

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: P200064

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200064
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
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 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: 13349.5 lumens
Efficiency: N/A
Efficacy: 118.1 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

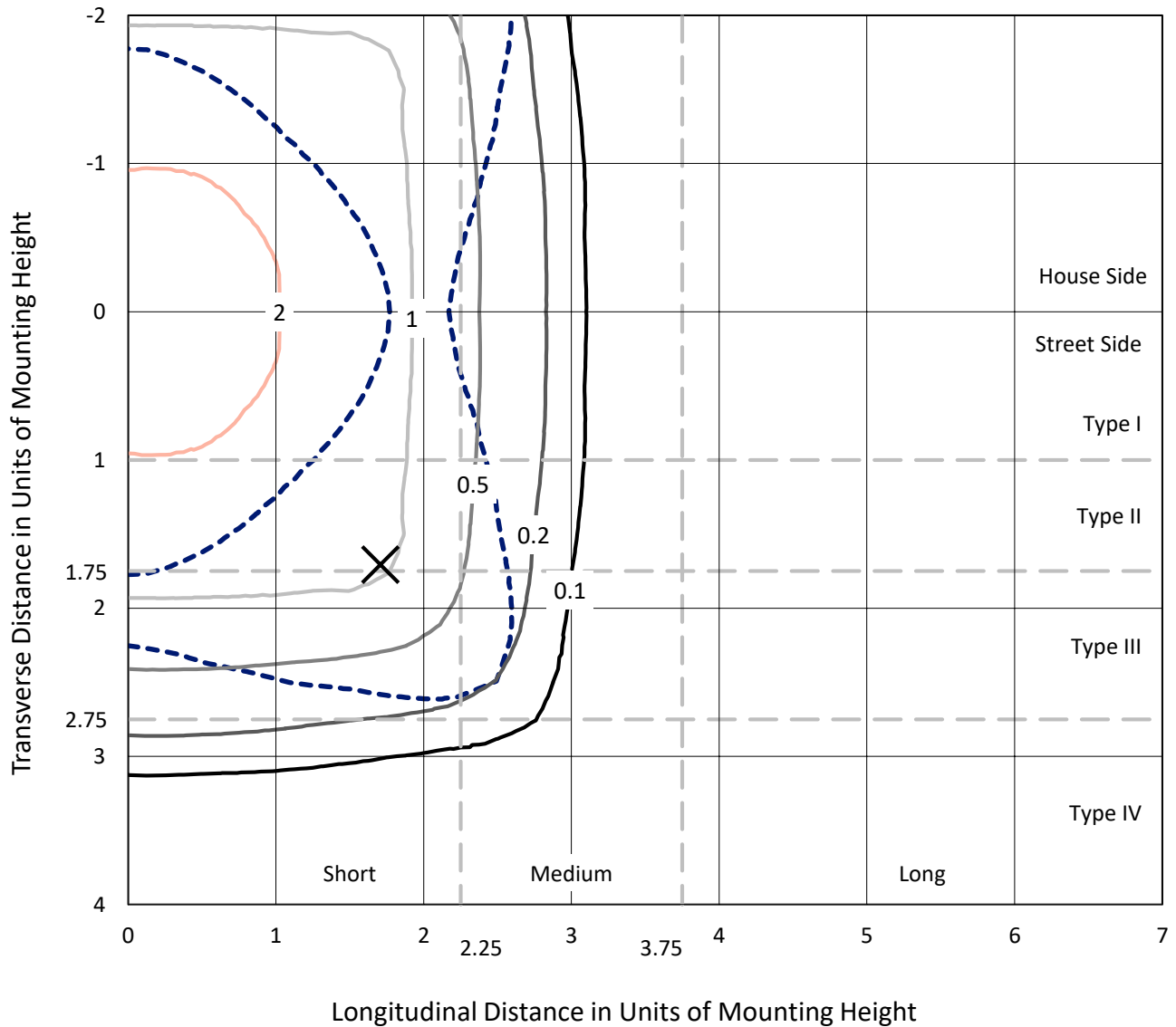


REPORT NUMBER: P200064

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

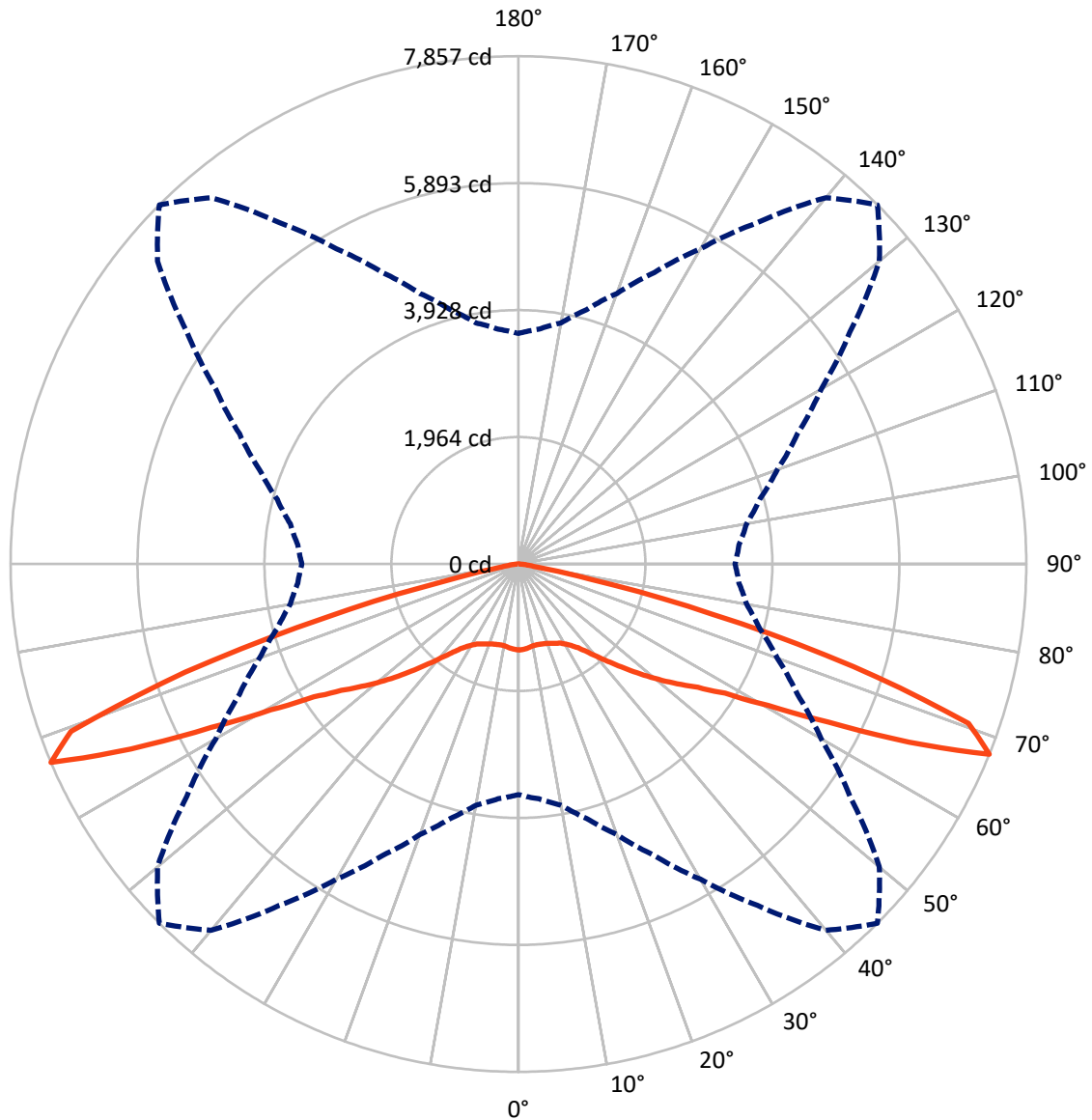


Based on 20 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P200064

CATALOG NUMBER: GPC-AF-02-LED-E1-5MQ

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	6674.8	0.0	6674.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6674.8	0.0	6674.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	13349.5	0.0	13349.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	0.9
10°-20°	361.3	2.7
20°-30°	614.2	4.6
30°-40°	1004.1	7.5
40°-50°	1792.4	13.4
50°-60°	3022.1	22.6
60°-70°	4689.9	35.1
70°-80°	1647.8	12.3
80°-90°	93.1	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°	13349.5	100.0
0°-180°	13349.5	100.0



