

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: P270190

Luminaire Tested: **GWC-AF-02-LED-E1-5MQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270190
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: GWC-AF-02-LED-E1-5MQ-7027-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7470.1 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

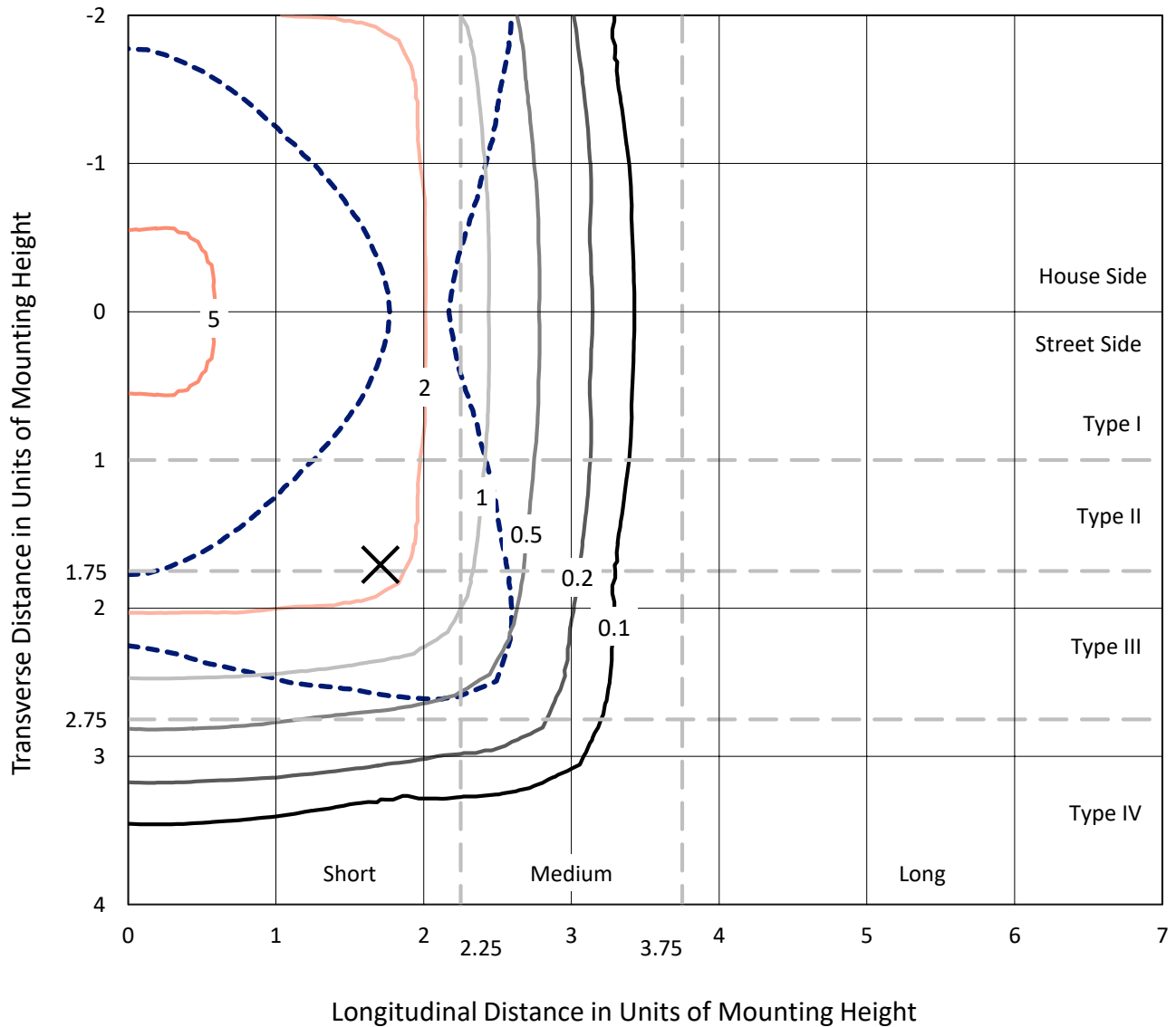
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

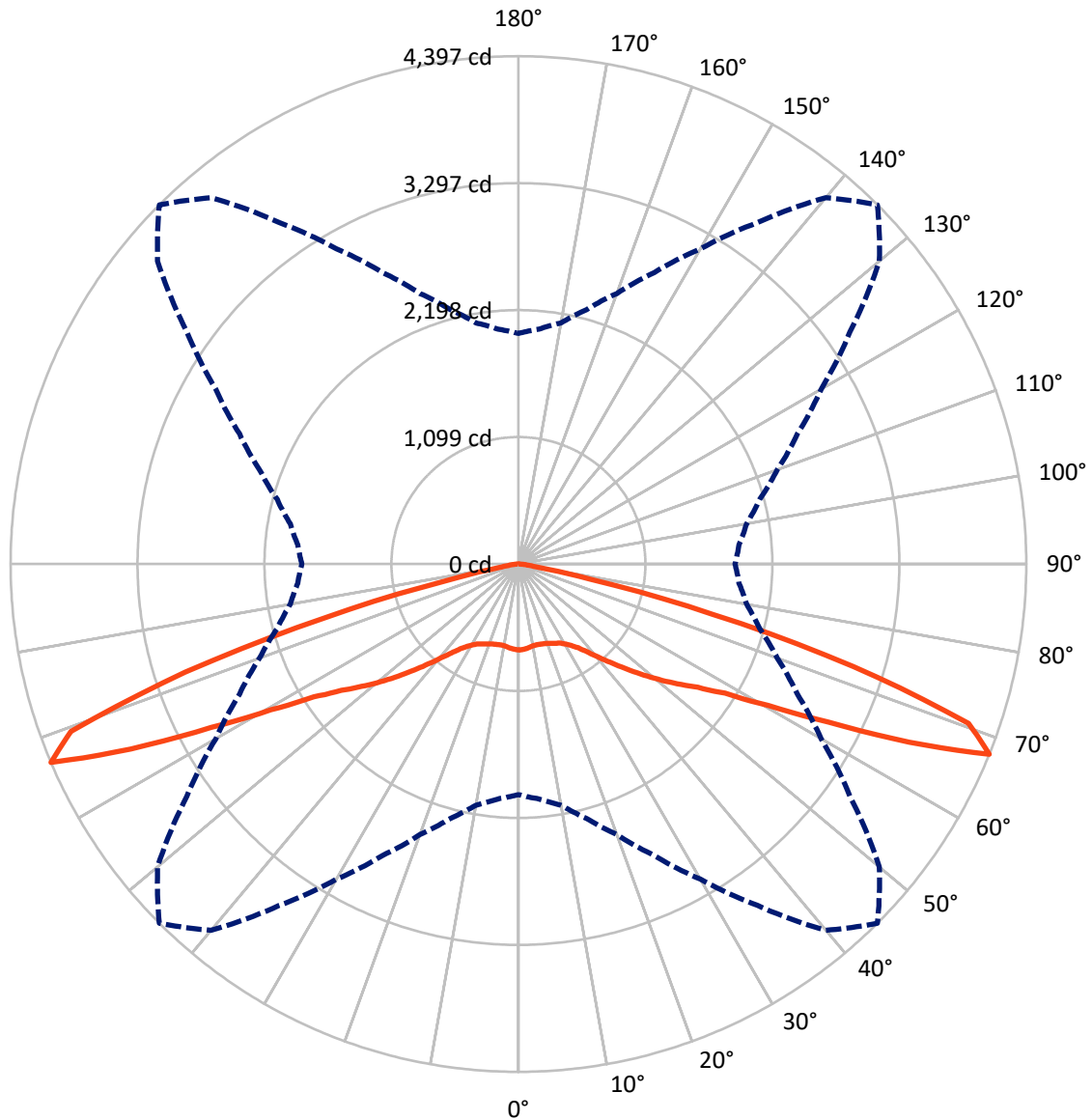
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 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	3735.1	0.0	3735.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3735.1	0.0	3735.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	7470.1	0.0	7470.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	0.9
10°-20°	202.2	2.7
20°-30°	343.7	4.6
30°-40°	561.9	7.5
40°-50°	1003.0	13.4
50°-60°	1691.1	22.6
60°-70°	2624.3	35.1
70°-80°	922.1	12.3
80°-90°	52.1	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°	7470.1	100.0
0°-180°	7470.1	100.0



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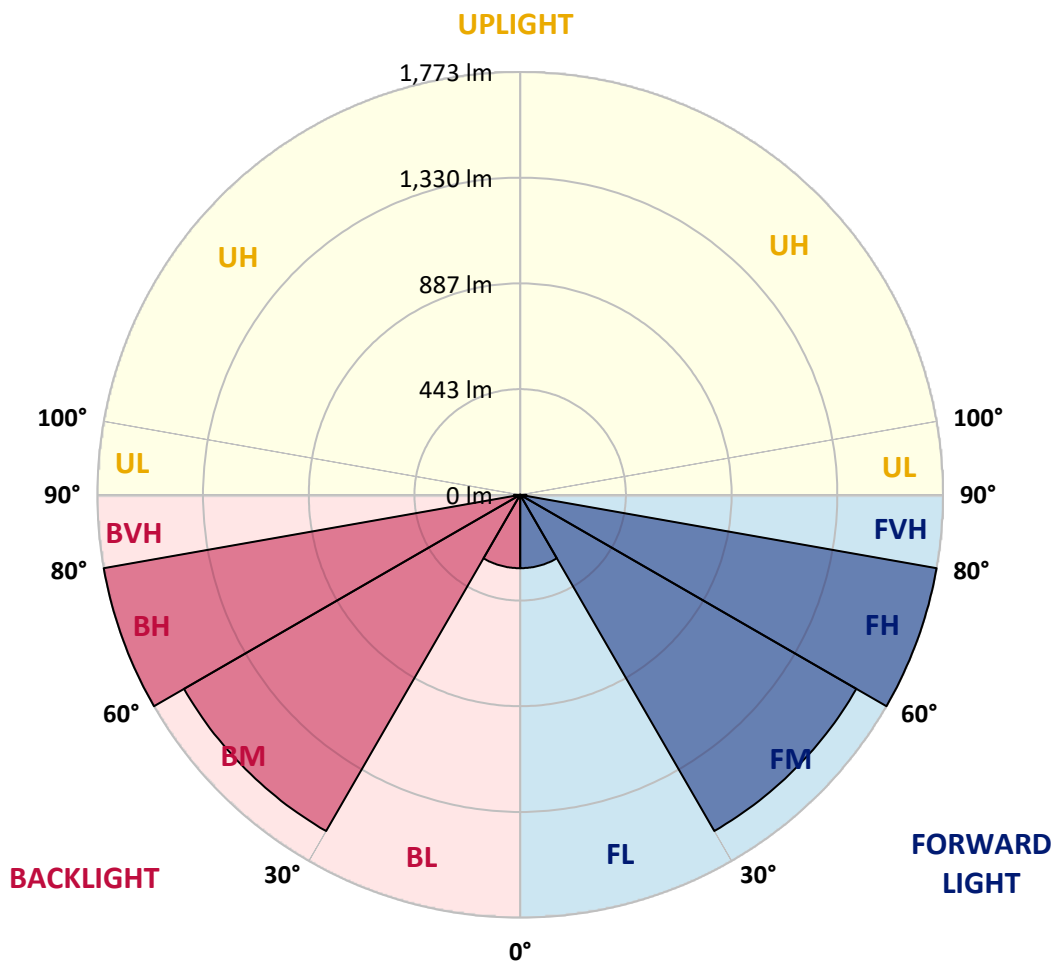
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	307.8	4.1			
FM	(30°-60°)	1628.0	21.8			
