

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: STREETWORKS

Report Number: P268242

Luminaire Tested: **GAN-AF-02-LED-U-5MQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268242
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: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5MQ-7027-600
Description: GALLEON AREA AND ROADWAY 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: 7322.8 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' 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: 28.75 FT

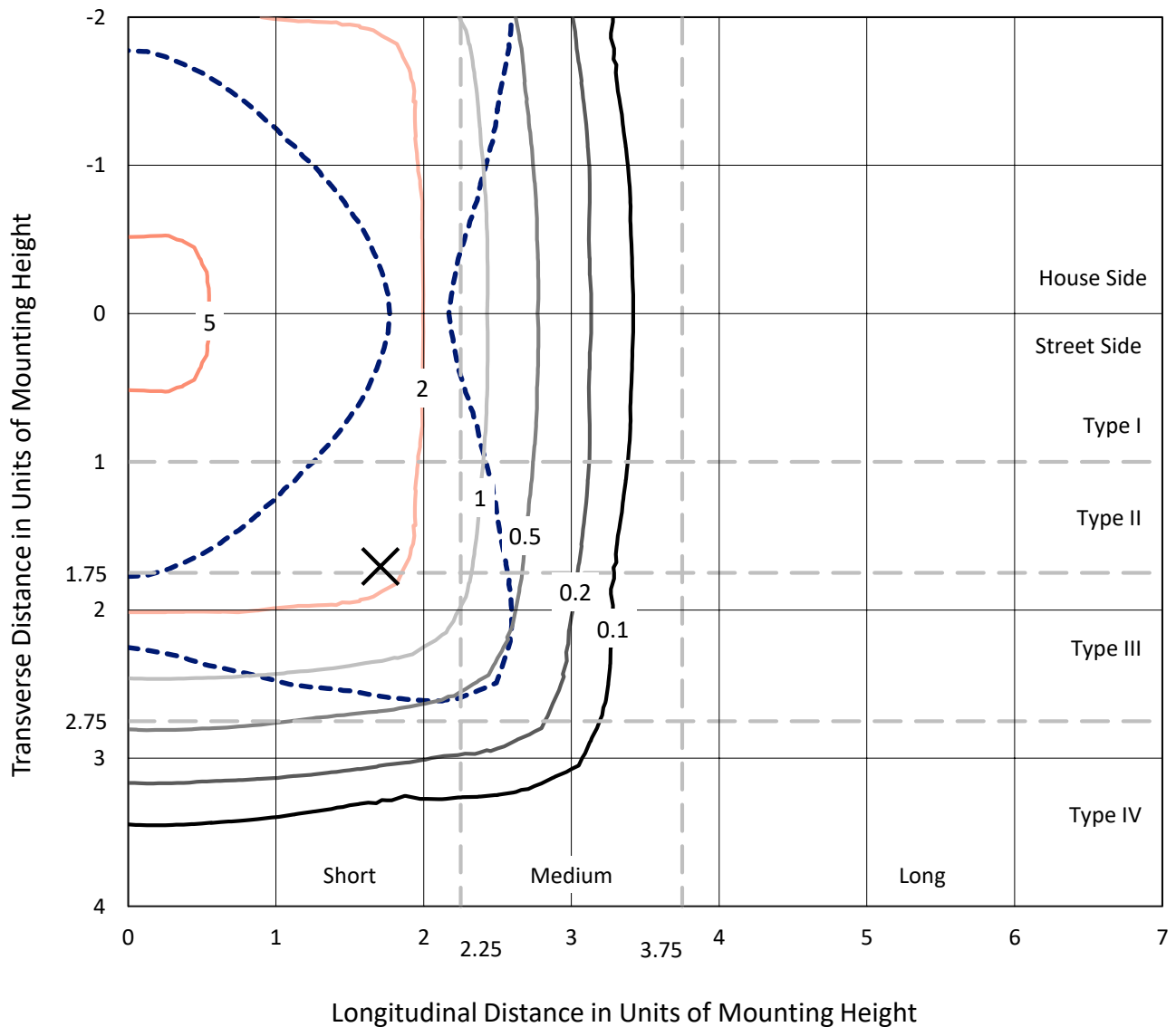


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

