

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: P200222

Luminaire Tested: **GWC-AF-02-LED-E1-5MQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200222
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-02-LED-E1-5MQ-7050-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10544 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 86
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

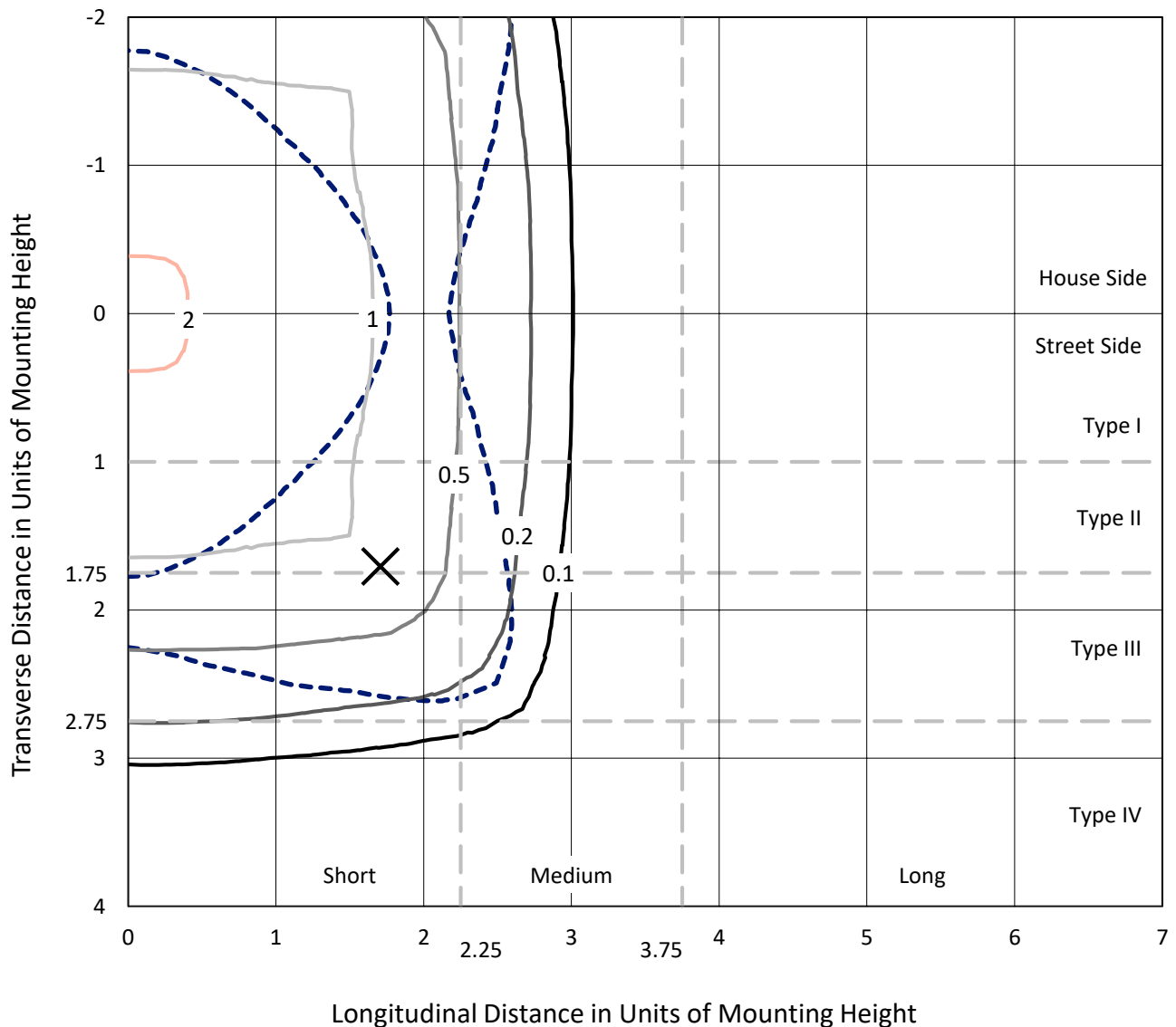


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Iso-Footcandle Lines of Horizontal Illumination

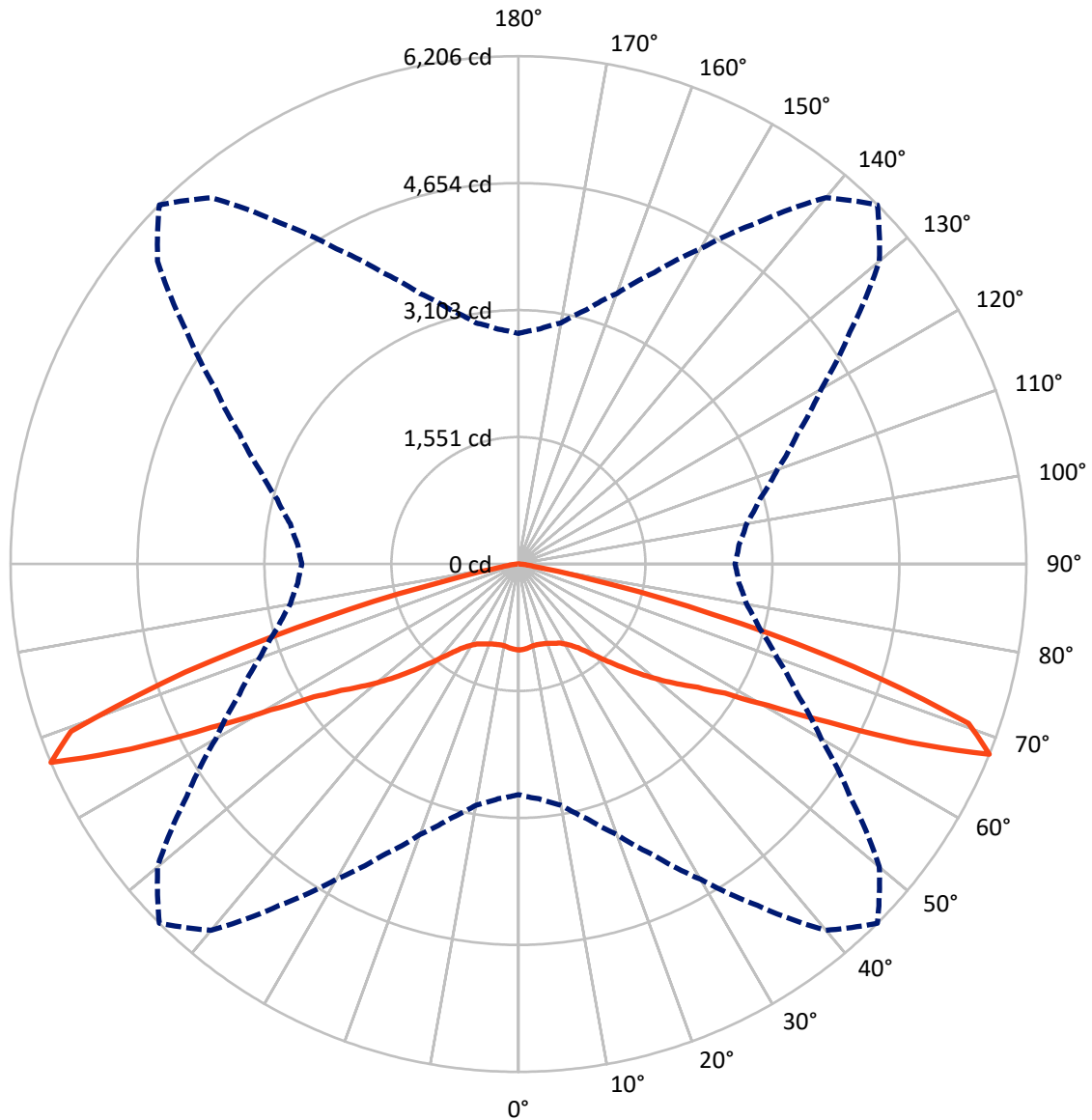
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5272.0	0.0	5272.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5272.0	0.0	5272.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10544.0	0.0	10544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	0.9
10°-20°	285.4	2.7
20°-30°	485.1	4.6
30°-40°	793.1	7.5
40°-50°	1415.7	13.4
50°-60°	2387.0	22.6
60°-70°	3704.3	35.1
70°-80°	1301.5	12.3
80°-90°	73.6	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°	10544.0	100.0
0°-180°	10544.0	100.0

Coefficient of Utilization



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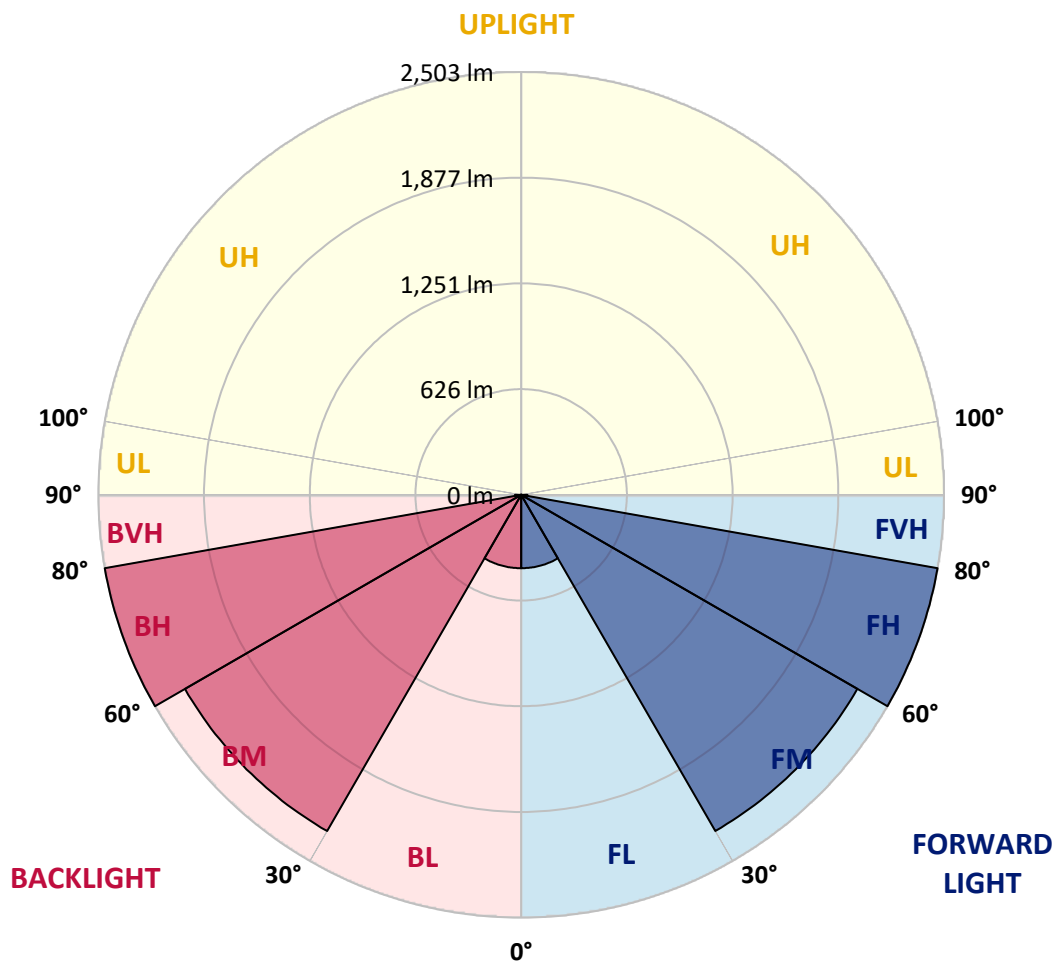
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	434.4	4.1			
FM	(30°-60°)	2297.9	21.8			
