

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: P200544

Luminaire Tested: **GPC-AF-02-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200544
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: GPC-AF-02-LED-E1-5MQ-8030
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10649 lumens
Efficiency: N/A
Efficacy: 94.2 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

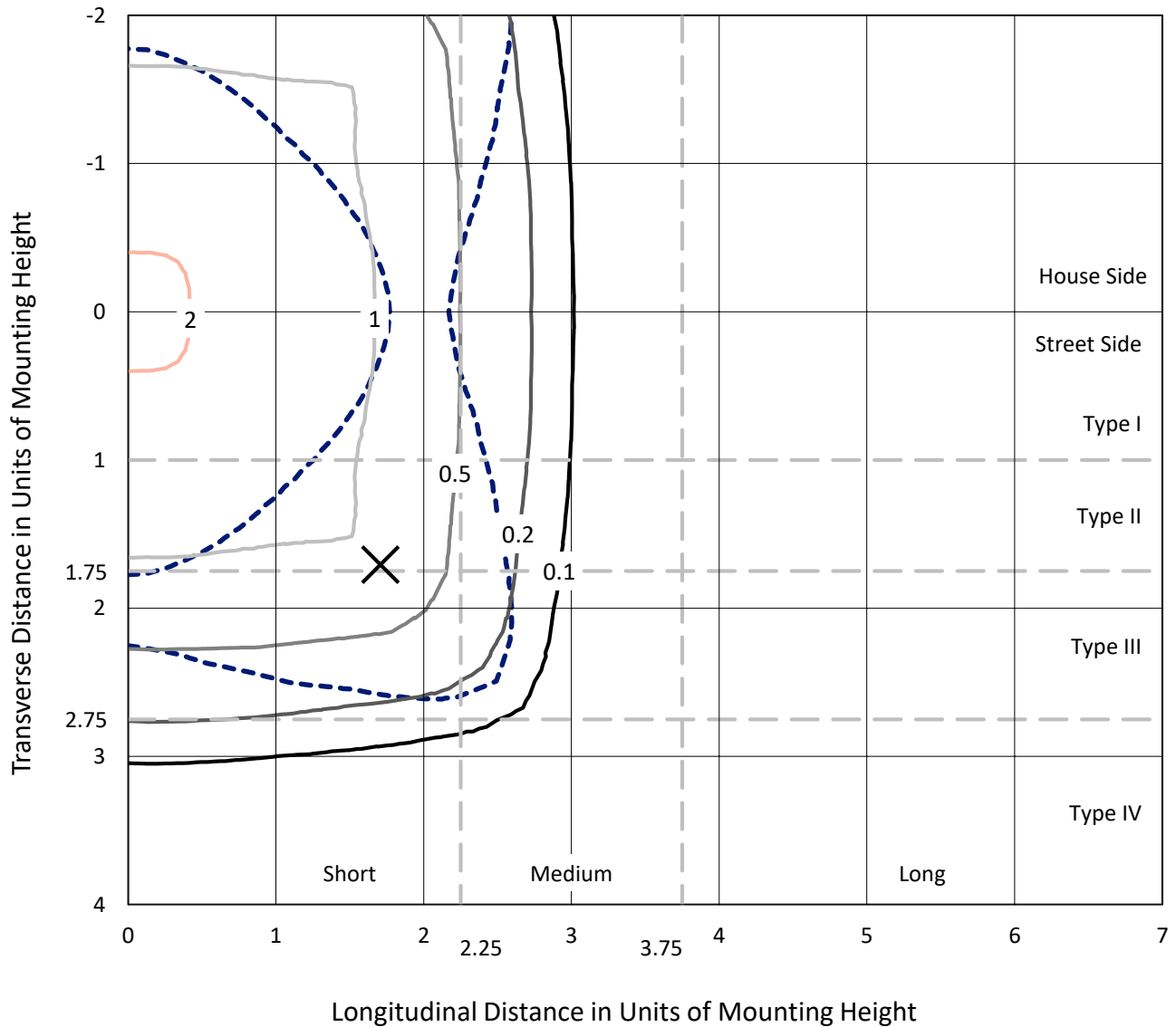
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

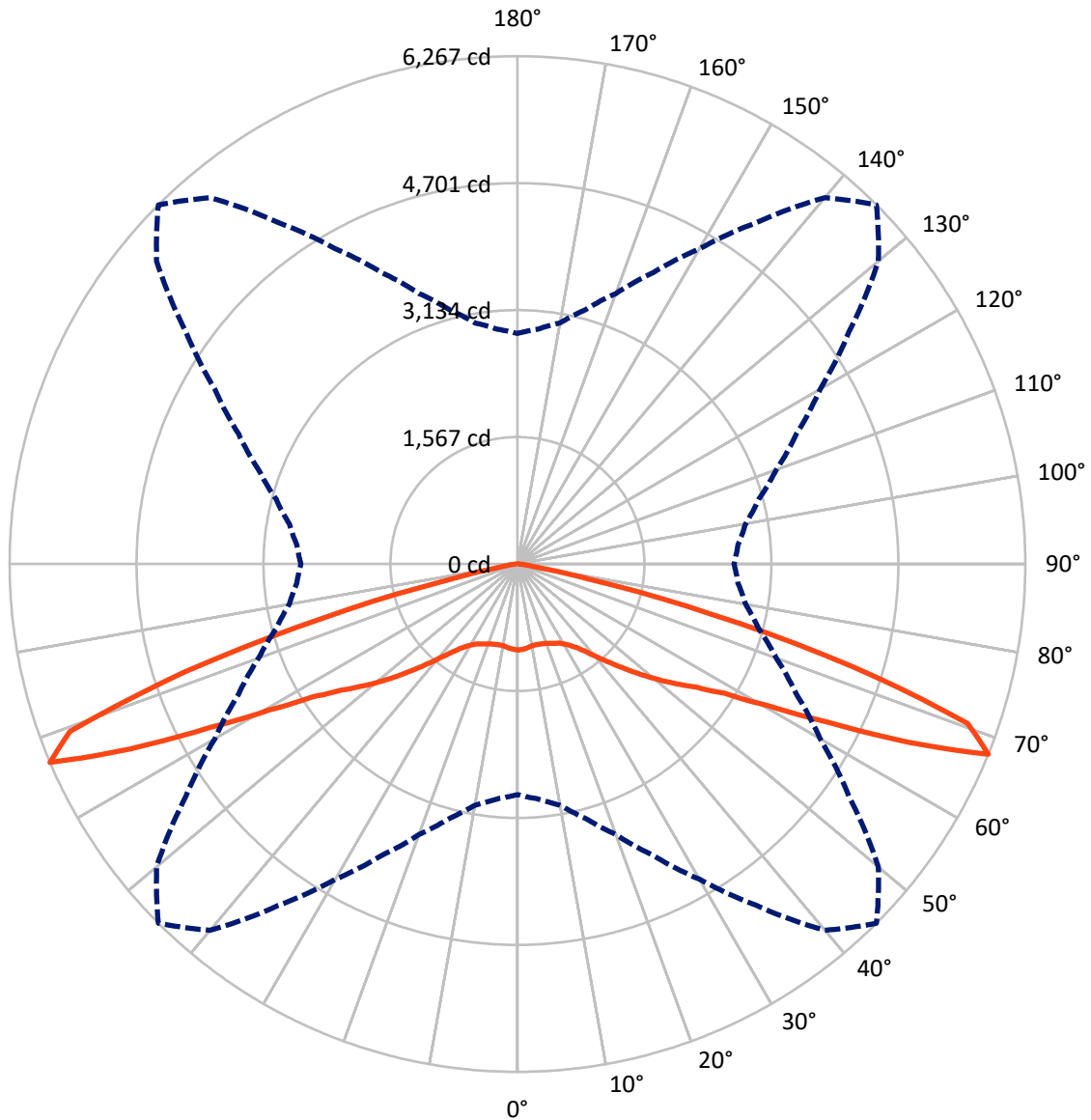
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.7 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	5324.5	0.0	5324.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5324.5	0.0	5324.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10649.0	0.0	10649.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	0.9
10°-20°	288.2	2.7
20°-30°	490.0	4.6
30°-40°	800.9	7.5
40°-50°	1429.8	13.4
50°-60°	2410.8	22.6
60°-70°	3741.2	35.1
70°-80°	1314.5	12.3
80°-90°	74.3	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°	10649.0	100.0
0°-180°	10649.0	100.0



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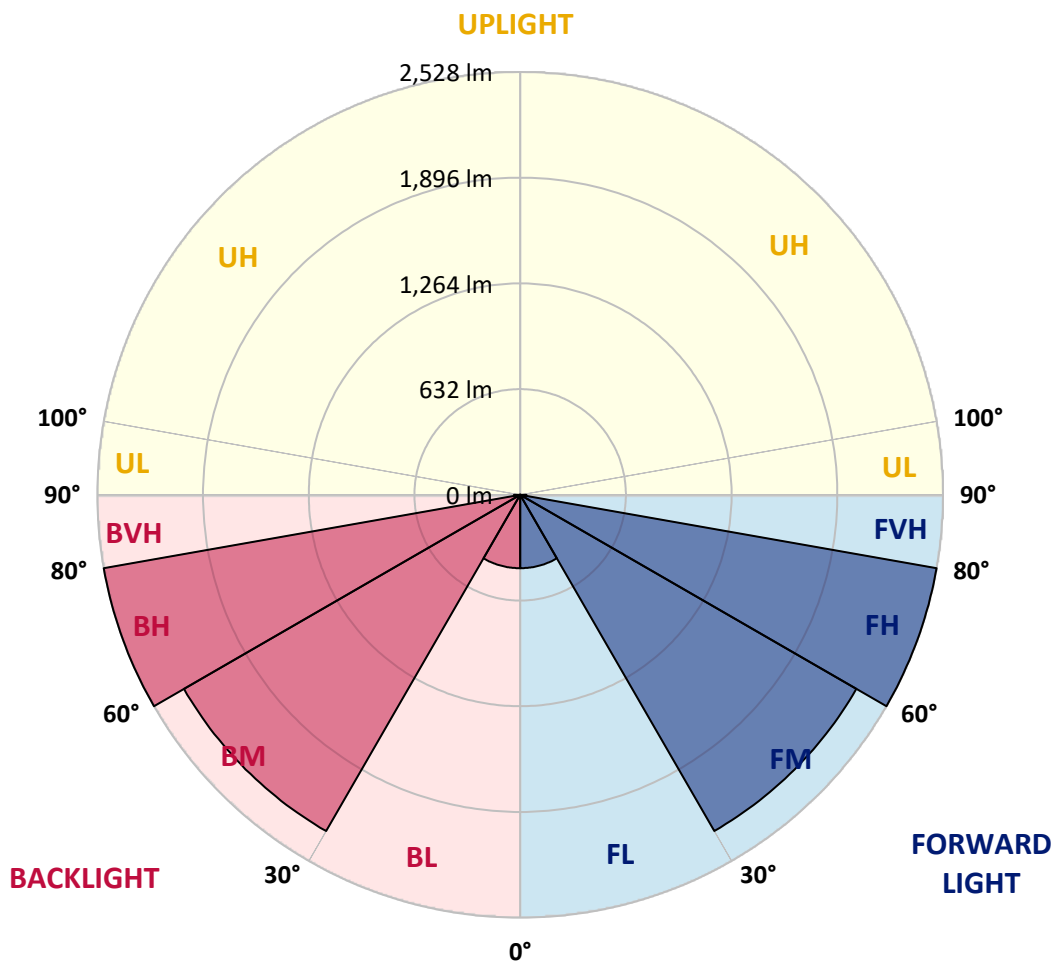
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	438.8	4.1			
FM	(30°-60°)	2320.8	21.8			
FH	(60°-80°)	2527.8	23.7			G2/5000