FH	(60°-80°)	1773.2	23.7			G1/1800
FVH	(80°-90°)	26.1	0.3			G1/100
BL	(0°-30°)	307.8	4.1	B1/500		
BM	(30°-60°)	1628.0	21.8	B2/2500		
BH	(60°-80°)	1773.2	23.7	B3/2500		G1/1800
BVH	(80°-90°)	26.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4
2.5°	741.7	742.4	742.4	742.4	742.0	742.0	741.3	742.0	741.7	740.7	741.0
5°	735.5	736.3	736.3	735.8	736.9	736.5	735.5	736.3	735.8	735.2	735.5
7.5°	726.5	727.5	727.5	727.3	728.3	727.9	727.3	727.5	727.5	726.5	726.5
10°	716.6	717.2	717.2	716.9	718.6	718.6	718.4	719.4	719.7	718.6	717.9
12.5°	707.3	708.4	708.4	709.8	711.5	712.1	713.9	715.2	716.6	716.3	715.0
15°	701.8	702.6	703.9	705.6	708.4	710.7	713.6	716.6	719.4	720.0	717.9
17.5°	698.4	699.4	701.4	703.9	707.7	711.7	715.9	720.0	723.9	725.2	722.7
20°	697.4	698.1	700.0	704.2	709.4	715.6	721.3	726.2	731.4	733.0	731.4
22.5°	699.4	700.8	703.3	708.0	715.0	722.7	729.7	736.3	742.7	745.9	743.3
25°	708.8	710.1	713.2	719.4	726.9	735.2	743.1	750.7	756.5	759.5	757.8
27.5°	725.9	727.5	731.4	737.6	745.9	754.8	763.3	769.5	774.2	775.3	773.4
30°	751.6	755.5	759.8	766.8	776.3	784.0	792.6	798.1	803.9	803.9	802.1
32.5°	791.9	795.5	800.4	806.9	814.6	822.8	830.4	835.2	841.4	841.6	837.5
35°	852.0	853.7	857.8	862.0	868.8	875.9	882.6	885.5	890.8	891.1	887.3
