

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: P199911

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199911
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: GWC-AF-01-LED-E1-5NQ-7030
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6342.5 lumens
Efficiency: N/A
Efficacy: 107.5 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): 59
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

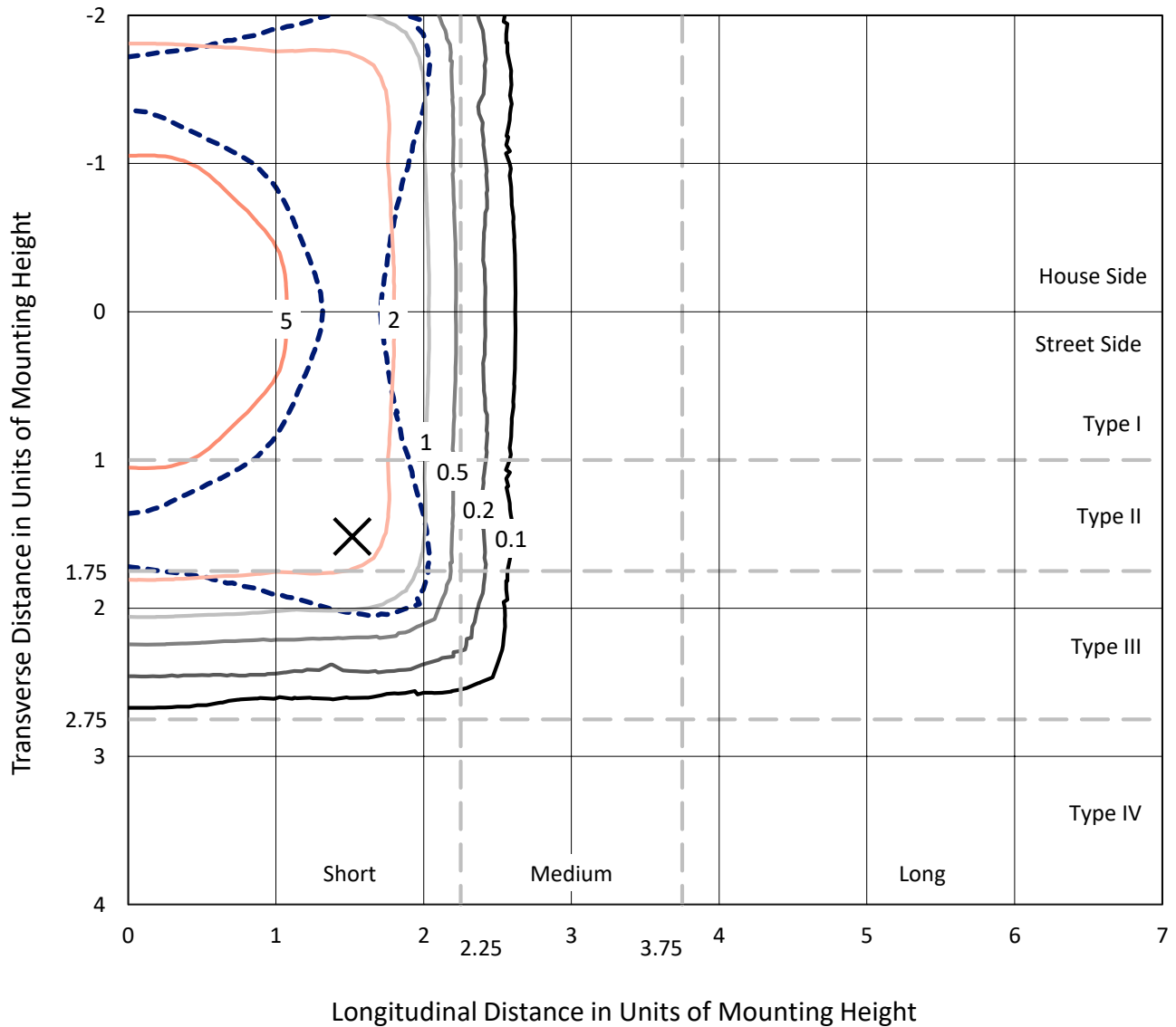


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Iso-Footcandle Lines of Horizontal Illumination

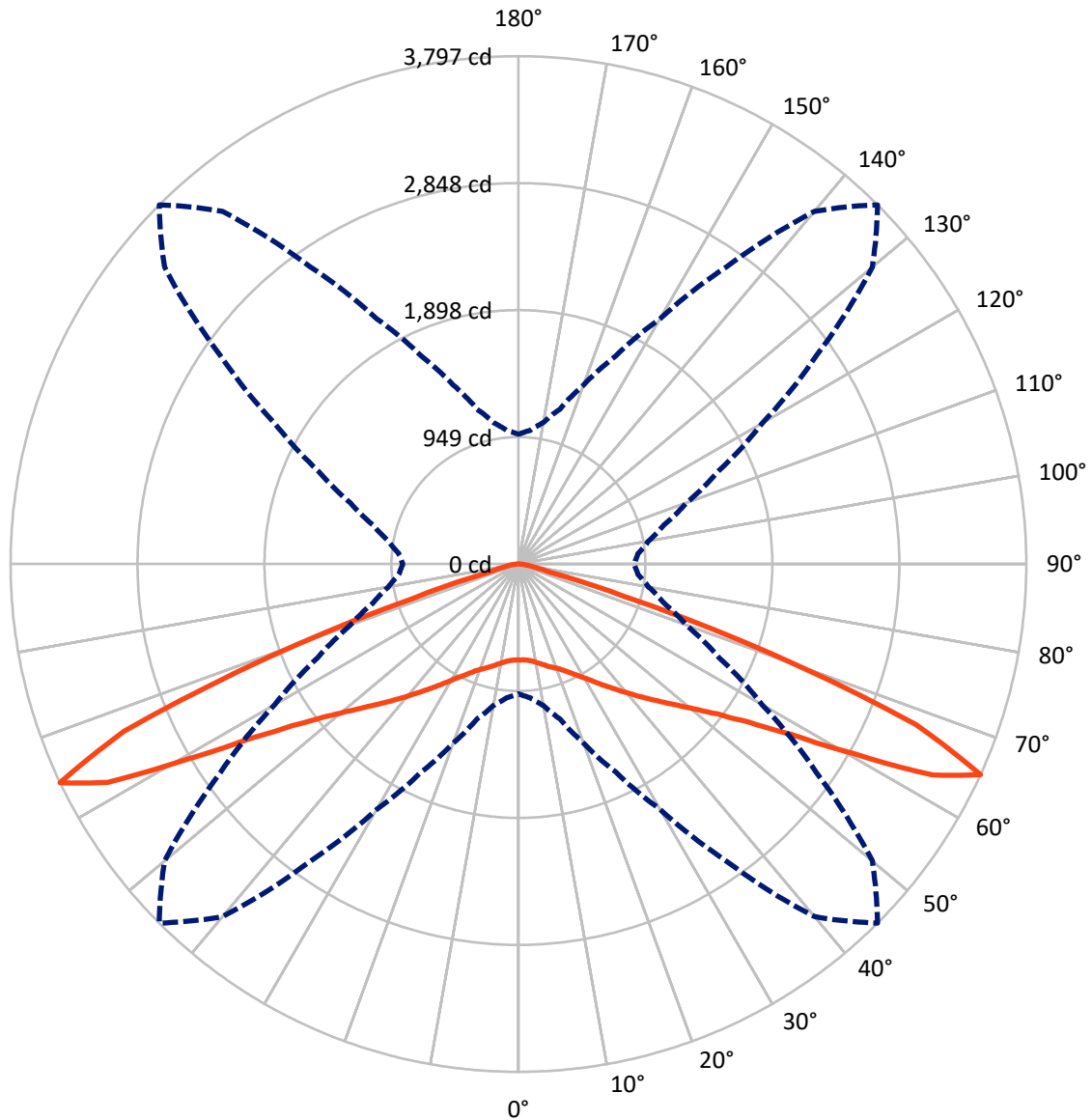
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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
House Side	Lumens	3171.3	0.0	3171.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3171.3	0.0	3171.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	6342.5	0.0	6342.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	1.1
10°-20°	224.3	3.5
20°-30°	419.5	6.6
30°-40°	709.4	11.2
40°-50°	1160.0	18.3
50°-60°	1844.6	29.1
60°-70°	1667.4	26.3
70°-80°	211.0	3.3
80°-90°	36.3	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°	6342.5	100.0
0°-180°	6342.5	100.0



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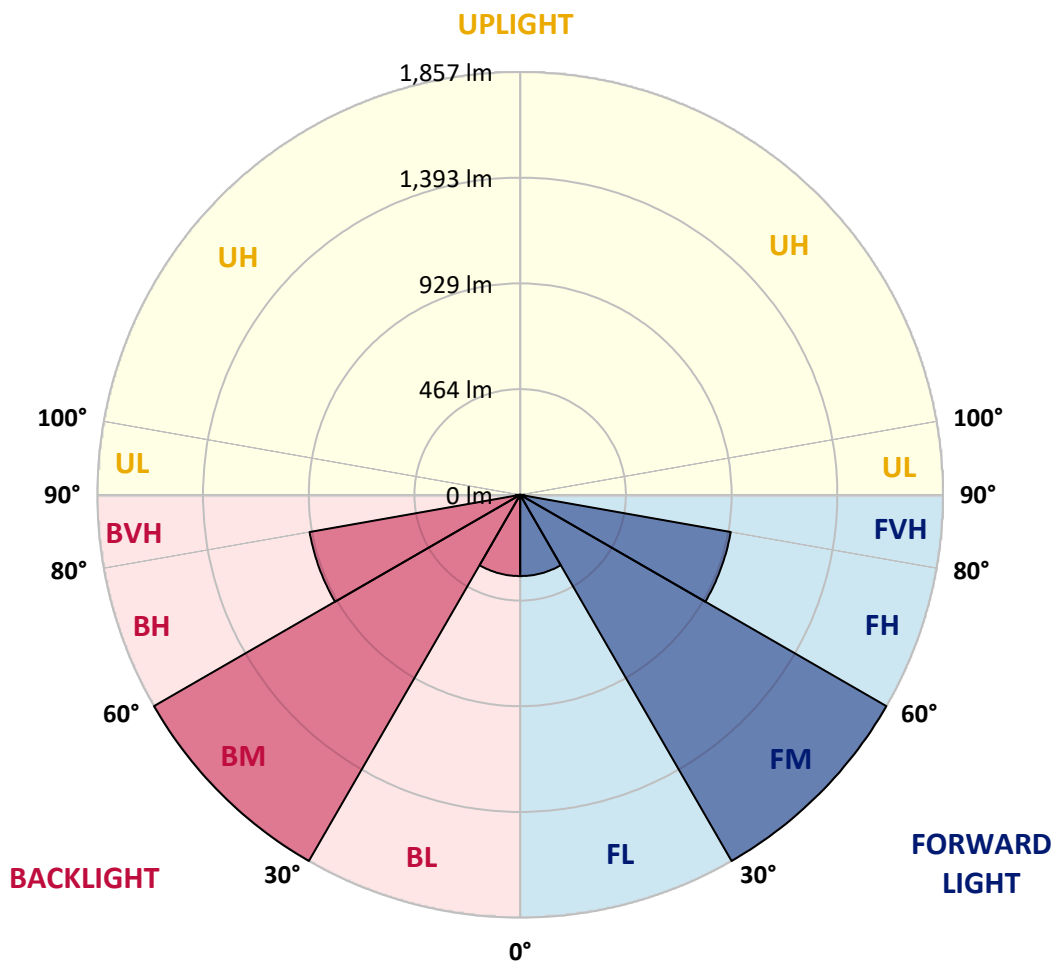
