

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: P191619

Luminaire Tested: **GLEON-AF-01-LED-E1-5MQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191619
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: GLEON-AF-01-LED-E1-5MQ-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7182 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 67
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

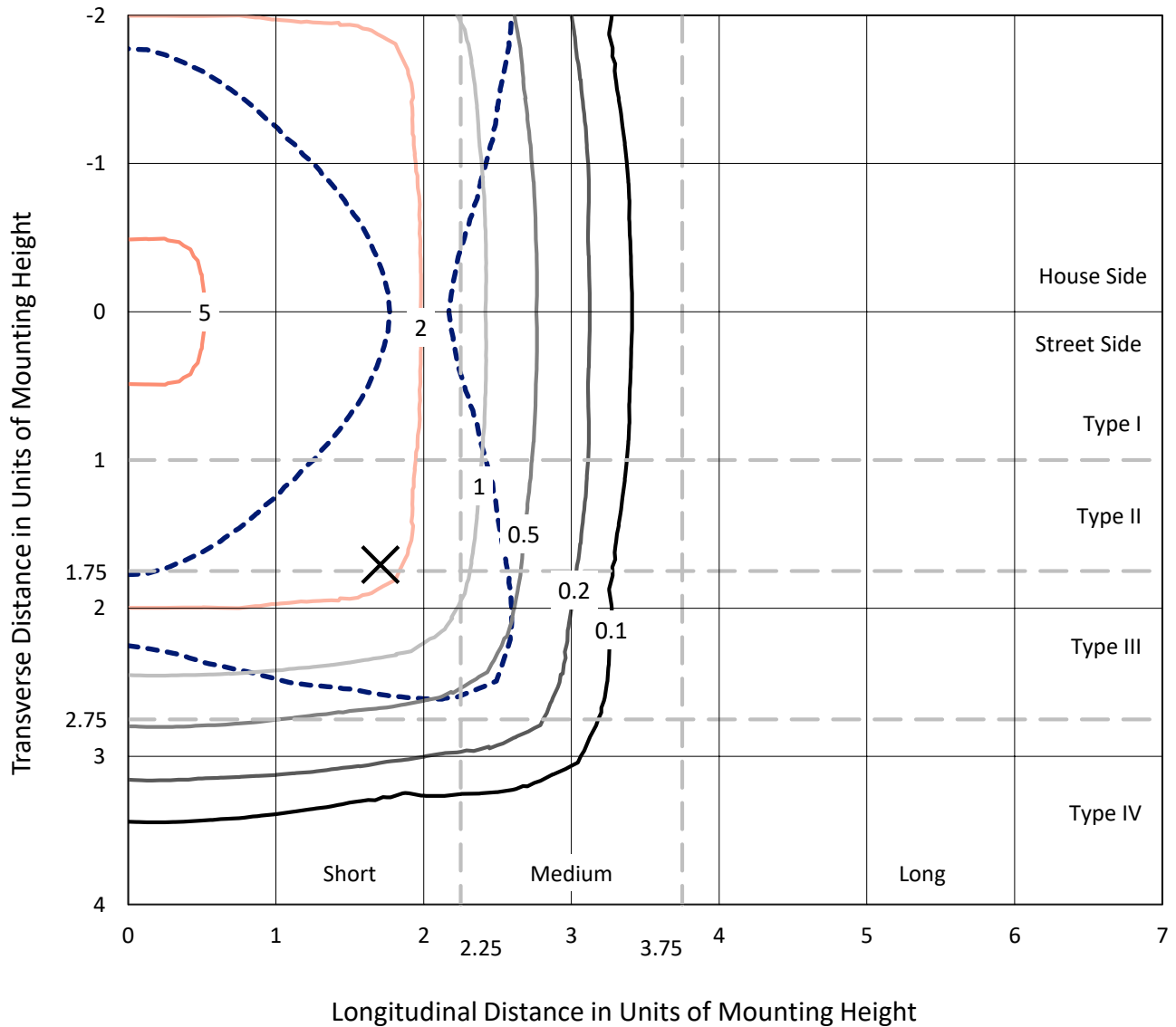


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Iso-Footcandle Lines of Horizontal Illumination

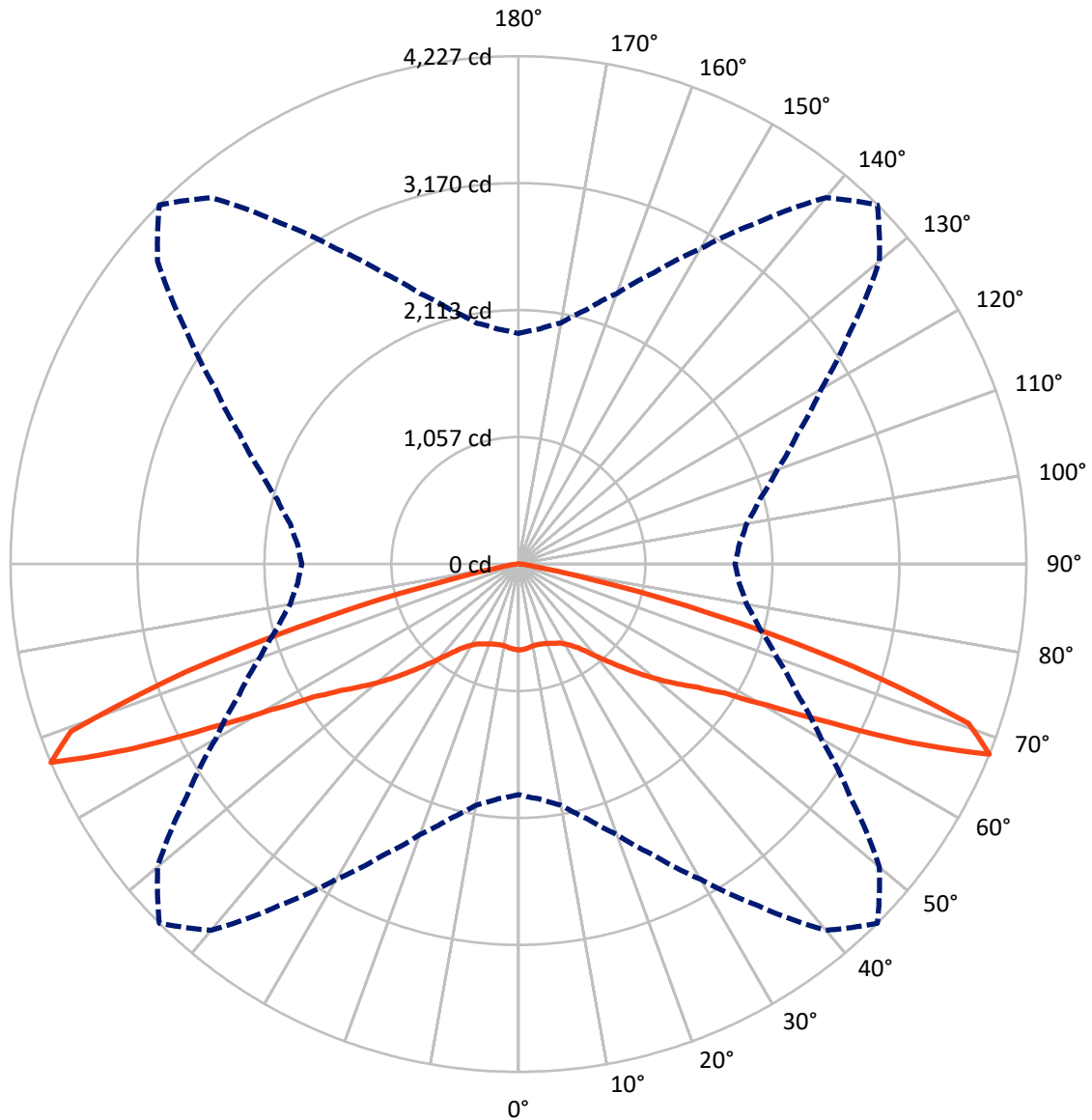
× Max cd
 - - - 1/2 Max cd



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 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3591.0	0.0	3591.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3591.0	0.0	3591.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7182.0	0.0	7182.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	0.9
10°-20°	194.4	2.7
20°-30°	330.5	4.6
30°-40°	540.2	7.5
40°-50°	964.3	13.4
50°-60°	1625.9	22.6
60°-70°	2523.1	35.1
70°-80°	886.5	12.3
80°-90°	50.1	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°	7182.0	100.0
0°-180°	7182.0	100.0



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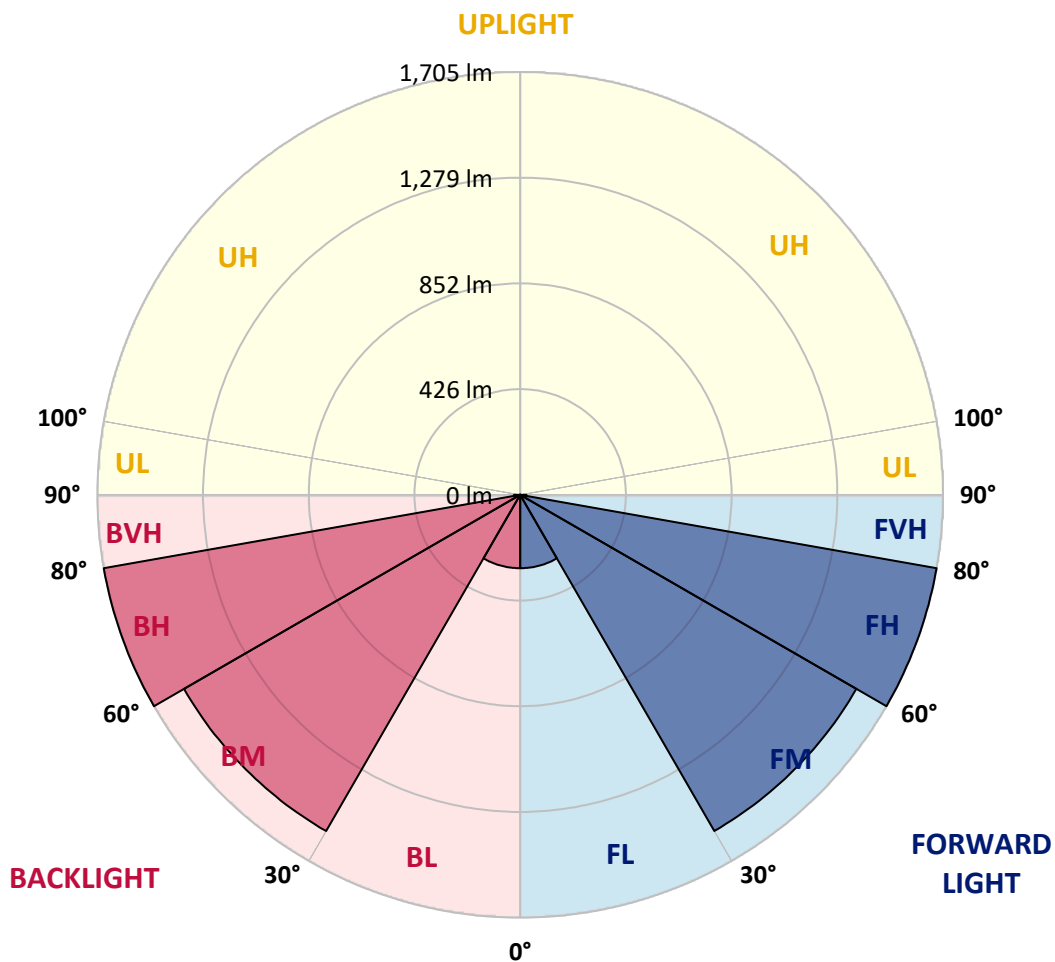