FVH	(80°-90°)	37.1	0.3			G1/100
BL	(0°-30°)	438.8	4.1	B1/500		
BM	(30°-60°)	2320.8	21.8	B2/2500		
BH	(60°-80°)	2527.8	23.7	B4/5000		G2/5000
BVH	(80°-90°)	37.1	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°	1061.2	1061.2	1061.2	1061.2	1061.2	1061.2	1061.2	1061.2	1061.2	1061.2	1061.2
2.5°	1057.3	1058.3	1058.3	1058.3	1057.8	1057.8	1056.8	1057.8	1057.3	1055.8	1056.3
5°	1048.5	1049.5	1049.5	1049.0	1050.4	1050.0	1048.5	1049.5	1049.0	1048.0	1048.5
7.5°	1035.8	1037.2	1037.2	1036.7	1038.2	1037.7	1036.7	1037.2	1037.2	1035.8	1035.8
10°	1021.6	1022.5	1022.5	1022.0	1024.5	1024.5	1024.0	1025.5	1026.0	1024.5	1023.5
12.5°	1008.3	1009.8	1009.8	1011.8	1014.2	1015.2	1017.6	1019.6	1021.6	1021.1	1019.1
15°	1000.5	1001.5	1003.4	1005.9	1009.8	1013.2	1017.1	1021.6	1025.5	1026.4	1023.5
17.5°	995.6	997.1	1000.0	1003.4	1008.8	1014.7	1020.6	1026.4	1031.8	1033.8	1030.4
20°	994.1	995.1	998.0	1003.9	1011.3	1020.1	1028.4	1035.3	1042.6	1045.1	1042.6
22.5°	997.1	999.0	1002.5	1009.3	1019.1	1030.4	1040.2	1049.5	1058.8	1063.2	1059.7
25°	1010.3	1012.2	1016.7	1025.5	1036.2	1048.0	1059.3	1070.0	1078.4	1082.8	1080.3
27.5°	1034.8	1037.2	1042.6	1051.4	1063.2	1075.9	1088.2	1097.0	1103.8	1105.3	1102.4
30°	1071.5	1076.9	1083.3	1093.0	1106.8	1117.5	1129.8	1137.6	1145.9	1145.9	1143.5
32.5°	1128.8	1134.2	1141.0	1150.3	1161.1	1172.9	1183.6	1190.5	1199.3	1199.8	1193.9
