

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: P199904

Luminaire Tested: **GPC-AF-02-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199904  
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-7030  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 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: 12621.6 lumens  
Efficiency: N/A  
Efficacy: 111.7 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

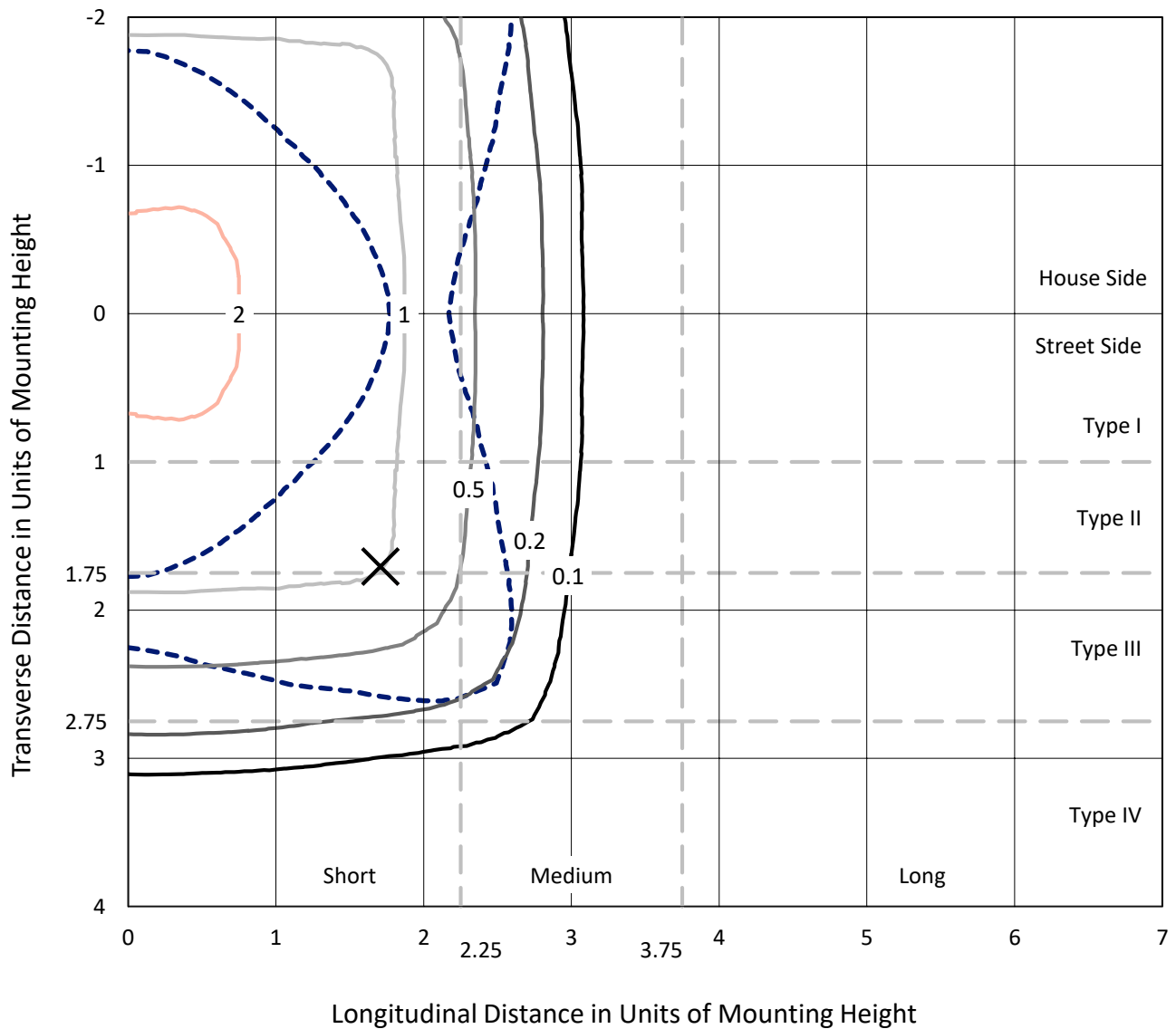
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

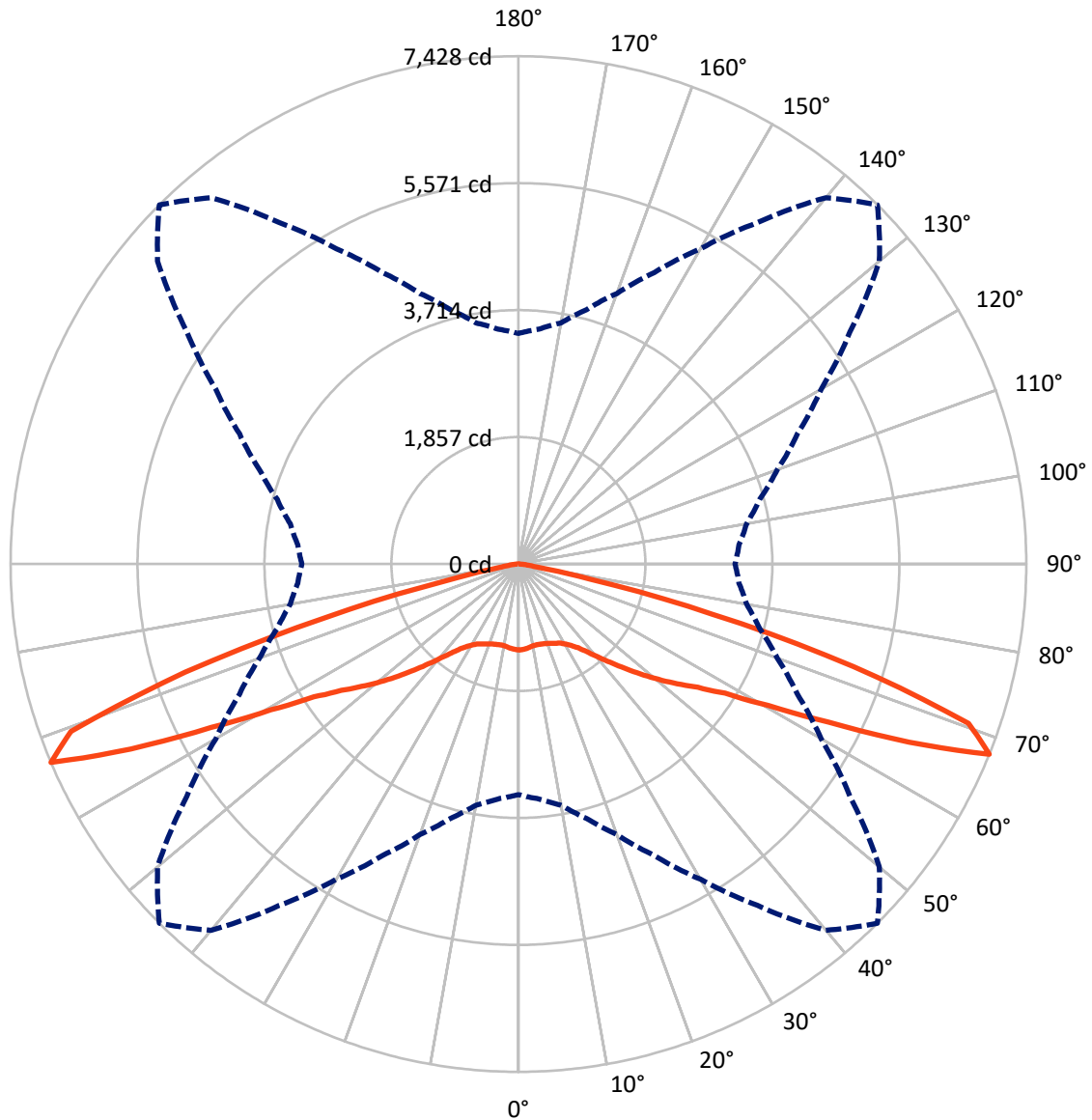
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 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
<b>House Side</b>	Lumens	6310.8	0.0	6310.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6310.8	0.0	6310.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12621.6	0.0	12621.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.7	0.9
10°-20°	341.6	2.7
20°-30°	580.7	4.6
30°-40°	949.3	7.5
40°-50°	1694.7	13.4
50°-60°	2857.3	22.6
60°-70°	4434.2	35.1
70°-80°	1558.0	12.3
80°-90°	88.0	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°	12621.6	100.0
0°-180°	12621.6	100.0



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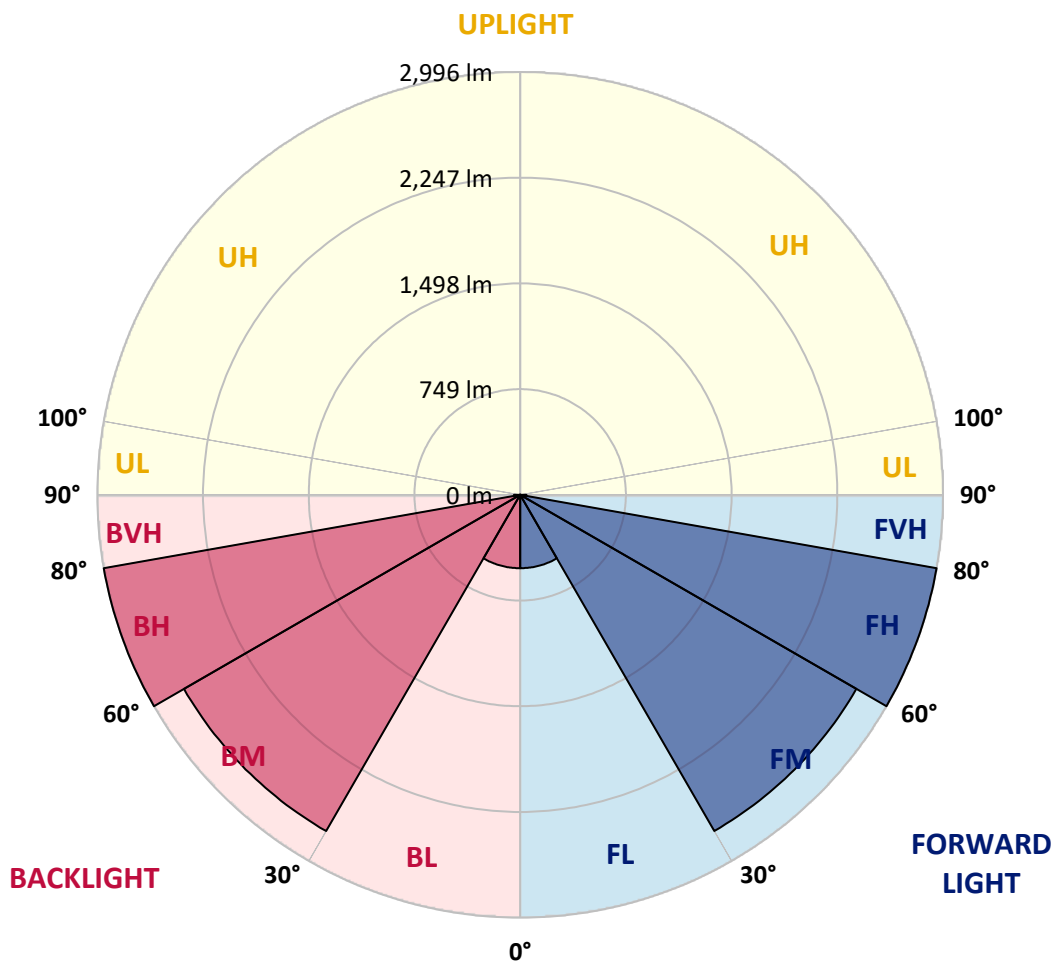
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	520.0	4.1			