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.9	5.6			
FM	(30°-60°)	1857.0	29.3			
FH	(60°-80°)	939.2	14.8			G1/1800
FVH	(80°-90°)	18.1	0.3			G1/100
BL	(0°-30°)	356.9	5.6	B1/500		
BM	(30°-60°)	1857.0	29.3	B2/2500		
BH	(60°-80°)	939.2	14.8	B2/1000		G1/1800
BVH	(80°-90°)	18.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	717.7	717.7	717.7	717.7	717.7	717.7	717.7	717.7	717.7	717.7	717.7
2.5°	718.3	718.8	719.5	718.8	719.5	718.6	718.0	718.8	718.0	717.1	717.7
5°	724.5	724.8	724.8	723.9	724.8	724.2	723.3	724.5	723.7	722.8	723.3
7.5°	734.9	736.1	735.2	734.3	734.9	734.3	733.6	734.0	733.6	732.8	733.1
10°	748.9	749.7	749.2	748.9	749.4	749.2	748.5	748.2	748.5	747.7	747.7
12.5°	765.8	765.5	765.2	765.5	766.4	766.4	766.1	766.4	767.0	767.2	766.7
15°	782.4	783.1	783.1	783.1	784.8	786.2	787.2	787.8	789.0	789.3	788.1
17.5°	803.2	803.2	802.9	803.2	805.0	807.3	808.3	809.4	810.6	811.5	810.0
20°	826.3	827.0	827.0	827.5	830.0	832.7	832.7	833.2	832.7	833.2	832.3
22.5°	854.6	856.4	856.4	856.7	859.0	862.3	861.4	862.3	860.9	862.0	860.9
25°	891.4	894.1	893.5	893.5	895.3	897.3	897.7	899.4	899.2	900.7	899.7
27.5°	933.0	937.2	938.3	938.1	939.3	941.4	942.0	944.0	942.8	944.0	943.5
30°	982.9	984.8	987.0	987.9	989.5	991.5	991.5	991.8	990.3	992.1	993.0