35°	1214.5	1216.9	1222.8	1228.7	1238.5	1248.8	1258.1	1262.5	1269.8	1270.3	1264.9
37.5°	1327.6	1328.1	1332.0	1334.0	1342.8	1354.1	1362.9	1365.8	1372.7	1371.7	1366.3
40°	1459.4	1461.8	1463.3	1466.2	1475.5	1486.3	1495.6	1497.1	1504.4	1502.9	1496.1
42.5°	1611.7	1612.6	1621.0	1625.4	1634.2	1639.6	1651.3	1652.8	1661.6	1657.7	1649.9
45°	1782.6	1791.4	1799.2	1808.0	1817.3	1823.7	1833.0	1831.1	1836.9	1831.1	1826.6
47.5°	1962.3	1968.7	1986.3	2000.0	2015.2	2020.6	2033.8	2027.9	2033.8	2025.5	2024.0
50°	2160.1	2171.4	2186.6	2202.3	2218.4	2227.2	2244.4	2237.0	2244.9	2237.0	2232.6
52.5°	2355.1	2358.0	2391.3	2414.3	2436.8	2447.1	2457.4	2454.0	2454.5	2454.0	2449.6
55°	2540.2	2547.0	2580.3	2611.7	2650.8	2679.7	2697.4	2695.4	2691.0	2686.6	2679.2
57.5°	2748.8	2755.6	2793.8	2832.5	2877.1	2918.2	2954.0	2990.7	3004.9	3008.8	2992.7
60°	3030.9	3030.4	3081.3	3128.3	3192.0	3253.2	3331.5	3411.4	3502.9	3545.6	3489.2
62.5°	3317.8	3329.6	3403.0	3486.3	3617.5	3745.4	3889.8	4031.8	4176.8	4294.8	4169.5
65°	3283.6	3328.6	3437.8	3626.4	3868.8	4156.7	4468.2	4797.8	5095.5	5300.2	5070.5
67.5°	2845.7	2909.9	3021.1	3250.3	3553.4	3968.7	4491.7	5143.5	5901.1	6267.4	5813.4
70°	2062.7	2135.2	2251.7	2475.5	2775.7	3170.4	3738.5	4521.1	5524.0	5893.3	5393.3
72.5°	1026.4	1065.6	1137.6	1280.1	1507.4	1827.6	2342.8	3095.0	3982.4	4321.3	3864.4