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	295.9	4.1			
FM	(30°-60°)	1565.2	21.8			
FH	(60°-80°)	1704.8	23.7			G1/1800
FVH	(80°-90°)	25.1	0.3			G1/100
BL	(0°-30°)	295.9	4.1	B1/500		
BM	(30°-60°)	1565.2	21.8	B2/2500		
BH	(60°-80°)	1704.8	23.7	B3/2500		G1/1800
BVH	(80°-90°)	25.1	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°	715.7	715.7	715.7	715.7	715.7	715.7	715.7	715.7	715.7	715.7	715.7
2.5°	713.1	713.7	713.7	713.7	713.4	713.4	712.7	713.4	713.1	712.1	712.4
5°	707.1	707.8	707.8	707.5	708.5	708.1	707.1	707.8	707.5	706.8	707.1
7.5°	698.5	699.5	699.5	699.2	700.2	699.9	699.2	699.5	699.5	698.5	698.5
10°	689.0	689.6	689.6	689.3	690.9	690.9	690.6	691.6	691.9	690.9	690.3
12.5°	680.0	681.0	681.0	682.4	684.0	684.7	686.3	687.6	689.0	688.6	687.3
15°	674.8	675.4	676.7	678.4	681.0	683.3	686.0	689.0	691.6	692.3	690.3
17.5°	671.5	672.4	674.4	676.7	680.4	684.3	688.3	692.3	695.9	697.2	694.9
20°	670.5	671.1	673.1	677.1	682.0	688.0	693.6	698.2	703.2	704.8	703.2
22.5°	672.4	673.8	676.1	680.7	687.3	694.9	701.5	707.8	714.1	717.0	714.7
25°	681.4	682.7	685.7	691.6	698.9	706.8	714.4	721.7	727.3	730.2	728.6
27.5°	697.9	699.5	703.2	709.1	717.0	725.6	733.9	739.8	744.5	745.4	743.5
30°	722.7	726.3	730.6	737.2	746.4	753.7	762.0	767.2	772.9	772.9	771.2