32.5°	1034.5	1037.9	1040.2	1045.6	1048.3	1049.8	1049.4	1050.1	1048.6	1051.0	1052.7
35°	1103.0	1105.2	1109.2	1113.4	1116.8	1116.6	1115.6	1116.0	1116.0	1118.0	1119.9
37.5°	1185.3	1185.8	1190.8	1196.8	1198.6	1196.8	1191.5	1190.3	1187.5	1190.3	1193.2
40°	1272.3	1274.3	1284.5	1288.2	1289.1	1285.9	1278.3	1273.8	1267.7	1271.0	1275.2
42.5°	1363.4	1367.6	1376.7	1383.7	1386.6	1384.6	1373.8	1367.0	1359.3	1361.1	1365.2
45°	1464.4	1469.4	1482.5	1489.1	1494.7	1491.5	1481.0	1470.6	1458.5	1459.3	1465.9
47.5°	1577.2	1582.4	1599.3	1610.3	1613.2	1612.6	1601.0	1586.8	1570.2	1569.6	1575.2
50°	1703.8	1709.0	1730.0	1746.9	1755.6	1754.6	1740.9	1720.8	1700.6	1700.8	1708.0
52.5°	1827.4	1833.7	1855.7	1884.7	1901.6	1913.9	1905.5	1886.5	1861.9	1862.5	1869.0
55°	1943.2	1953.7	1978.9	2018.4	2049.9	2084.0	2093.9	2093.3	2078.4	2082.6	2089.1
57.5°	1999.5	2014.8	2053.7	2116.2	2180.3	2249.7	2308.6	2352.6	2371.3	2399.6	2393.0
60°	1893.0	1917.7	1975.1	2066.8	2193.7	2338.5	2494.0	2645.7	2775.3	2873.0	2816.8
62.5°	1550.0	1582.1	1651.6	1769.2	1961.1	2193.1	2490.4	2849.3	3240.2	3476.0	3307.6
65°	969.9	1003.1	1073.8	1199.7	1424.3	1712.7	2116.2	2710.8	3441.2	3796.8	3454.0
67.5°	378.1	396.3	434.6	515.0	683.8	940.4	1345.3	2020.2	2893.8	3205.4	2840.0
70°	189.6	191.3	198.5	213.3	249.5	324.1	493.1	936.6	1659.5	2004.5	1599.9