75°	348.7	366.8	379.0	425.6	497.6	623.4	879.5	1353.1	2064.2	2474.5	2034.8
77.5°	201.3	201.8	210.1	218.4	230.7	244.4	278.6	365.8	632.7	898.6	654.8
80°	130.3	129.8	136.6	143.0	151.3	158.2	160.1	169.4	195.4	231.6	207.2
82.5°	67.6	75.9	91.1	99.4	115.1	118.0	114.1	110.7	117.0	121.4	124.4
85°	37.2	32.3	48.5	62.7	69.5	70.5	70.5	66.6	69.1	67.6	73.5
87.5°	17.1	15.7	19.1	30.9	32.8	27.9	29.4	26.0	18.6	18.1	20.6
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°	1061.2	1061.2	1061.2	1061.2	1061.2	1061.2	1061.2	1061.2
2.5°	1056.3	1056.8	1056.8	1058.3	1058.8	1059.7	1060.7	1061.2
5°	1048.0	1049.5	1048.5	1050.0	1050.0	1050.9	1050.9	1051.4
7.5°	1035.8	1037.2	1037.2	1037.2	1036.7	1038.2	1038.2	1038.2
10°	1023.0	1024.0	1023.5	1022.5	1021.6	1023.0	1022.5	1022.0
12.5°	1019.1	1016.7	1014.7	1013.7	1011.8	1012.2	1010.8	1010.8
15°	1021.6	1017.1	1013.7	1012.2	1010.3	1009.3	1008.3	1008.8
17.5°	1027.9	1022.5	1018.1	1015.7	1013.2	1011.8	1009.8	1010.3
20°	1039.2	1032.8	1026.4	1021.6	1017.1	1014.7	1013.2	1012.7
22.5°	1055.8	1046.5	1037.2	1029.9	1024.0	1020.6	1019.1	1018.1
25°	1074.9	1064.6	1053.9	1045.5	1039.7	1035.3	1032.3	1032.3
27.5°	1098.9	1090.6	1080.8	1071.0	1065.6	1061.2	1059.3	1058.3
30°	1139.1	1131.2	1123.4	1114.1	1107.3	1102.8	1099.4	1096.5
32.5°	1190.5	1184.1	1177.8	1170.9	1164.5	1158.7	1153.3	1150.8