32.5°	761.3	764.9	769.6	775.8	783.1	791.0	798.3	802.9	808.9	809.2	805.2
35°	819.1	820.7	824.7	828.7	835.3	842.2	848.5	851.5	856.4	856.7	853.1
37.5°	895.4	895.7	898.4	899.7	905.6	913.2	919.2	921.2	925.8	925.1	921.5
40°	984.2	985.9	986.9	988.9	995.1	1002.4	1008.7	1009.7	1014.6	1013.6	1009.0
42.5°	1087.0	1087.6	1093.2	1096.2	1102.1	1105.8	1113.7	1114.7	1120.6	1118.0	1112.7
45°	1202.2	1208.2	1213.4	1219.4	1225.7	1230.0	1236.2	1234.9	1238.9	1234.9	1231.9
47.5°	1323.4	1327.7	1339.6	1348.9	1359.1	1362.7	1371.7	1367.7	1371.7	1366.0	1365.0
50°	1456.9	1464.5	1474.7	1485.3	1496.2	1502.1	1513.7	1508.7	1514.0	1508.7	1505.7
52.5°	1588.3	1590.3	1612.8	1628.3	1643.5	1650.4	1657.3	1655.0	1655.4	1655.0	1652.1
55°	1713.2	1717.8	1740.2	1761.4	1787.8	1807.3	1819.2	1817.9	1814.9	1811.9	1807.0
57.5°	1853.9	1858.5	1884.2	1910.3	1940.4	1968.1	1992.2	2017.0	2026.6	2029.2	2018.3
60°	2044.1	2043.8	2078.1	2109.8	2152.8	2194.0	2246.9	2300.7	2362.5	2391.2	2353.2
62.5°	2237.6	2245.6	2295.1	2351.3	2439.8	2526.0	2623.4	2719.2	2817.0	2896.6	2812.0
65°	2214.5	2244.9	2318.6	2445.7	2609.2	2803.4	3013.5	3235.8	3436.6	3574.6	3419.7
67.5°	1919.3	1962.5	2037.5	2192.1	2396.5	2676.6	3029.3	3468.9	3979.9	4226.9	3920.8
70°	1391.1	1440.0	1518.6	1669.6	1872.0	2138.2	2521.4	3049.1	3725.6	3974.6	3637.4