FH	(60°-80°)	2502.9	23.7			G2/5000
FVH	(80°-90°)	36.8	0.3			G1/100
BL	(0°-30°)	434.4	4.1	B1/500		
BM	(30°-60°)	2297.9	21.8	B2/2500		
BH	(60°-80°)	2502.9	23.7	B4/5000		G2/5000
BVH	(80°-90°)	36.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8
2.5°	1046.9	1047.8	1047.8	1047.8	1047.4	1047.4	1046.4	1047.4	1046.9	1045.4	1045.9
5°	1038.1	1039.1	1039.1	1038.6	1040.1	1039.6	1038.1	1039.1	1038.6	1037.7	1038.1
7.5°	1025.5	1027.0	1027.0	1026.5	1028.0	1027.5	1026.5	1027.0	1027.0	1025.5	1025.5
10°	1011.5	1012.4	1012.4	1012.0	1014.4	1014.4	1013.9	1015.4	1015.8	1014.4	1013.4
12.5°	998.4	999.8	999.8	1001.8	1004.2	1005.2	1007.6	1009.5	1011.5	1011.0	1009.1
15°	990.6	991.6	993.5	996.0	999.8	1003.2	1007.1	1011.5	1015.4	1016.3	1013.4
17.5°	985.8	987.2	990.1	993.5	998.9	1004.7	1010.5	1016.3	1021.7	1023.6	1020.2
20°	984.3	985.3	988.2	994.0	1001.3	1010.0	1018.3	1025.1	1032.3	1034.8	1032.3
22.5°	987.2	989.2	992.6	999.4	1009.1	1020.2	1029.9	1039.1	1048.3	1052.7	1049.3
25°	1000.3	1002.3	1006.6	1015.4	1026.0	1037.7	1048.8	1059.5	1067.7	1072.1	1069.7
27.5°	1024.6	1027.0	1032.3	1041.1	1052.7	1065.3	1077.4	1086.2	1092.9	1094.4	1091.5
30°	1060.9	1066.3	1072.6	1082.3	1095.8	1106.5	1118.6	1126.4	1134.6	1134.6	1132.2
32.5°	1117.7	1123.0	1129.8	1139.0	1149.7	1161.3	1172.0	1178.8	1187.5	1188.0	1182.2