REPORT NUMBER: P200064

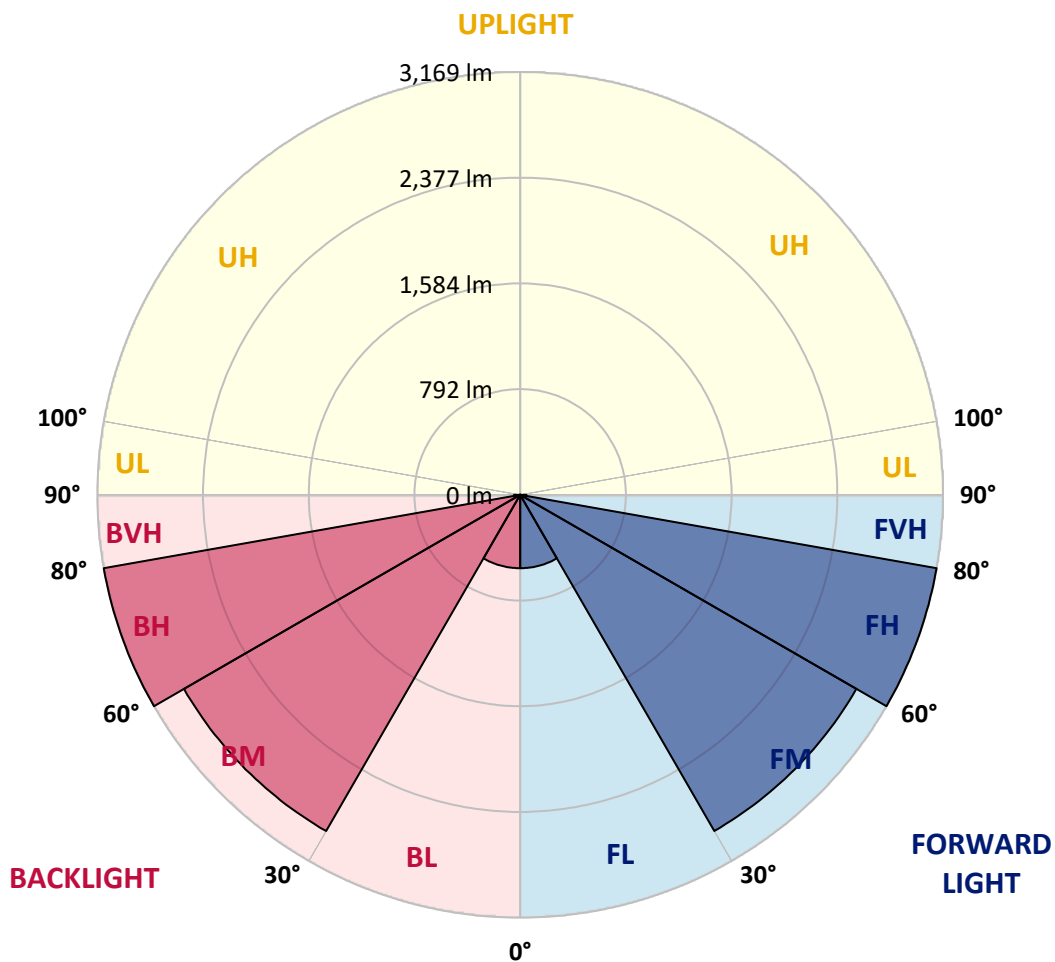
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.0	4.1			
FM	(30°-60°)	2909.3	21.8			
FH	(60°-80°)	3168.9	23.7			G2/5000
FVH	(80°-90°)	46.6	0.3			G1/100
BL	(0°-30°)	550.0	4.1	B2/1000		
BM	(30°-60°)	2909.3	21.8	B3/5000		
BH	(60°-80°)	3168.9	23.7	B4/5000		G2/5000
BVH	(80°-90°)	46.6	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