72.5°	692.3	718.7	767.2	863.4	1016.6	1232.6	1580.1	2087.4	2685.8	2914.4	2606.2
75°	235.2	247.4	255.6	287.0	335.6	420.4	593.2	912.6	1392.1	1668.9	1372.3
77.5°	135.7	136.1	141.7	147.3	155.6	164.8	187.9	246.7	426.7	606.1	441.6
80°	87.9	87.5	92.1	96.4	102.1	106.7	108.0	114.3	131.8	156.2	139.7
82.5°	45.6	51.2	61.4	67.0	77.6	79.6	77.0	74.6	78.9	81.9	83.9
85°	25.1	21.8	32.7	42.3	46.9	47.6	47.6	44.9	46.6	45.6	49.5
87.5°	11.6	10.6	12.9	20.8	22.1	18.8	19.8	17.5	12.6	12.2	13.9
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°	715.7	715.7	715.7	715.7	715.7	715.7	715.7	715.7
2.5°	712.4	712.7	712.7	713.7	714.1	714.7	715.4	715.7
5°	706.8	707.8	707.1	708.1	708.1	708.8	708.8	709.1
7.5°	698.5	699.5	699.5	699.5	699.2	700.2	700.2	700.2
10°	690.0	690.6	690.3	689.6	689.0	690.0	689.6	689.3
12.5°	687.3	685.7	684.3	683.7	682.4	682.7	681.7	681.7
15°	689.0	686.0	683.7	682.7	681.4	680.7	680.0	680.4
17.5°	693.3	689.6	686.7	685.0	683.3	682.4	681.0	681.4
20°	700.9	696.6	692.3	689.0	686.0	684.3	683.3	683.0
22.5°	712.1	705.8	699.5	694.6	690.6	688.3	687.3	686.7
25°	725.0	718.0	710.8	705.1	701.2	698.2	696.2	696.2
27.5°	741.1	735.5	728.9	722.3	718.7	715.7	714.4	713.7
30°	768.2	762.9	757.7	751.4	746.8	743.8	741.5	739.5
32.5°	802.9	798.6	794.3	789.7	785.4	781.4	777.8	776.2