FM	(30°-60°)	2750.7	21.8			
FH	(60°-80°)	2996.1	23.7			G2/5000
FVH	(80°-90°)	44.0	0.3			G1/100
BL	(0°-30°)	520.0	4.1	B2/1000		
BM	(30°-60°)	2750.7	21.8	B3/5000		
BH	(60°-80°)	2996.1	23.7	B4/5000		G2/5000
BVH	(80°-90°)	44.0	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°	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8
2.5°	1253.2	1254.3	1254.3	1254.3	1253.8	1253.8	1252.5	1253.8	1253.2	1251.4	1252.0
5°	1242.8	1243.9	1243.9	1243.3	1245.0	1244.5	1242.8	1243.9	1243.3	1242.2	1242.8
7.5°	1227.6	1229.3	1229.3	1228.7	1230.5	1229.9	1228.7	1229.3	1229.3	1227.6	1227.6
10°	1210.8	1211.9	1211.9	1211.3	1214.3	1214.3	1213.7	1215.4	1216.0	1214.3	1213.1
12.5°	1195.1	1196.8	1196.8	1199.1	1202.1	1203.3	1206.1	1208.4	1210.8	1210.1	1207.9
15°	1185.8	1187.0	1189.3	1192.2	1196.8	1200.9	1205.5	1210.8	1215.4	1216.6	1213.1
17.5°	1180.0	1181.7	1185.3	1189.3	1195.8	1202.6	1209.6	1216.6	1222.9	1225.4	1221.2
20°	1178.3	1179.5	1183.0	1189.9	1198.6	1209.1	1218.9	1227.0	1235.7	1238.7	1235.7
22.5°	1181.7	1184.1	1188.2	1196.3	1207.9	1221.2	1232.9	1243.9	1254.9	1260.1	1256.1
25°	1197.5	1199.7	1205.0	1215.4	1228.2	1242.2	1255.5	1268.3	1278.2	1283.4	1280.4
27.5°	1226.4	1229.3	1235.7	1246.2	1260.1	1275.2	1289.7	1300.1	1308.3	1310.0	1306.5
30°	1270.0	1276.3	1283.9	1295.5	1311.7	1324.5	1339.1	1348.4	1358.2	1358.2	1355.4