REPORT NUMBER: P200064

CATALOG NUMBER: GPC-AF-02-LED-E1-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1330.3	1330.3	1330.3	1330.3	1330.3	1330.3	1330.3	1330.3	1330.3	1330.3	1330.3
2.5°	1325.4	1326.7	1326.7	1326.7	1326.1	1326.1	1324.8	1326.1	1325.4	1323.6	1324.2
5°	1314.4	1315.6	1315.6	1315.0	1316.8	1316.2	1314.4	1315.6	1315.0	1313.8	1314.4
7.5°	1298.4	1300.3	1300.3	1299.7	1301.5	1300.9	1299.7	1300.3	1300.3	1298.4	1298.4
10°	1280.6	1281.9	1281.9	1281.2	1284.3	1284.3	1283.7	1285.5	1286.2	1284.3	1283.1
12.5°	1264.1	1265.9	1265.9	1268.4	1271.4	1272.7	1275.7	1278.2	1280.6	1280.0	1277.6
15°	1254.2	1255.5	1257.9	1261.0	1265.9	1270.2	1275.1	1280.6	1285.5	1286.8	1283.1
17.5°	1248.1	1249.9	1253.6	1257.9	1264.7	1272.0	1279.4	1286.8	1293.5	1296.0	1291.7
20°	1246.3	1247.5	1251.2	1258.5	1267.7	1278.8	1289.2	1297.8	1307.0	1310.1	1307.0
22.5°	1249.9	1252.4	1256.7	1265.3	1277.6	1291.7	1304.0	1315.6	1327.3	1332.8	1328.5
25°	1266.5	1269.0	1274.5	1285.5	1299.0	1313.8	1327.9	1341.4	1351.8	1357.4	1354.3
27.5°	1297.2	1300.3	1307.0	1318.1	1332.8	1348.8	1364.1	1375.2	1383.7	1385.6	1381.9
30°	1343.2	1350.0	1358.0	1370.2	1387.4	1400.9	1416.3	1426.1	1436.5	1436.5	1433.5
32.5°	1415.0	1421.8	1430.4	1442.1	1455.6	1470.3	1483.8	1492.4	1503.4	1504.0	1496.7
35°	1522.5	1525.5	1532.9	1540.3	1552.5	1565.4	1577.1	1582.6	1591.8	1592.4	1585.7
37.5°	1664.3	1665.0	1669.9	1672.3	1683.4	1697.5	1708.5	1712.2	1720.8	1719.6	1712.8
40°	1829.4	1832.5	1834.4	1838.0	1849.7	1863.2	1874.9	1876.7	1885.9	1884.1	1875.5
42.5°	2020.3	2021.6	2032.0	2037.5	2048.6	2055.3	2070.0	2071.9	2083.0	2078.0	2068.2
45°	2234.6	2245.7	2255.5	2266.6	2278.2	2286.2	2297.9	2295.4	2302.8	2295.4	2289.9
47.5°	2459.9	2467.9	2490.0	2507.2	2526.2	2532.9	2549.6	2542.1	2549.6	2539.1	2537.2
50°	2708.0	2722.1	2741.1	2760.7	2781.0	2792.0	2813.5	2804.3	2814.1	2804.3	2798.8
52.5°	2952.2	2955.9	2997.7	3026.6	3054.8	3067.7	3080.6	3076.3	3076.9	3076.3	3070.8
55°	3184.3	3192.9	3234.7	3274.0	3323.1	3359.3	3381.4	3378.9	3373.4	3367.9	3358.7
57.5°	3445.8	3454.4	3502.4	3550.9	3606.7	3658.3	3703.1	3749.1	3766.9	3771.8	3751.6
60°	3799.4	3798.8	3862.7	3921.6	4001.5	4078.2	4176.4	4276.4	4391.2	4444.7	4374.0
62.5°	4159.2	4173.9	4266.0	4370.4	4534.9	4695.1	4876.3	5054.3	5236.0	5384.0	5226.8
65°	4116.3	4172.7	4309.6	4546.0	4849.8	5210.8	5601.3	6014.4	6387.7	6644.3	6356.4
67.5°	3567.4	3647.8	3787.2	4074.5	4454.5	4975.1	5630.7	6447.9	7397.6	7856.8	7287.7
70°	2585.8	2676.7	2822.7	3103.3	3479.7	3974.5	4686.5	5667.6	6924.9	7387.8	6761.0
72.5°	1286.8	1335.9	1426.1	1604.7	1889.6	2291.1	2936.9	3879.8	4992.3	5417.1	4844.3
75°	437.1	459.8	475.2	533.5	623.7	781.5	1102.5	1696.3	2587.7	3102.1	2550.8