35°	1202.5	1204.9	1210.8	1216.6	1226.3	1236.5	1245.7	1250.0	1257.3	1257.8	1252.5
37.5°	1314.5	1315.0	1318.9	1320.8	1329.6	1340.7	1349.4	1352.4	1359.1	1358.2	1352.8
40°	1445.0	1447.4	1448.8	1451.8	1461.0	1471.6	1480.9	1482.3	1489.6	1488.1	1481.3
42.5°	1595.8	1596.7	1605.0	1609.3	1618.1	1623.4	1635.0	1636.5	1645.2	1641.3	1633.6
45°	1765.0	1773.7	1781.5	1790.2	1799.4	1805.7	1814.9	1813.0	1818.8	1813.0	1808.6
47.5°	1942.9	1949.3	1966.7	1980.3	1995.3	2000.7	2013.7	2007.9	2013.7	2005.5	2004.0
50°	2138.8	2150.0	2165.0	2180.5	2196.5	2205.3	2222.2	2215.0	2222.7	2215.0	2210.6
52.5°	2331.8	2334.7	2367.7	2390.5	2412.8	2423.0	2433.2	2429.8	2430.3	2429.8	2425.4
55°	2515.1	2521.9	2554.9	2585.9	2624.7	2653.3	2670.8	2668.8	2664.5	2660.1	2652.8
57.5°	2721.7	2728.5	2766.3	2804.6	2848.7	2889.5	2924.8	2961.2	2975.3	2979.2	2963.2
60°	3001.0	3000.5	3050.9	3097.5	3160.5	3221.1	3298.7	3377.7	3468.4	3510.6	3454.8
62.5°	3285.1	3296.8	3369.5	3451.9	3581.9	3708.4	3851.5	3992.1	4135.6	4252.5	4128.3
65°	3251.2	3295.8	3403.9	3590.6	3830.6	4115.7	4424.1	4750.5	5045.3	5248.0	5020.5
67.5°	2817.7	2881.2	2991.3	3218.2	3518.4	3929.5	4447.4	5092.8	5842.9	6205.6	5756.1
70°	2042.4	2114.1	2229.5	2451.1	2748.3	3139.2	3701.6	4476.5	5469.5	5835.2	5340.1
72.5°	1016.3	1055.1	1126.4	1267.5	1492.5	1809.6	2319.7	3064.5	3943.1	4278.7	3826.3