32.5°	1337.9	1344.3	1352.4	1363.4	1376.2	1390.1	1402.9	1411.1	1421.5	1422.0	1415.1
35°	1439.5	1442.3	1449.4	1456.3	1467.9	1480.1	1491.2	1496.3	1505.0	1505.6	1499.2
37.5°	1573.6	1574.1	1578.8	1581.1	1591.6	1604.9	1615.4	1618.7	1627.0	1625.8	1619.4
40°	1729.7	1732.7	1734.4	1737.8	1748.8	1761.6	1772.6	1774.4	1783.1	1781.4	1773.3
42.5°	1910.2	1911.4	1921.3	1926.5	1936.9	1943.2	1957.3	1958.9	1969.4	1964.8	1955.5
45°	2112.7	2123.2	2132.5	2143.0	2153.9	2161.5	2172.5	2170.2	2177.2	2170.2	2165.0
47.5°	2325.8	2333.3	2354.2	2370.5	2388.5	2394.9	2410.6	2403.6	2410.6	2400.7	2398.9
50°	2560.3	2573.6	2591.6	2610.2	2629.4	2639.8	2660.1	2651.4	2660.7	2651.4	2646.2
52.5°	2791.3	2794.8	2834.3	2861.5	2888.3	2900.4	2912.7	2908.6	2909.1	2908.6	2903.3
55°	3010.7	3018.9	3058.2	3095.5	3141.9	3176.1	3197.0	3194.7	3189.5	3184.3	3175.5
57.5°	3258.0	3266.1	3311.3	3357.2	3410.1	3458.8	3501.2	3544.7	3561.6	3566.2	3547.0
60°	3592.3	3591.7	3652.1	3707.8	3783.2	3855.9	3948.7	4043.2	4151.9	4202.3	4135.6
62.5°	3932.5	3946.3	4033.5	4132.0	4287.7	4439.2	4610.4	4778.7	4950.5	5090.4	4941.8
65°	3891.9	3945.3	4074.6	4298.2	4585.4	4926.7	5295.9	5686.5	6039.5	6282.1	6009.8
67.5°	3373.0	3449.0	3580.7	3852.4	4211.6	4703.8	5323.7	6096.3	6994.2	7428.4	6890.3
70°	2444.7	2530.7	2668.8	2934.0	3289.9	3757.8	4431.0	5358.5	6547.3	6985.0	6392.3
72.5°	1216.6	1263.0	1348.4	1517.3	1786.6	2166.2	2776.9	3668.4	4720.1	5121.7	4580.1