72.5°	136.9	137.2	140.8	147.3	159.0	175.6	207.6	286.7	539.7	824.9	505.9
75°	104.9	106.1	108.1	111.7	117.9	126.2	137.7	165.2	204.7	237.3	199.6
77.5°	80.8	83.1	84.6	88.0	91.8	97.5	100.7	111.1	129.3	136.0	134.0
80°	61.5	63.6	66.8	69.5	72.2	74.9	73.6	78.4	88.0	93.5	90.5
82.5°	39.3	41.6	51.2	53.4	54.6	56.5	54.4	54.6	58.8	62.4	58.8
85°	25.2	26.8	32.3	35.4	35.6	36.8	35.9	33.9	33.9	30.9	34.8
87.5°	11.6	11.9	14.5	17.3	17.8	16.1	15.8	15.2	12.1	11.6	12.4
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°	717.7	717.7	717.7	717.7	717.7	717.7	717.7	717.7
2.5°	717.4	718.0	718.3	719.2	719.5	719.5	719.7	720.3
5°	723.0	723.9	724.2	725.4	725.7	725.4	726.0	726.2
7.5°	733.1	734.6	735.2	736.4	735.6	736.6	737.0	737.0
10°	748.0	749.4	749.7	750.9	750.3	750.9	750.9	750.3
12.5°	767.5	767.9	767.0	767.9	766.7	767.2	766.4	765.8
15°	789.3	788.3	786.2	786.2	784.5	784.8	784.5	784.2
17.5°	810.3	808.5	807.1	806.5	805.0	804.7	803.8	803.8
20°	833.5	832.7	831.7	830.5	829.1	827.5	827.3	827.8
22.5°	861.4	861.2	861.2	860.5	858.4	856.9	856.0	856.0
25°	898.8	896.2	896.2	895.9	895.0	894.1	892.3	893.2
27.5°	941.0	939.5	940.7	940.4	939.5	939.5	938.3	938.3
30°	993.0	992.4	994.3	992.7	989.8	989.5	988.2	986.8
32.5°	1053.0	1052.3	1055.1	1053.4	1048.6	1045.9	1043.5	1042.4