75°	345.2	363.2	375.3	421.4	492.6	617.3	870.9	1339.7	2043.8	2450.1	2014.7
77.5°	199.3	199.8	208.0	216.3	228.4	242.0	275.9	362.2	626.5	889.8	648.3
80°	129.0	128.5	135.3	141.6	149.8	156.6	158.6	167.8	193.5	229.4	205.1
82.5°	66.9	75.2	90.2	98.4	113.9	116.9	113.0	109.6	115.9	120.3	123.2
85°	36.9	32.0	48.0	62.1	68.9	69.8	69.8	65.9	68.4	66.9	72.7
87.5°	17.0	15.5	18.9	30.5	32.5	27.6	29.1	25.7	18.4	17.9	20.4
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°	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8
2.5°	1045.9	1046.4	1046.4	1047.8	1048.3	1049.3	1050.3	1050.8
5°	1037.7	1039.1	1038.1	1039.6	1039.6	1040.6	1040.6	1041.1
7.5°	1025.5	1027.0	1027.0	1027.0	1026.5	1028.0	1028.0	1028.0
10°	1012.9	1013.9	1013.4	1012.4	1011.5	1012.9	1012.4	1012.0
12.5°	1009.1	1006.6	1004.7	1003.7	1001.8	1002.3	1000.8	1000.8
15°	1011.5	1007.1	1003.7	1002.3	1000.3	999.4	998.4	998.9
17.5°	1017.8	1012.4	1008.1	1005.7	1003.2	1001.8	999.8	1000.3
20°	1028.9	1022.6	1016.3	1011.5	1007.1	1004.7	1003.2	1002.8
22.5°	1045.4	1036.2	1027.0	1019.7	1013.9	1010.5	1009.1	1008.1
25°	1064.3	1054.1	1043.5	1035.2	1029.4	1025.1	1022.1	1022.1
27.5°	1088.1	1079.8	1070.1	1060.5	1055.1	1050.8	1048.8	1047.8
30°	1127.9	1120.1	1112.3	1103.1	1096.3	1092.0	1088.6	1085.7
32.5°	1178.8	1172.5	1166.2	1159.4	1153.1	1147.2	1141.9	1139.5