75°	413.2	434.8	449.3	504.4	589.7	738.9	1042.5	1603.7	2446.6	2932.9	2411.7
77.5°	238.5	239.2	249.0	258.8	273.3	289.6	330.3	433.5	749.9	1065.1	776.1
80°	154.4	153.8	161.9	169.5	179.4	187.5	189.8	200.8	231.6	274.6	245.5
82.5°	80.1	89.9	107.9	117.8	136.3	139.9	135.3	131.2	138.8	143.9	147.4
85°	44.1	38.4	57.5	74.3	82.4	83.6	83.6	78.8	81.8	80.1	87.1
87.5°	20.3	18.6	22.6	36.6	38.9	33.1	34.9	30.8	22.1	21.6	24.4
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°	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8
2.5°	1252.0	1252.5	1252.5	1254.3	1254.9	1256.1	1257.2	1257.8
5°	1242.2	1243.9	1242.8	1244.5	1244.5	1245.5	1245.5	1246.2
7.5°	1227.6	1229.3	1229.3	1229.3	1228.7	1230.5	1230.5	1230.5
10°	1212.6	1213.7	1213.1	1211.9	1210.8	1212.6	1211.9	1211.3
12.5°	1207.9	1205.0	1202.6	1201.6	1199.1	1199.7	1198.0	1198.0
15°	1210.8	1205.5	1201.6	1199.7	1197.5	1196.3	1195.1	1195.8
17.5°	1218.4	1211.9	1206.8	1203.8	1200.9	1199.1	1196.8	1197.5
20°	1231.7	1224.1	1216.6	1210.8	1205.5	1202.6	1200.9	1200.3
22.5°	1251.4	1240.4	1229.3	1220.7	1213.7	1209.6	1207.9	1206.8
25°	1274.1	1261.8	1249.1	1239.2	1232.2	1227.0	1223.6	1223.6
27.5°	1302.5	1292.6	1281.1	1269.4	1263.0	1257.8	1255.5	1254.3
30°	1350.1	1340.8	1331.6	1320.5	1312.3	1307.2	1303.0	1299.6
32.5°	1411.1	1403.4	1395.9	1387.8	1380.3	1373.3	1367.0	1364.0
