

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: P199909

Luminaire Tested: **GPC-AF-01-LED-E1-5NQ-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-01-LED-E1-5NQ-7030-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5124.3 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 44  
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

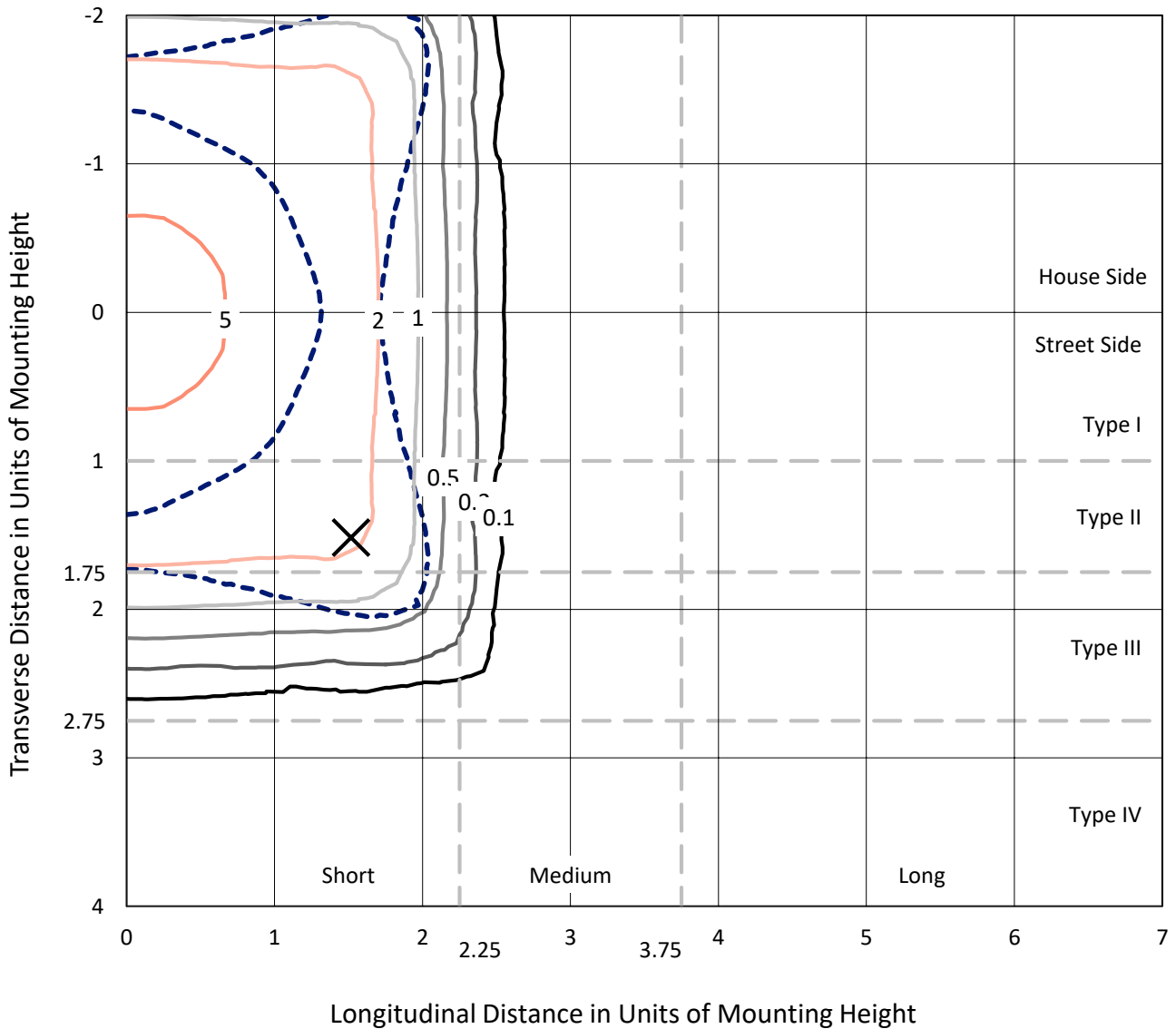


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### Iso-Footcandle Lines of Horizontal Illumination

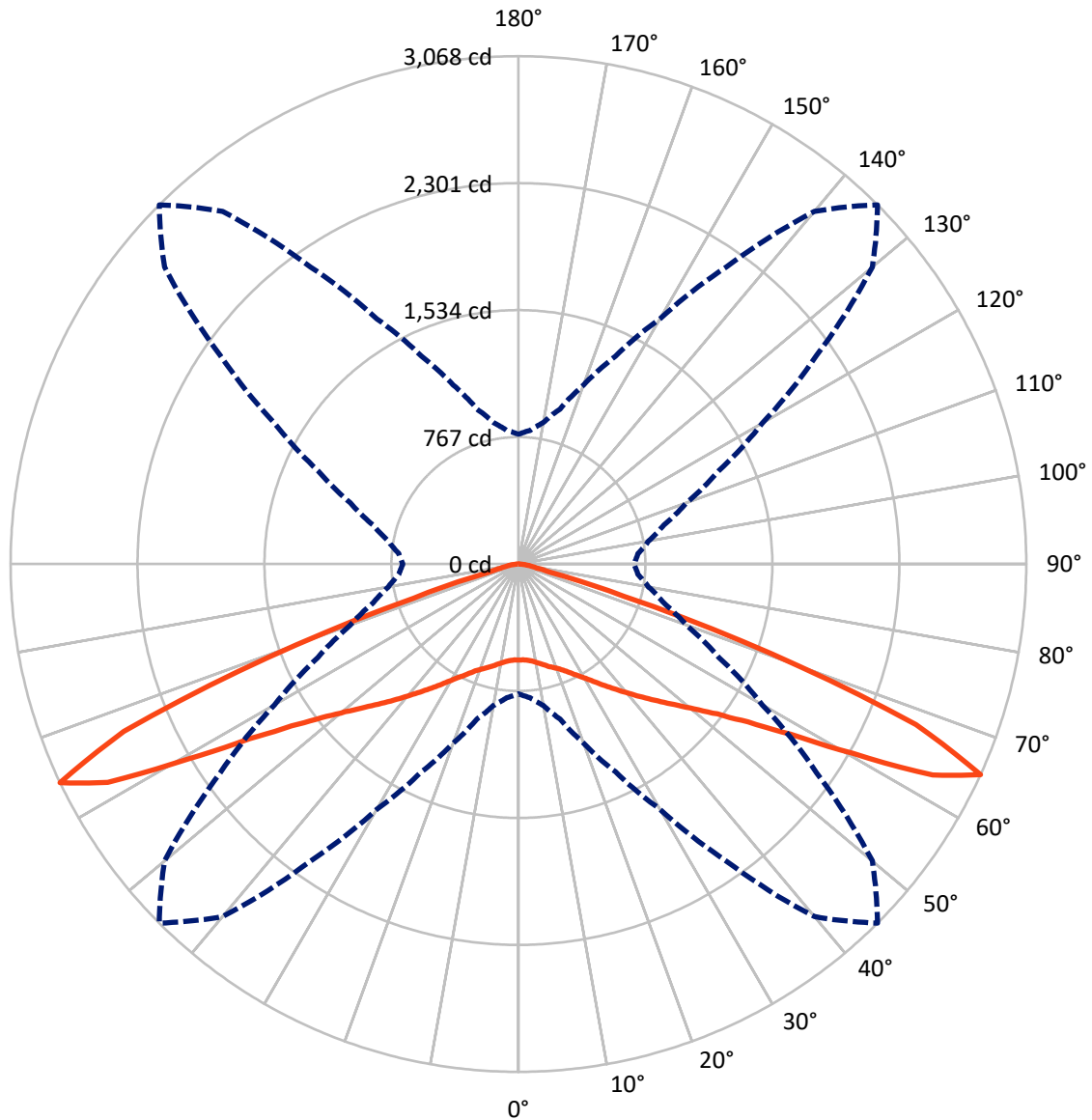
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2562.1	0.0	2562.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2562.1	0.0	2562.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5124.3	0.0	5124.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.5	1.1
10°-20°	181.2	3.5
20°-30°	338.9	6.6
30°-40°	573.2	11.2
40°-50°	937.2	18.3
50°-60°	1490.3	29.1
60°-70°	1347.1	26.3
70°-80°	170.5	3.3
80°-90°	29.3	0.6
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°	5124.3	100.0
0°-180°	5124.3	100.0



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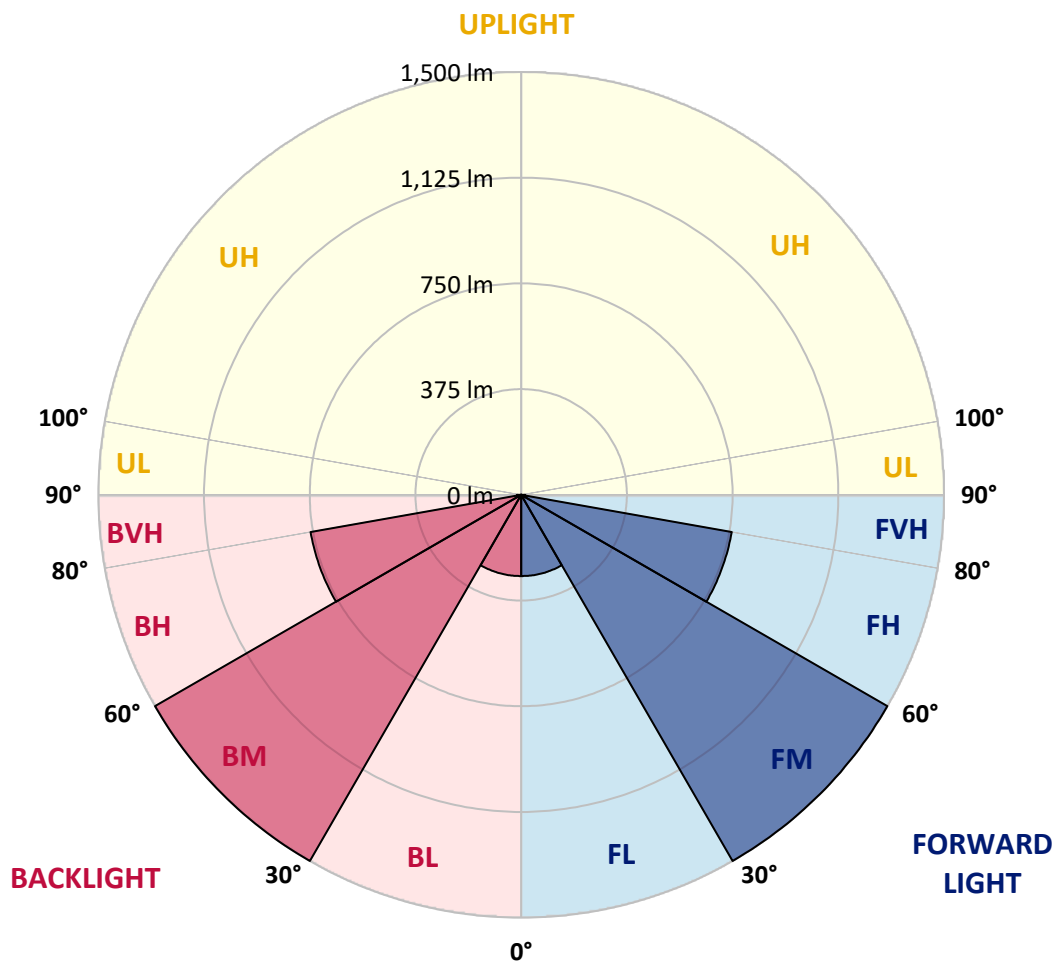
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	288.3	5.6			