37.5°	931.4	931.6	934.3	935.8	942.0	949.9	956.1	958.1	963.0	962.3	958.4
40°	1023.7	1025.4	1026.5	1028.5	1035.0	1042.7	1049.1	1050.2	1055.2	1054.3	1049.5
42.5°	1130.5	1131.2	1137.1	1140.2	1146.3	1150.1	1158.4	1159.4	1165.6	1162.9	1157.3
45°	1250.4	1256.5	1262.1	1268.2	1274.9	1279.2	1285.8	1284.4	1288.6	1284.4	1281.3
47.5°	1376.6	1381.0	1393.4	1403.0	1413.7	1417.3	1426.7	1422.6	1426.7	1420.8	1419.9
50°	1515.4	1523.2	1533.9	1544.8	1556.1	1562.3	1574.4	1569.2	1574.6	1569.2	1566.1
52.5°	1652.1	1654.0	1677.5	1693.6	1709.4	1716.7	1723.8	1721.4	1721.7	1721.4	1718.3
55°	1781.9	1786.6	1810.1	1832.1	1859.5	1879.8	1892.1	1890.8	1887.7	1884.6	1879.4
57.5°	1928.2	1933.1	1959.8	1987.0	2018.2	2047.1	2072.2	2097.9	2108.0	2110.7	2099.2
60°	2126.1	2125.7	2161.5	2194.5	2239.1	2282.1	2337.0	2393.1	2457.3	2487.1	2447.6
62.5°	2327.4	2335.7	2387.2	2445.5	2537.6	2627.4	2728.6	2828.3	2929.9	3012.7	2924.8
65°	2303.3	2335.0	2411.6	2543.8	2713.9	2915.9	3134.4	3365.5	3574.4	3717.9	3556.8
67.5°	1996.3	2041.3	2119.2	2280.0	2492.6	2783.9	3150.9	3608.0	4139.5	4396.5	4077.9
70°	1446.9	1497.7	1579.5	1736.6	1947.0	2224.1	2622.5	3171.5	3875.0	4134.0	3783.2
72.5°	720.0	747.5	798.1	897.9	1057.3	1282.1	1643.4	2171.2	2793.5	3031.3	2710.7