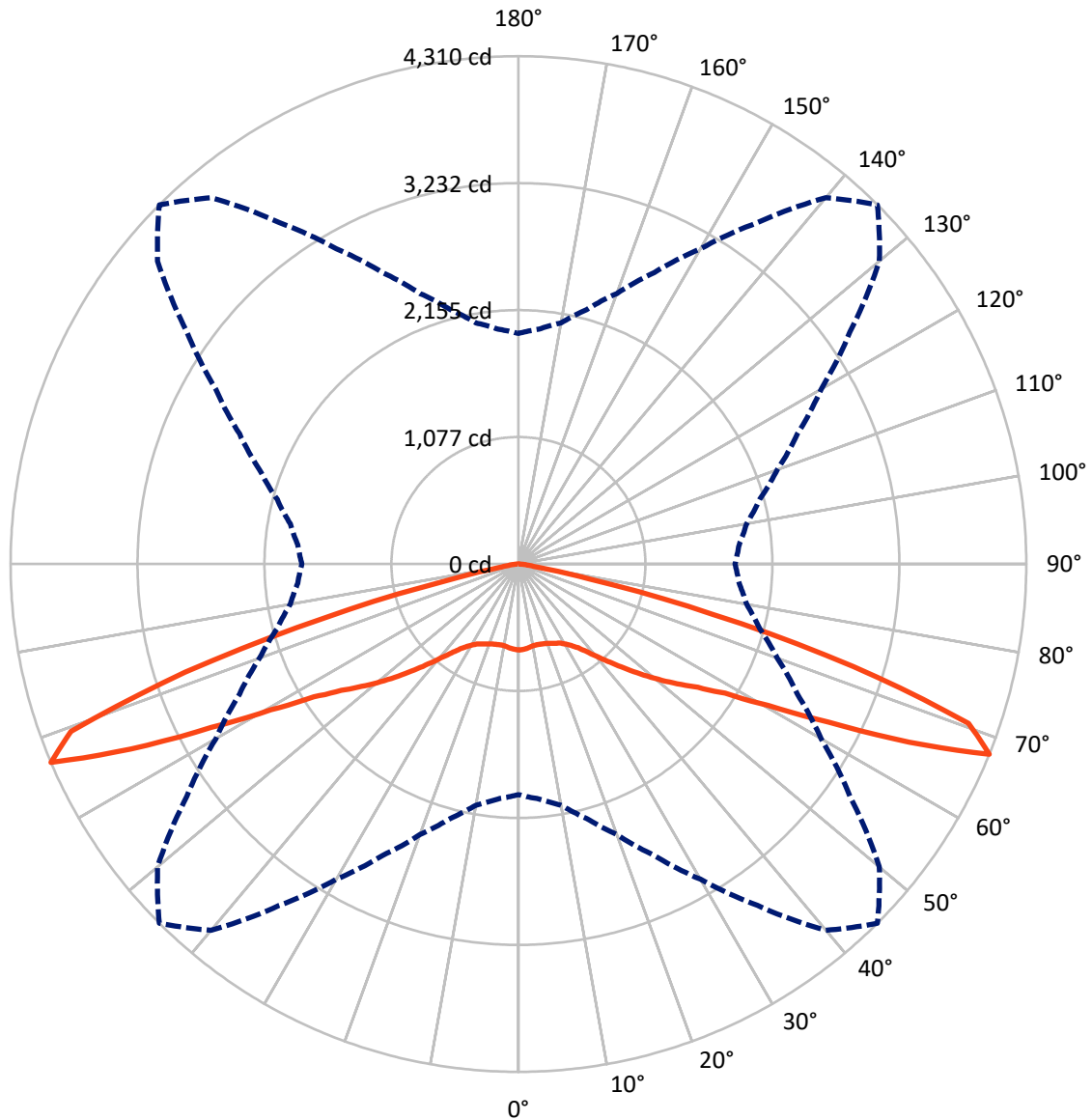


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - Full Cutoff

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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	3661.4	0.0	3661.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3661.4	0.0	3661.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	7322.8	0.0	7322.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	0.9
10°-20°	198.2	2.7
20°-30°	336.9	4.6
30°-40°	550.8	7.5
40°-50°	983.2	13.4
50°-60°	1657.8	22.6
60°-70°	2572.6	35.1
70°-80°	903.9	12.3
80°-90°	51.1	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°	7322.8	100.0
0°-180°	7322.8	100.0



