

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: P192599

Luminaire Tested: **GAN-AF-01-LED-U-5NQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192599
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: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-5NQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6820 lumens
Efficiency: N/A
Efficacy: 101.8 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

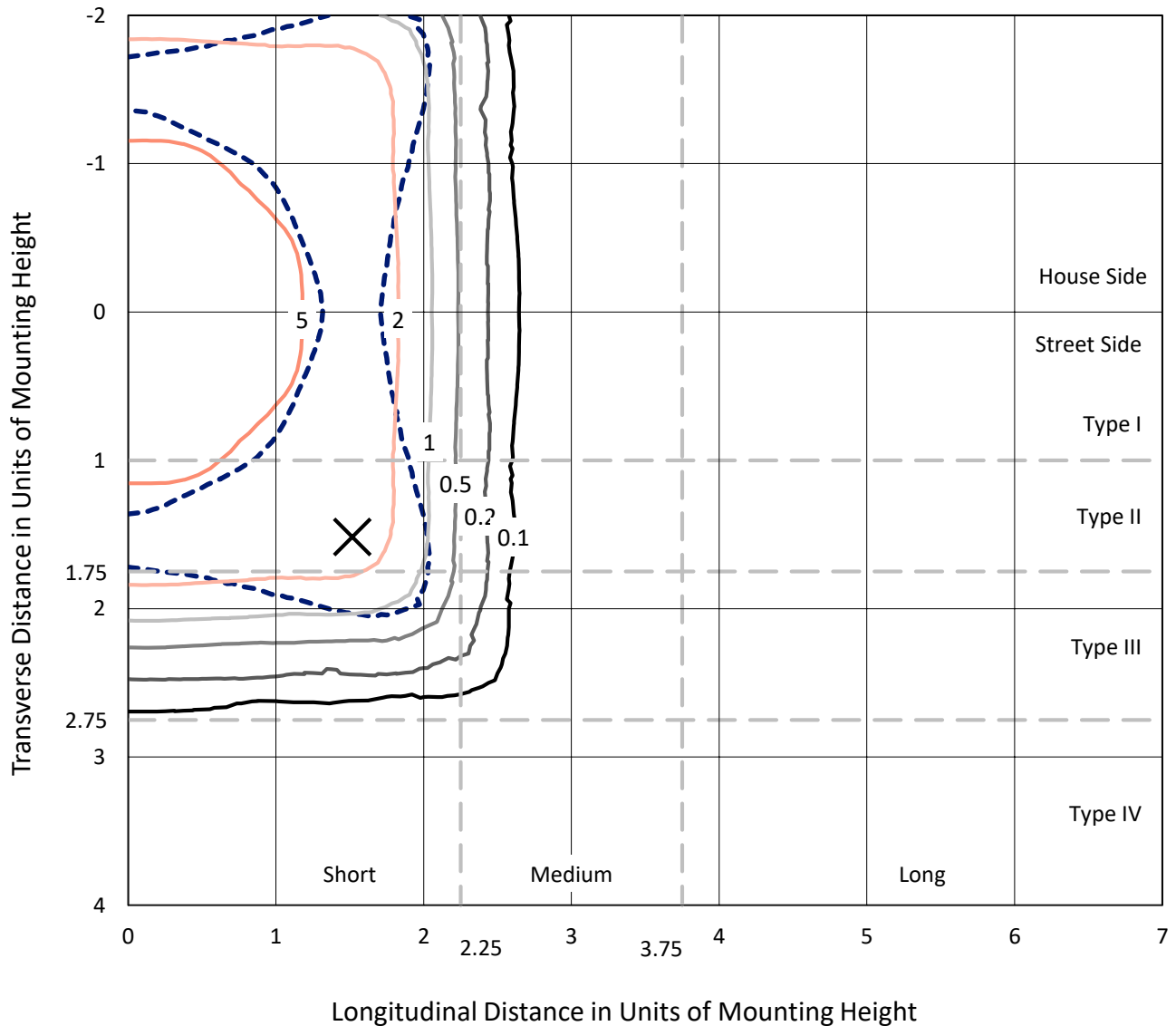
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