75°	244.6	257.4	265.9	298.5	349.0	437.4	617.0	949.1	1448.0	1735.9	1427.3
77.5°	141.3	141.6	147.4	153.3	161.9	171.4	195.6	256.6	443.9	630.4	459.4
80°	91.4	91.1	95.8	100.3	106.2	111.0	112.4	118.8	137.1	162.6	145.3
82.5°	47.4	53.3	63.9	69.8	80.8	82.9	80.0	77.7	82.1	85.2	87.2
85°	26.1	22.6	34.0	43.9	48.8	49.4	49.4	46.7	48.5	47.4	51.6
87.5°	12.0	11.0	13.5	21.6	23.0	19.7	20.7	18.2	13.0	12.8	14.5
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°	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4
2.5°	741.0	741.3	741.3	742.4	742.7	743.3	744.1	744.4
5°	735.2	736.3	735.5	736.5	736.5	737.1	737.1	737.6
7.5°	726.5	727.5	727.5	727.5	727.3	728.3	728.3	728.3
10°	717.7	718.4	717.9	717.2	716.6	717.7	717.2	716.9
12.5°	715.0	713.2	711.7	711.1	709.8	710.1	709.0	709.0
15°	716.6	713.6	711.1	710.1	708.8	708.0	707.3	707.7
17.5°	721.1	717.2	714.2	712.4	710.7	709.8	708.4	708.8
20°	729.0	724.6	720.0	716.6	713.6	711.7	710.7	710.4
22.5°	740.7	734.2	727.5	722.4	718.4	715.9	715.0	714.2
25°	754.0	746.9	739.2	733.5	729.3	726.2	724.2	724.2
27.5°	770.8	765.0	758.2	751.3	747.5	744.4	743.1	742.4
30°	799.0	793.6	788.1	781.5	776.8	773.6	771.3	769.2
32.5°	835.2	830.7	826.3	821.4	816.9	812.7	809.1	807.2
35°	886.0	882.6	879.4	874.0	872.3	869.7	867.8	866.1