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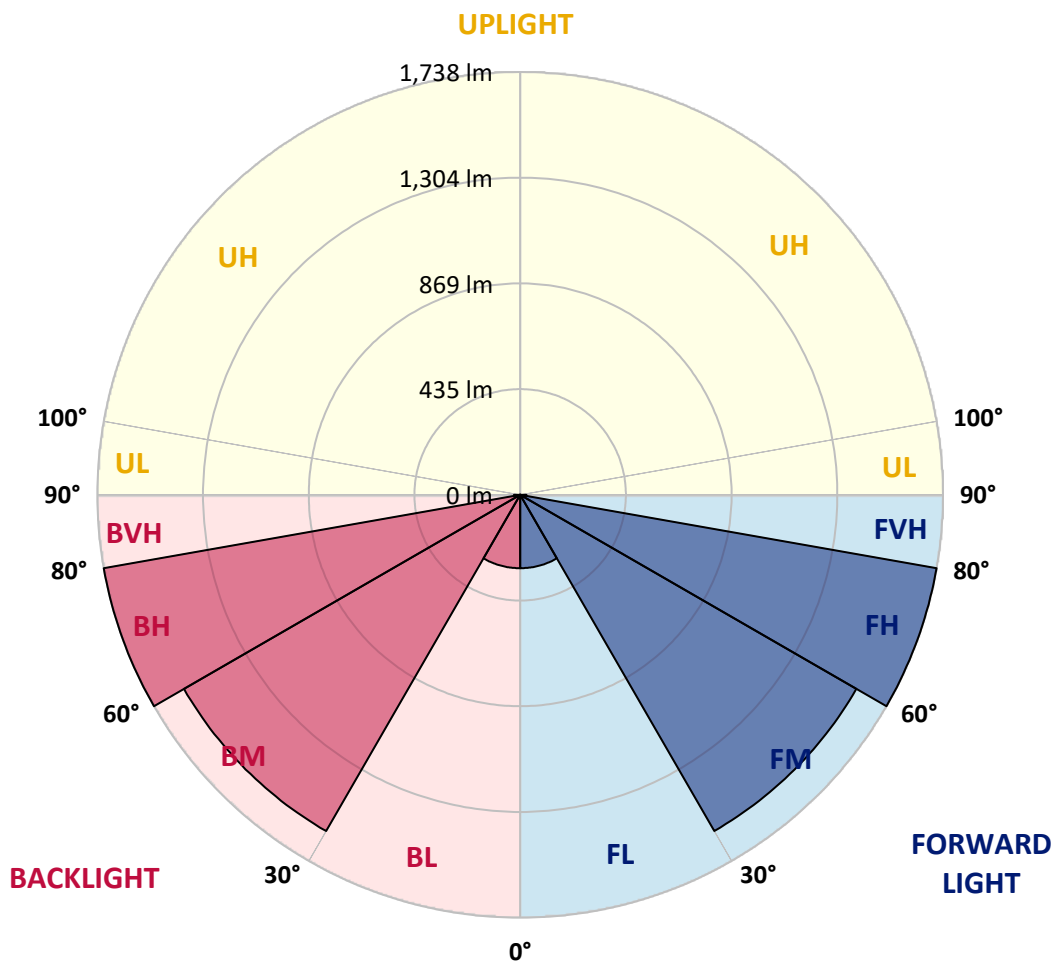
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.7	4.1			
FM	(30°-60°)	1595.9	21.8			
FH	(60°-80°)	1738.3	23.7			G1/1800
FVH	(80°-90°)	25.5	0.3			G1/100
BL	(0°-30°)	301.7	4.1	B1/500		
BM	(30°-60°)	1595.9	21.8	B2/2500		
BH	(60°-80°)	1738.3	23.7	B3/2500		G1/1800
BVH	(80°-90°)	25.5	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°	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8
2.5°	727.1	727.7	727.7	727.7	727.4	727.4	726.6	727.4	727.1	726.0	726.4
5°	721.0	721.7	721.7	721.2	722.3	722.0	721.0	721.7	721.2	720.7	721.0
7.5°	712.3	713.3	713.3	713.0	714.0	713.7	713.0	713.3	713.3	712.3	712.3
10°	702.5	703.2	703.2	702.8	704.5	704.5	704.1	705.2	705.4	704.5	703.8
12.5°	693.4	694.4	694.4	695.7	697.4	698.2	699.8	701.1	702.5	702.1	700.8
15°	688.0	688.7	690.0	691.6	694.4	696.7	699.4	702.5	705.2	705.9	703.8
17.5°	684.6	685.6	687.7	690.0	693.8	697.8	701.8	705.9	709.5	710.9	708.6
20°	683.6	684.2	686.3	690.3	695.4	701.4	707.1	711.8	716.9	718.6	716.9
22.5°	685.6	686.9	689.3	694.1	700.8	708.6	715.3	721.7	728.0	731.1	728.7
25°	694.7	696.0	699.2	705.2	712.5	720.7	728.3	735.8	741.6	744.5	742.9
27.5°	711.5	713.3	716.9	723.0	731.1	739.8	748.3	754.3	759.1	760.1	758.0
30°	736.8	740.6	745.0	751.6	761.0	768.5	776.9	782.2	788.1	788.1	786.3
32.5°	776.2	779.9	784.6	791.0	798.5	806.5	814.0	818.6	824.7	825.1	821.1
35°	835.2	836.9	840.9	844.9	851.7	858.7	865.2	868.1	873.2	873.5	869.9
37.5°	912.9	913.2	916.0	917.3	923.4	931.2	937.2	939.2	943.8	943.3	939.5
40°	1003.5	1005.3	1006.2	1008.3	1014.6	1022.0	1028.5	1029.5	1034.5	1033.5	1028.7
42.5°	1108.2	1109.0	1114.6	1117.8	1123.8	1127.5	1135.5	1136.5	1142.6	1139.9	1134.5