FM (30°-60°)	1500.3	29.3			
FH (60°-80°)	758.8	14.8			G1/1800
FVH (80°-90°)	14.7	0.3			G1/100
BL (0°-30°)	288.3	5.6	B1/500		
BM (30°-60°)	1500.3	29.3	B2/2500		
BH (60°-80°)	758.8	14.8	B2/1000		G1/1800
BVH (80°-90°)	14.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
2.5°	580.2	580.8	581.3	580.8	581.3	580.5	580.0	580.8	580.0	579.3	579.8
5°	585.3	585.5	585.5	584.9	585.5	585.1	584.3	585.3	584.6	583.9	584.3
7.5°	593.8	594.7	594.0	593.3	593.8	593.3	592.7	593.1	592.7	592.0	592.3
10°	605.0	605.8	605.3	605.0	605.6	605.3	604.8	604.5	604.8	604.1	604.1
12.5°	618.7	618.4	618.2	618.4	619.2	619.2	619.0	619.2	619.6	619.9	619.4
15°	632.2	632.6	632.6	632.6	634.0	635.3	636.0	636.4	637.4	637.6	636.7
17.5°	648.9	648.9	648.7	648.9	650.4	652.3	653.1	653.9	654.9	655.7	654.5
20°	667.7	668.1	668.1	668.5	670.6	672.7	672.7	673.1	672.7	673.1	672.5
22.5°	690.4	691.9	691.9	692.1	694.1	696.6	696.0	696.6	695.4	696.4	695.4
25°	720.2	722.3	721.8	721.8	723.3	725.1	725.3	726.7	726.5	727.6	726.9
27.5°	753.8	757.1	758.1	757.9	758.8	760.6	761.0	762.6	761.7	762.6	762.2
30°	794.1	795.5	797.5	798.2	799.4	801.1	801.1	801.3	800.1	801.5	802.3
32.5°	835.9	838.6	840.4	844.8	846.9	848.1	847.9	848.4	847.2	849.1	850.5
