	619.3	626.4	633.1	639.6	644.5	647.1	645.7
27.5°	618.6	619.9	623.2	628.5	635.6	643.0	650.5	655.7	659.7	660.7	658.8
30°	640.4	643.6	647.5	653.2	661.5	668.0	675.3	679.9	685.0	685.0	683.5
32.5°	674.6	678.0	682.1	687.6	694.0	701.0	707.4	711.5	716.8	717.1	713.7
35°	725.9	727.4	731.0	734.5	740.3	746.4	751.9	754.5	759.0	759.2	756.1
37.5°	793.6	793.8	796.2	797.3	802.5	809.4	814.7	816.4	820.4	819.9	816.6
40°	872.3	873.7	874.6	876.3	882.0	888.3	894.0	894.8	899.3	898.3	894.3
42.5°	963.3	963.9	968.8	971.4	976.7	980.1	987.0	987.9	993.2	990.8	986.1
45°	1065.4	1070.7	1075.5	1080.8	1086.2	1090.1	1095.7	1094.5	1097.9	1094.5	1091.8
47.5°	1172.8	1176.7	1187.2	1195.5	1204.4	1207.7	1215.5	1212.2	1215.5	1210.6	1209.7
50°	1291.1	1297.8	1306.9	1316.2	1326.0	1331.2	1341.4	1337.0	1341.8	1337.0	1334.4
52.5°	1407.6	1409.4	1429.3	1443.0	1456.5	1462.6	1468.8	1466.8	1467.0	1466.8	1464.1
55°	1518.2	1522.4	1542.3	1561.0	1584.4	1601.7	1612.2	1611.0	1608.4	1605.8	1601.4
57.5°	1642.9	1647.0	1669.9	1692.9	1719.6	1744.1	1765.6	1787.5	1796.0	1798.3	1788.7
60°	1811.5	1811.3	1841.6	1869.8	1907.8	1944.4	1991.3	2039.0	2093.7	2119.2	2085.5
62.5°	1983.1	1990.0	2034.0	2083.8	2162.2	2238.5	2325.0	2409.9	2496.5	2566.9	2492.1
65°	1962.5	1989.4	2054.9	2167.5	2312.3	2484.4	2670.7	2867.6	3045.7	3168.0	3030.6
67.5°	1700.9	1739.3	1805.8	1942.7	2123.9	2372.1	2684.7	3074.3	3527.0	3746.0	3474.7
70°	1232.8	1276.2	1345.8	1479.6	1659.0	1895.0	2234.5	2702.2	3301.7	3522.4	3223.6
72.5°	613.5	636.9	679.9	765.1	900.9	1092.3	1400.3	1849.9	2380.2	2582.8	2309.7
75°	208.3	219.2	226.6	254.4	297.3	372.5	525.7	808.7	1233.7	1479.0	1216.1
77.5°	120.4	120.6	125.6	130.6	137.9	146.1	166.5	218.6	378.1	537.0	391.3
80°	77.9	77.6	81.7	85.5	90.5	94.5	95.7	101.2	116.8	138.5	123.7
82.5°	40.5	45.4	54.4	59.4	68.8	70.5	68.2	66.1	70.0	72.7	74.3
85°	22.3	19.4	28.9	37.5	41.5	42.1	42.1	39.9	41.2	40.5	43.8
87.5°	10.2	9.3	11.4	18.4	19.7	16.7	17.5	15.5	11.0	10.8	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P270140

CATALOG NUMBER: GWC-AF-01-LED-E1-5MQ-7027-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	634.4	634.4	634.4	634.4	634.4	634.4	634.4	634.4
2.5°	631.4	631.7	631.7	632.5	632.9	633.5	634.1	634.4
5°	626.4	627.2	626.7	627.6	627.6	628.2	628.2	628.5
7.5°	619.0	619.9	619.9	619.9	619.7	620.5	620.5	620.5
10°	611.4	612.0	611.7	611.1	610.6	611.4	611.1	610.8
12.5°	609.1	607.7	606.4	605.8	604.6	605.0	604.1	604.1
15°	610.6	608.0	605.8	605.0	603.8	603.2	602.7	602.9
17.5°	614.4	611.1	608.5	607.1	605.5	604.6	603.5	603.8
20°	621.1	617.3	613.5	610.6	608.0	606.4	605.5	605.3
22.5°	631.1	625.5	619.9	615.6	612.0	609.9	609.1	608.5
25°	642.5	636.3	629.9	625.0	621.4	618.8	617.0	617.0
27.5°	656.8	651.9	646.1	640.1	636.9	634.4	633.1	632.5
30°	680.8	676.2	671.5	666.0	661.8	659.1	657.1	655.4
32.5°	711.5	707.8	703.9	699.9	696.0	692.6	689.3	687.8
35°	754.8	751.9	749.4	744.7	743.2	741.1	739.3	737.9
37.5°	814.7	813.4	813.4	808.5	807.2	806.4	804.6	804.9
40°	893.0	894.3	892.7	890.9	890.1	887.7	887.7	889.9
42.5°	985.8	986.7	989.9	987.0	990.2	987.2	985.5	987.0
45°	1093.5	1096.8	1103.2	1100.2	1102.3	1097.4	1091.3	1091.5
47.5°	1214.4	1217.4	1220.0	1217.9	1218.2	1210.0	1201.8	1199.7
50°	1340.0	1341.2	1342.6	1339.7	1340.4	1331.2	1321.9	1322.1
52.5°	1464.1	1469.6	1475.6	1467.7	1465.9	1455.7	1442.5	1437.2
55°	1606.1	1614.0	1607.2	1593.5	1579.7	1565.9	1548.7	1545.8
57.5°	1781.1	1767.7	1746.6	1720.6	1701.5	1682.2	1664.6	1657.4
60°	2024.6	1973.9	1935.9	1897.3	1873.1	1849.3	1826.2	1822.8
62.5°	2368.8	2281.3	2205.5	2125.6	2060.4	2009.4	1968.7	1957.2
65°	2800.2	2593.3	2413.9	2246.5	2101.0	1991.3	1922.3	1891.7
67.5°	2985.8	2577.2	2269.7	2032.0	1841.6	1708.8	1634.1	1596.9
70°	2623.8	2137.3	1802.8	1564.8	1391.6	1249.8	1182.2	1142.5
72.5°	1805.1	1359.7	1075.1	877.6	739.0	620.5	573.7	570.2
75°	810.5	536.7	370.0	285.1	239.9	208.6	199.1	191.7
77.5°	226.8	167.8	149.6	140.0	130.6	119.7	115.6	116.5
80°	110.3	104.3	100.2	94.0	85.5	76.4	72.4	74.1
82.5°	73.2	72.4	74.9	70.5	58.2	49.4	41.5	38.1
85°	44.5	45.0	46.0	46.3	39.3	27.5	18.8	21.1
87.5°	17.5	20.2	22.0	22.8	21.4	13.1	10.5	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)