45°	1225.7	1231.8	1237.2	1243.3	1249.7	1254.0	1260.5	1259.2	1263.1	1259.2	1256.1
47.5°	1349.3	1353.7	1366.0	1375.3	1385.7	1389.5	1398.5	1394.4	1398.5	1392.8	1391.8
50°	1485.4	1493.3	1503.7	1514.5	1525.5	1531.6	1543.4	1538.3	1543.6	1538.3	1535.3
52.5°	1619.5	1621.5	1644.3	1660.2	1675.7	1682.7	1689.8	1687.5	1687.8	1687.5	1684.4
55°	1746.8	1751.4	1774.3	1795.9	1822.9	1842.8	1854.9	1853.6	1850.5	1847.5	1842.5
57.5°	1890.3	1895.0	1921.1	1947.9	1978.4	2006.8	2031.2	2056.6	2066.3	2069.1	2057.8
60°	2084.2	2083.9	2118.9	2151.3	2195.0	2237.0	2290.9	2345.8	2408.8	2438.1	2399.5
62.5°	2281.5	2289.6	2340.2	2397.3	2487.6	2575.5	2674.9	2772.4	2872.2	2953.4	2867.1
65°	2258.0	2288.9	2364.0	2493.7	2660.4	2858.3	3072.6	3299.2	3504.0	3644.8	3486.9
67.5°	1956.9	2001.1	2077.4	2235.1	2443.5	2729.1	3088.7	3536.9	4058.0	4309.8	3997.6
70°	1418.5	1468.3	1548.4	1702.3	1908.7	2180.1	2570.8	3108.9	3798.7	4052.6	3708.7
72.5°	705.9	732.7	782.2	880.2	1036.6	1256.8	1611.0	2128.4	2738.6	2971.6	2657.4
75°	239.8	252.2	260.7	292.7	342.2	428.8	604.7	930.5	1419.4	1701.6	1399.2
77.5°	138.3	138.8	144.4	150.1	158.6	168.1	191.6	251.5	435.0	617.9	450.2
80°	89.7	89.2	94.0	98.4	104.1	108.8	110.1	116.5	134.3	159.3	142.4
82.5°	46.4	52.2	62.6	68.5	79.1	81.1	78.4	76.0	80.5	83.5	85.6
85°	25.6	22.2	33.3	43.1	47.8	48.5	48.5	45.9	47.5	46.4	50.6
87.5°	11.8	10.8	13.1	21.2	22.5	19.3	20.2	17.8	12.8	12.4	14.2
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°	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8
2.5°	726.4	726.6	726.6	727.7	728.0	728.7	729.5	729.8
5°	720.7	721.7	721.0	722.0	722.0	722.6	722.6	723.0
7.5°	712.3	713.3	713.3	713.3	713.0	714.0	714.0	714.0
10°	703.6	704.1	703.8	703.2	702.5	703.6	703.2	702.8
12.5°	700.8	699.2	697.8	697.1	695.7	696.0	695.1	695.1