35°	891.1	892.9	896.2	899.5	902.4	902.2	901.4	901.6	901.6	903.3	904.7
37.5°	957.5	957.9	962.1	967.0	968.4	967.0	962.6	961.6	959.6	961.6	964.0
40°	1027.9	1029.6	1037.8	1040.8	1041.6	1038.9	1032.7	1029.1	1024.3	1026.9	1030.4
42.5°	1101.6	1104.9	1112.4	1117.8	1120.2	1118.6	1110.0	1104.4	1098.2	1099.5	1103.0
45°	1183.2	1187.2	1197.8	1203.1	1207.7	1205.0	1196.6	1188.2	1178.4	1179.0	1184.4
47.5°	1274.3	1278.5	1292.1	1301.0	1303.4	1302.9	1293.5	1282.0	1268.6	1268.1	1272.7
50°	1376.5	1380.7	1397.7	1411.4	1418.3	1417.6	1406.6	1390.3	1373.9	1374.2	1380.0
52.5°	1476.4	1481.4	1499.2	1522.7	1536.4	1546.2	1539.6	1524.1	1504.3	1504.7	1510.0
55°	1570.0	1578.4	1598.8	1630.7	1656.2	1683.8	1691.7	1691.3	1679.2	1682.6	1687.8
57.5°	1615.4	1627.9	1659.3	1709.7	1761.5	1817.6	1865.2	1900.7	1915.9	1938.6	1933.4
60°	1529.4	1549.4	1595.7	1669.8	1772.3	1889.4	2015.0	2137.5	2242.2	2321.2	2275.8
62.5°	1252.2	1278.3	1334.4	1429.3	1584.4	1771.8	2012.1	2302.0	2617.8	2808.4	2672.3
65°	783.6	810.4	867.5	969.3	1150.7	1383.8	1709.7	2190.1	2780.3	3067.6	2790.6
67.5°	305.5	320.1	351.0	416.2	552.5	759.8	1086.9	1632.2	2337.9	2589.8	2294.6
70°	153.1	154.6	160.3	172.3	201.6	261.7	398.4	756.7	1340.8	1619.4	1292.5
72.5°	110.7	110.9	113.7	119.0	128.4	141.8	167.7	231.6	436.1	666.5	408.7