37.5°	956.1	954.7	954.7	948.8	947.4	946.5	944.4	944.7
40°	1048.1	1049.5	1047.8	1045.6	1044.6	1041.9	1041.9	1044.3
42.5°	1156.9	1158.0	1161.8	1158.4	1162.1	1158.8	1156.7	1158.4
45°	1283.4	1287.2	1294.7	1291.4	1293.6	1287.9	1280.7	1281.1
47.5°	1425.3	1428.8	1431.8	1429.5	1429.7	1420.1	1410.5	1408.2
50°	1572.7	1574.0	1575.7	1572.4	1573.0	1562.3	1551.4	1551.7
52.5°	1718.3	1724.8	1731.8	1722.4	1720.3	1708.3	1692.9	1686.7
55°	1885.0	1894.2	1886.4	1870.1	1854.0	1837.8	1817.6	1814.1
57.5°	2090.4	2074.5	2049.8	2019.2	1996.9	1974.3	1953.6	1945.0
60°	2376.1	2316.8	2272.2	2226.8	2198.2	2170.5	2143.3	2139.1
62.5°	2780.2	2677.5	2588.5	2494.8	2418.1	2358.3	2310.6	2297.1
65°	3286.4	3043.6	2833.1	2636.5	2465.8	2337.0	2256.0	2220.3
67.5°	3504.3	3024.8	2663.7	2384.8	2161.5	2005.5	1917.9	1874.3
70°	3079.4	2508.4	2115.8	1836.5	1633.1	1466.8	1387.5	1340.8
72.5°	2118.6	1595.7	1261.8	1029.8	867.5	728.3	673.3	669.1
75°	951.2	630.0	434.2	334.6	281.7	245.0	233.6	225.0
77.5°	266.3	196.9	175.6	164.2	153.3	140.6	135.7	136.7
80°	129.5	122.3	117.5	110.3	100.3	89.7	84.9	87.0
82.5°	85.9	84.9	87.9	82.9	68.5	58.1	48.8	44.6
85°	52.2	52.9	54.0	54.3	46.1	32.2	22.0	24.8
87.5°	20.7	23.7	25.8	26.8	25.2	15.5	12.3	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)