35°	1497.0	1491.2	1485.9	1476.6	1473.7	1469.6	1466.1	1463.3
37.5°	1615.4	1613.0	1613.0	1603.2	1600.8	1599.1	1595.6	1596.2
40°	1770.9	1773.3	1770.3	1766.8	1765.1	1760.5	1760.5	1764.5
42.5°	1954.8	1956.7	1963.1	1957.3	1963.6	1957.8	1954.3	1957.3
45°	2168.5	2175.0	2187.7	2181.8	2186.0	2176.0	2163.9	2164.4
47.5°	2408.2	2414.0	2419.2	2415.1	2415.7	2399.6	2383.3	2379.2
50°	2657.1	2659.6	2662.4	2656.6	2657.8	2639.8	2621.2	2621.7
52.5°	2903.3	2914.4	2926.0	2910.3	2906.9	2886.5	2860.4	2849.9
55°	3184.8	3200.5	3187.2	3159.9	3132.6	3105.3	3071.1	3065.3
57.5°	3532.0	3505.2	3463.4	3411.8	3374.0	3335.8	3300.9	3286.4
60°	4014.8	3914.4	3839.0	3762.4	3714.2	3667.2	3621.3	3614.4
62.5°	4697.5	4523.9	4373.5	4215.1	4085.6	3984.6	3904.0	3881.3
65°	5553.0	5142.7	4786.8	4454.8	4166.4	3948.7	3811.7	3751.3
67.5°	5921.0	5110.7	4500.7	4029.4	3652.1	3388.5	3240.5	3166.9
70°	5203.0	4238.2	3574.9	3103.0	2759.4	2478.4	2344.3	2265.4
72.5°	3579.6	2696.1	2131.9	1740.2	1465.6	1230.5	1137.6	1130.8
75°	1607.2	1064.5	733.6	565.3	476.0	413.9	394.7	380.2
77.5°	449.8	332.5	296.6	277.4	258.8	237.4	229.2	231.0
80°	218.8	206.6	198.6	186.3	169.5	151.6	143.3	146.9
82.5°	145.1	143.3	148.6	139.9	115.5	98.2	82.4	75.5
85°	88.2	89.4	91.1	91.7	77.8	54.5	37.1	41.7
87.5°	34.9	40.1	43.4	45.3	42.4	26.1	20.9	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)