35°	1250.5	1245.7	1241.3	1233.6	1231.1	1227.7	1224.8	1222.4
37.5°	1349.4	1347.5	1347.5	1339.3	1337.3	1335.9	1333.0	1333.4
40°	1479.4	1481.3	1478.9	1476.0	1474.5	1470.7	1470.7	1474.1
42.5°	1633.1	1634.6	1639.9	1635.0	1640.4	1635.5	1632.6	1635.0
45°	1811.5	1816.9	1827.5	1822.7	1826.1	1817.8	1807.7	1808.2
47.5°	2011.8	2016.7	2021.0	2017.6	2018.1	2004.5	1991.0	1987.6
50°	2219.8	2221.8	2224.2	2219.3	2220.3	2205.3	2189.8	2190.2
52.5°	2425.4	2434.6	2444.3	2431.2	2428.3	2411.4	2389.5	2380.8
55°	2660.6	2673.7	2662.5	2639.7	2616.9	2594.2	2565.5	2560.7
57.5°	2950.5	2928.2	2893.3	2850.2	2818.7	2786.7	2757.6	2745.4
60°	3354.0	3270.1	3207.1	3143.0	3102.8	3063.5	3025.2	3019.4
62.5°	3924.2	3779.2	3653.6	3521.3	3413.1	3328.8	3261.4	3242.5
65°	4638.9	4296.1	3998.9	3721.5	3480.5	3298.7	3184.3	3133.8
67.5°	4946.4	4269.4	3759.8	3366.1	3050.9	2830.8	2707.1	2645.6
70°	4346.5	3540.7	2986.4	2592.2	2305.2	2070.5	1958.5	1892.5
72.5°	2990.3	2252.3	1781.0	1453.7	1224.3	1028.0	950.4	944.6
75°	1342.7	889.3	612.9	472.3	397.6	345.7	329.7	317.6
77.5°	375.8	277.8	247.8	231.8	216.3	198.3	191.5	193.0
80°	182.8	172.6	165.8	155.6	141.6	126.6	119.8	122.7
82.5°	121.2	119.8	124.1	116.9	96.5	81.9	68.9	63.0
85°	73.7	74.7	76.1	76.6	65.0	45.6	31.0	34.9
87.5°	29.1	33.5	36.4	37.8	35.4	21.8	17.5	17.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)