77.5°	252.4	253.0	263.4	273.8	289.2	306.4	349.3	458.6	793.2	1126.5	820.8
80°	163.3	162.6	171.2	179.2	189.7	198.2	200.7	212.4	245.0	290.4	259.7
82.5°	84.7	95.1	114.2	124.6	144.2	147.9	143.0	138.7	146.7	152.2	155.9
85°	46.6	40.5	60.8	78.6	87.2	88.4	88.4	83.5	86.5	84.7	92.1
87.5°	21.5	19.6	23.9	38.7	41.1	35.0	36.8	32.5	23.3	22.7	25.8
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°	1330.3	1330.3	1330.3	1330.3	1330.3	1330.3	1330.3	1330.3
2.5°	1324.2	1324.8	1324.8	1326.7	1327.3	1328.5	1329.7	1330.3
5°	1313.8	1315.6	1314.4	1316.2	1316.2	1317.5	1317.5	1318.1
7.5°	1298.4	1300.3	1300.3	1300.3	1299.7	1301.5	1301.5	1301.5
10°	1282.5	1283.7	1283.1	1281.9	1280.6	1282.5	1281.9	1281.2
12.5°	1277.6	1274.5	1272.0	1270.8	1268.4	1269.0	1267.1	1267.1
15°	1280.6	1275.1	1270.8	1269.0	1266.5	1265.3	1264.1	1264.7
17.5°	1288.6	1281.9	1276.3	1273.3	1270.2	1268.4	1265.9	1266.5
20°	1302.7	1294.7	1286.8	1280.6	1275.1	1272.0	1270.2	1269.6
22.5°	1323.6	1311.9	1300.3	1291.1	1283.7	1279.4	1277.6	1276.3
25°	1347.5	1334.6	1321.1	1310.7	1303.3	1297.8	1294.1	1294.1
27.5°	1377.6	1367.2	1354.9	1342.6	1335.9	1330.3	1327.9	1326.7
30°	1427.9	1418.1	1408.3	1396.6	1388.0	1382.5	1378.2	1374.5
32.5°	1492.4	1484.4	1476.4	1467.8	1459.9	1452.5	1445.7	1442.7
35°	1583.2	1577.1	1571.6	1561.7	1558.7	1554.4	1550.7	1547.6
37.5°	1708.5	1706.1	1706.1	1695.6	1693.2	1691.3	1687.7	1688.3
40°	1873.0	1875.5	1872.4	1868.7	1866.9	1862.0	1862.0	1866.3
42.5°	2067.6	2069.4	2076.2	2070.0	2076.8	2070.7	2067.0	2070.0
45°	2293.6	2300.3	2313.8	2307.7	2312.0	2301.5	2288.6	2289.3
47.5°	2547.1	2553.3	2558.8	2554.5	2555.1	2537.8	2520.7	2516.4
50°	2810.5	2812.9	2816.0	2809.8	2811.1	2792.0	2772.4	2773.0
52.5°	3070.8	3082.5	3094.7	3078.2	3074.5	3053.0	3025.4	3014.3
55°	3368.5	3385.0	3370.9	3342.1	3313.2	3284.4	3248.2	3242.0
57.5°	3735.6	3707.4	3663.2	3608.6	3568.7	3528.2	3491.3	3476.0
60°	4246.4	4140.2	4060.4	3979.4	3928.3	3878.6	3830.1	3822.8
62.5°	4968.4	4784.8	4625.8	4458.2	4321.3	4214.5	4129.1	4105.2
65°	5873.3	5439.2	5062.9	4711.7	4406.7	4176.4	4031.6	3967.7
67.5°	6262.5	5405.5	4760.2	4261.7	3862.7	3584.0	3427.4	3349.4
70°	5503.1	4482.8	3781.0	3281.9	2918.5	2621.4	2479.5	2396.1
72.5°	3785.9	2851.6	2254.9	1840.5	1550.1	1301.5	1203.3	1195.9
75°	1699.9	1125.9	776.0	597.9	503.4	437.7	417.5	402.1
77.5°	475.8	351.8	313.7	293.5	273.8	251.1	242.5	244.4
80°	231.5	218.5	209.9	197.0	179.2	160.2	151.6	155.3
82.5°	153.4	151.6	157.1	147.9	122.1	103.7	87.2	79.8
85°	93.3	94.5	96.4	97.0	82.2	57.7	39.3	44.2
87.5°	36.8	42.4	46.0	47.9	44.8	27.6	22.1	22.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)