15°	702.5	699.4	697.1	696.0	694.7	694.1	693.4	693.8
17.5°	706.8	703.2	700.0	698.4	696.7	695.7	694.4	694.7
20°	714.6	710.2	705.9	702.5	699.4	697.8	696.7	696.5
22.5°	726.0	719.6	713.3	708.3	704.1	701.8	700.8	700.0
25°	739.1	732.1	724.8	719.0	715.0	711.8	709.9	709.9
27.5°	755.7	749.9	743.2	736.5	732.7	729.8	728.3	727.7
30°	783.3	777.9	772.5	766.2	761.5	758.3	756.1	753.9
32.5°	818.6	814.3	809.9	805.2	800.7	796.7	793.1	791.3
35°	868.5	865.2	862.2	856.8	855.0	852.8	850.7	849.0
37.5°	937.2	935.9	935.9	930.1	928.8	927.8	925.8	926.2
40°	1027.4	1028.7	1027.1	1025.1	1024.1	1021.5	1021.5	1023.8
42.5°	1134.2	1135.2	1139.0	1135.5	1139.2	1135.8	1133.9	1135.5
45°	1258.2	1261.8	1269.2	1265.9	1268.2	1262.5	1255.4	1255.8
47.5°	1397.3	1400.5	1403.6	1401.3	1401.5	1392.2	1382.8	1380.3
50°	1541.8	1543.0	1544.6	1541.3	1542.0	1531.6	1520.8	1521.1
52.5°	1684.4	1690.9	1697.5	1688.5	1686.5	1674.7	1659.4	1653.5
55°	1847.8	1856.8	1849.2	1833.4	1817.5	1801.6	1781.8	1778.5
57.5°	2049.2	2033.7	2009.4	1979.4	1957.5	1935.4	1915.1	1906.7
60°	2329.3	2271.1	2227.3	2182.8	2154.9	2127.6	2101.0	2097.0
62.5°	2725.4	2624.7	2537.4	2445.5	2370.4	2311.9	2265.0	2252.0
65°	3221.7	2983.7	2777.2	2584.7	2417.2	2290.9	2211.4	2176.5
67.5°	3435.3	2965.1	2611.3	2337.7	2118.9	1966.0	1880.2	1837.4
70°	3018.7	2459.0	2074.0	1800.4	1600.9	1437.9	1360.2	1314.4
72.5°	2076.8	1564.2	1236.8	1009.5	850.3	714.0	660.1	656.0
75°	932.5	617.7	425.6	328.1	276.1	240.0	229.0	220.5
77.5°	261.0	193.0	172.0	160.9	150.1	137.7	132.9	134.0
80°	127.0	119.8	115.2	108.1	98.4	87.9	83.2	85.2
82.5°	84.3	83.2	86.1	81.1	67.1	57.0	47.8	43.7
85°	51.3	51.8	52.9	53.2	45.2	31.7	21.6	24.3
87.5°	20.2	23.3	25.2	26.3	24.6	15.1	12.1	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)