35°	1263.0	1258.1	1253.7	1245.8	1243.4	1240.0	1237.0	1234.6
37.5°	1362.9	1360.9	1360.9	1352.6	1350.6	1349.2	1346.2	1346.7
40°	1494.1	1496.1	1493.6	1490.7	1489.2	1485.3	1485.3	1488.7
42.5°	1649.4	1650.8	1656.2	1651.3	1656.7	1651.8	1648.9	1651.3
45°	1829.6	1835.0	1845.7	1840.8	1844.3	1836.0	1825.7	1826.2
47.5°	2031.8	2036.7	2041.1	2037.7	2038.2	2024.5	2010.8	2007.4
50°	2241.9	2243.9	2246.3	2241.4	2242.4	2227.2	2211.6	2212.1
52.5°	2449.6	2458.9	2468.7	2455.4	2452.5	2435.4	2413.3	2404.5
55°	2687.1	2700.3	2689.0	2666.0	2643.0	2620.0	2591.1	2586.2
57.5°	2979.9	2957.4	2922.1	2878.6	2846.7	2814.4	2785.0	2772.8
60°	3387.4	3302.7	3239.0	3174.3	3133.7	3094.0	3055.3	3049.5
62.5°	3963.3	3816.9	3690.0	3556.3	3447.1	3361.9	3293.8	3274.7
65°	4685.1	4338.9	4038.7	3758.6	3515.2	3331.5	3216.0	3165.0
67.5°	4995.6	4312.0	3797.3	3399.6	3081.3	2859.0	2734.1	2671.9
70°	4389.8	3575.9	3016.2	2618.0	2328.1	2091.1	1978.0	1911.4
72.5°	3020.1	2274.7	1798.7	1468.2	1236.5	1038.2	959.8	954.0
75°	1356.0	898.1	619.0	477.0	401.6	349.2	333.0	320.8
77.5°	379.5	280.6	250.2	234.1	218.4	200.3	193.4	194.9
80°	184.6	174.3	167.5	157.2	143.0	127.8	121.0	123.9
82.5°	122.4	121.0	125.4	118.0	97.5	82.8	69.5	63.7
85°	74.4	75.4	76.9	77.4	65.6	46.0	31.3	35.3
87.5°	29.4	33.8	36.7	38.2	35.7	22.0	17.6	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)