75°	84.6	85.7	87.4	90.2	95.3	102.0	111.3	133.4	165.3	191.7	161.2
77.5°	65.2	67.2	68.4	71.0	74.2	78.6	81.4	89.7	104.4	110.0	108.2
80°	49.7	51.4	54.0	56.2	58.4	60.5	59.5	63.4	71.0	75.6	73.2
82.5°	31.6	33.7	41.3	43.1	44.1	45.6	43.9	44.1	47.5	50.4	47.5
85°	20.4	21.7	26.1	28.5	28.9	29.7	29.1	27.4	27.4	24.9	28.1
87.5°	9.4	9.7	11.8	13.8	14.4	13.0	12.7	12.2	9.9	9.4	10.1
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°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
2.5°	579.6	580.0	580.2	581.0	581.3	581.3	581.5	582.1
5°	584.1	584.9	585.1	586.0	586.2	586.0	586.5	586.7
7.5°	592.3	593.5	594.0	594.9	594.3	595.1	595.5	595.5
10°	604.3	605.6	605.8	606.7	606.2	606.7	606.7	606.2
12.5°	620.1	620.4	619.6	620.4	619.4	619.9	619.2	618.7
15°	637.6	637.0	635.3	635.3	633.8	634.0	633.8	633.6
17.5°	654.7	653.3	652.1	651.6	650.4	650.1	649.4	649.4
20°	673.4	672.7	672.0	671.0	669.8	668.5	668.3	668.8
22.5°	696.0	695.8	695.8	695.2	693.6	692.3	691.6	691.6
25°	726.2	724.1	724.1	723.9	723.1	722.3	720.9	721.6
27.5°	760.3	759.2	760.0	759.8	759.2	759.2	758.1	758.1
30°	802.3	801.9	803.3	802.1	799.7	799.4	798.4	797.3
32.5°	850.8	850.2	852.4	851.0	847.2	845.0	843.1	842.2
35°	904.7	905.0	907.6	906.7	902.4	901.0	897.6	897.1