35°	1119.9	1120.1	1123.4	1122.2	1116.8	1115.1	1110.9	1110.4
37.5°	1192.9	1197.7	1203.3	1204.5	1200.1	1198.9	1194.4	1192.0
40°	1278.8	1285.0	1293.6	1295.7	1290.9	1290.1	1283.8	1280.5
42.5°	1370.2	1380.9	1391.6	1393.4	1388.6	1383.9	1378.0	1375.6
45°	1472.5	1485.3	1499.1	1502.8	1495.6	1490.0	1482.2	1482.2
47.5°	1587.1	1603.2	1618.9	1628.7	1622.2	1616.2	1606.9	1601.0
50°	1722.6	1744.6	1765.1	1775.1	1764.7	1753.5	1737.4	1732.1
52.5°	1892.5	1916.2	1934.0	1928.8	1912.7	1897.0	1879.4	1872.2
55°	2109.4	2117.3	2117.3	2097.1	2065.0	2038.6	2011.0	2001.7
57.5°	2380.5	2349.6	2302.1	2241.8	2166.1	2100.1	2055.5	2034.4
60°	2699.2	2550.7	2382.8	2218.1	2082.6	1970.9	1904.6	1874.4
62.5°	2911.6	2523.2	2186.9	1922.2	1727.3	1592.8	1501.2	1465.6
65°	2721.2	2104.3	1653.9	1337.4	1125.0	987.9	897.3	864.1
67.5°	1993.2	1318.5	880.7	631.2	462.5	369.0	331.8	316.3
70°	894.8	464.3	284.6	222.3	191.6	175.8	169.1	166.6
72.5°	269.8	195.1	164.6	148.5	136.3	128.6	123.0	122.4
75°	162.8	135.5	120.3	110.8	103.0	96.8	93.9	93.0
77.5°	113.7	99.5	92.5	85.5	79.6	74.9	72.2	70.2
80°	79.9	73.1	69.8	66.0	62.1	57.6	53.7	52.0
82.5°	53.4	52.0	52.0	49.6	46.3	42.2	34.4	32.7
85°	34.4	34.2	34.8	33.9	31.4	27.0	22.3	21.1
87.5°	16.1	16.4	18.1	17.8	17.3	14.2	11.3	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)