35°	851.8	848.5	845.5	840.2	838.6	836.3	834.3	832.6
37.5°	919.2	917.8	917.8	912.2	910.9	909.9	907.9	908.3
40°	1007.7	1009.0	1007.4	1005.4	1004.4	1001.7	1001.7	1004.1
42.5°	1112.4	1113.4	1117.0	1113.7	1117.3	1114.0	1112.1	1113.7
45°	1233.9	1237.6	1244.8	1241.5	1243.8	1238.2	1231.3	1231.6
47.5°	1370.3	1373.6	1376.6	1374.3	1374.6	1365.4	1356.1	1353.8
50°	1512.0	1513.3	1515.0	1511.7	1512.4	1502.1	1491.5	1491.9
52.5°	1652.1	1658.3	1664.9	1656.0	1654.0	1642.5	1627.6	1621.7
55°	1812.2	1821.2	1813.6	1798.0	1782.5	1767.0	1747.5	1744.2
57.5°	2009.8	1994.6	1970.8	1941.4	1919.9	1898.1	1878.3	1870.0
60°	2284.5	2227.4	2184.5	2140.9	2113.5	2086.7	2060.6	2056.7
62.5°	2673.0	2574.2	2488.7	2398.5	2324.8	2267.4	2221.5	2208.6
65°	3159.8	2926.3	2723.8	2534.9	2370.7	2246.9	2168.9	2134.6
67.5°	3369.2	2908.1	2561.0	2292.8	2078.1	1928.2	1844.0	1802.0
70°	2960.6	2411.7	2034.2	1765.7	1570.2	1410.3	1334.0	1289.1
72.5°	2036.8	1534.2	1213.1	990.2	834.0	700.2	647.3	643.4
75°	914.5	605.7	417.5	321.7	270.8	235.5	224.6	216.3
77.5°	256.0	189.3	168.8	157.9	147.3	135.1	130.5	131.5
80°	124.5	117.6	113.0	106.0	96.4	86.2	81.6	83.6
82.5°	82.6	81.6	84.6	79.6	65.7	55.8	46.9	42.9
85°	50.2	50.9	51.9	52.2	44.3	31.0	21.1	23.8
87.5°	19.8	22.8	24.8	25.8	24.1	14.9	11.9	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)