37.5°	963.7	967.6	972.2	973.2	969.5	968.6	965.0	963.1
40°	1033.1	1038.2	1045.2	1046.8	1043.0	1042.3	1037.2	1034.5
42.5°	1107.1	1115.7	1124.4	1125.8	1122.0	1118.2	1113.4	1111.3
45°	1189.7	1200.0	1211.2	1214.1	1208.3	1203.8	1197.6	1197.6
47.5°	1282.2	1295.3	1308.0	1315.8	1310.6	1305.7	1298.3	1293.5
50°	1391.8	1409.5	1426.1	1434.1	1425.8	1416.6	1403.7	1399.4
52.5°	1529.0	1548.2	1562.5	1558.2	1545.3	1532.6	1518.3	1512.7
55°	1704.1	1710.7	1710.7	1694.3	1668.4	1647.1	1624.6	1617.2
57.5°	1923.3	1898.3	1859.9	1811.2	1750.0	1696.7	1660.7	1643.7
60°	2180.9	2060.7	1925.1	1792.0	1682.6	1592.4	1538.8	1514.4
62.5°	2352.4	2038.4	1766.8	1553.0	1395.6	1286.8	1212.9	1184.2
65°	2198.6	1700.1	1336.2	1080.5	908.8	798.2	725.1	698.1
67.5°	1610.4	1065.3	711.6	510.0	373.6	298.1	268.0	255.5
70°	722.9	375.1	229.9	179.5	154.8	142.0	136.6	134.6
72.5°	217.9	157.7	133.0	119.9	110.2	103.9	99.3	98.9
75°	131.5	109.5	97.2	89.5	83.2	78.2	75.8	75.2
77.5°	91.9	80.5	74.7	69.2	64.4	60.5	58.4	56.6
80°	64.6	59.0	56.4	53.3	50.1	46.6	43.4	41.9
82.5°	43.1	41.9	41.9	40.1	37.4	34.1	27.9	26.4
85°	27.9	27.7	28.1	27.4	25.4	21.9	18.0	17.1
87.5°	13.0	13.2	14.6	14.4	13.8	11.5	9.1	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)