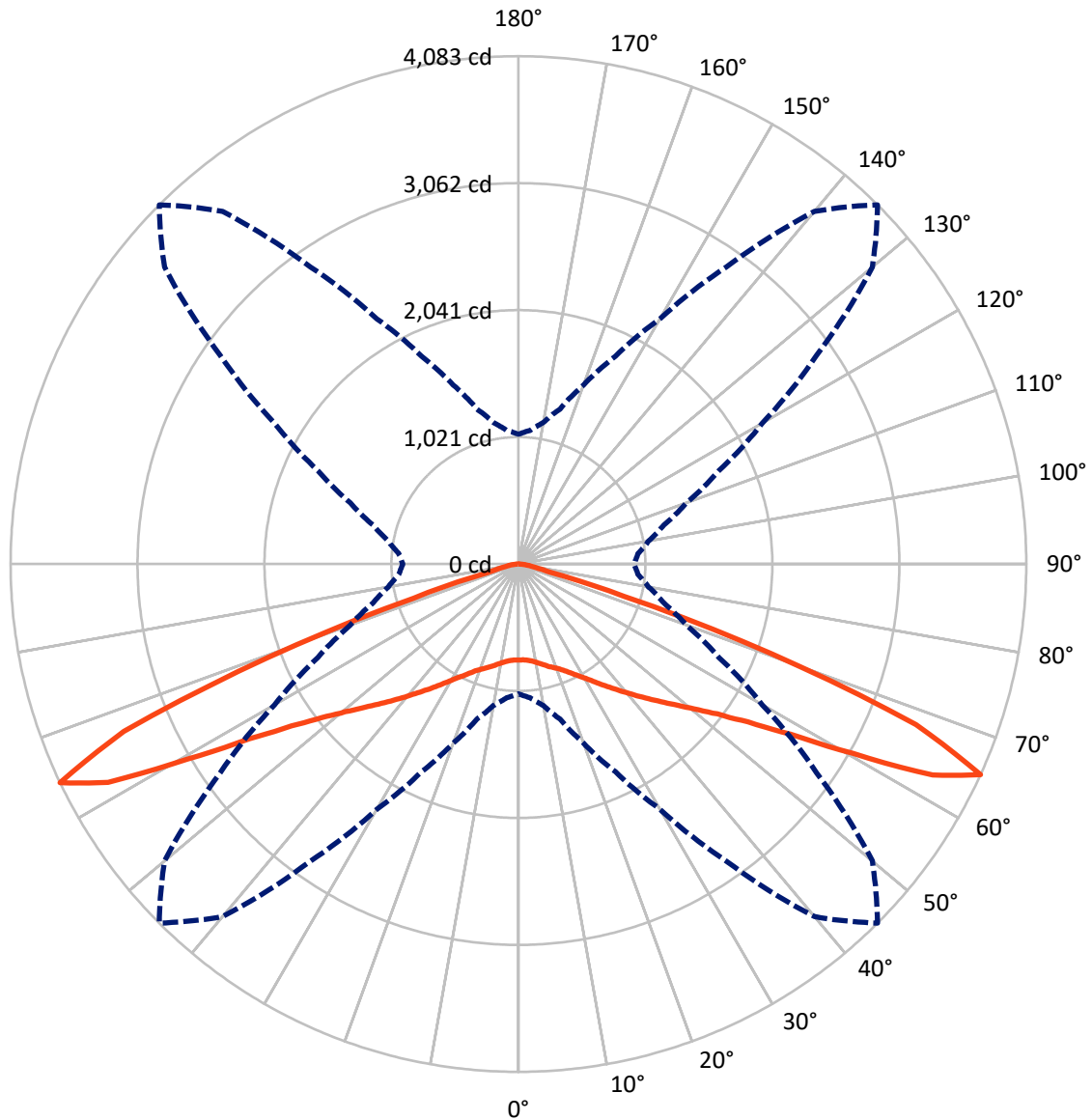


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - Full Cutoff

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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	3410.0	0.0	3410.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3410.0	0.0	3410.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6820.0	0.0	6820.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	1.1
10°-20°	241.2	3.5
20°-30°	451.0	6.6
30°-40°	762.8	11.2
40°-50°	1247.3	18.3
50°-60°	1983.5	29.1
60°-70°	1792.9	26.3
70°-80°	226.9	3.3
80°-90°	39.0	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°	6820.0	100.0
0°-180°	6820.0	100.0



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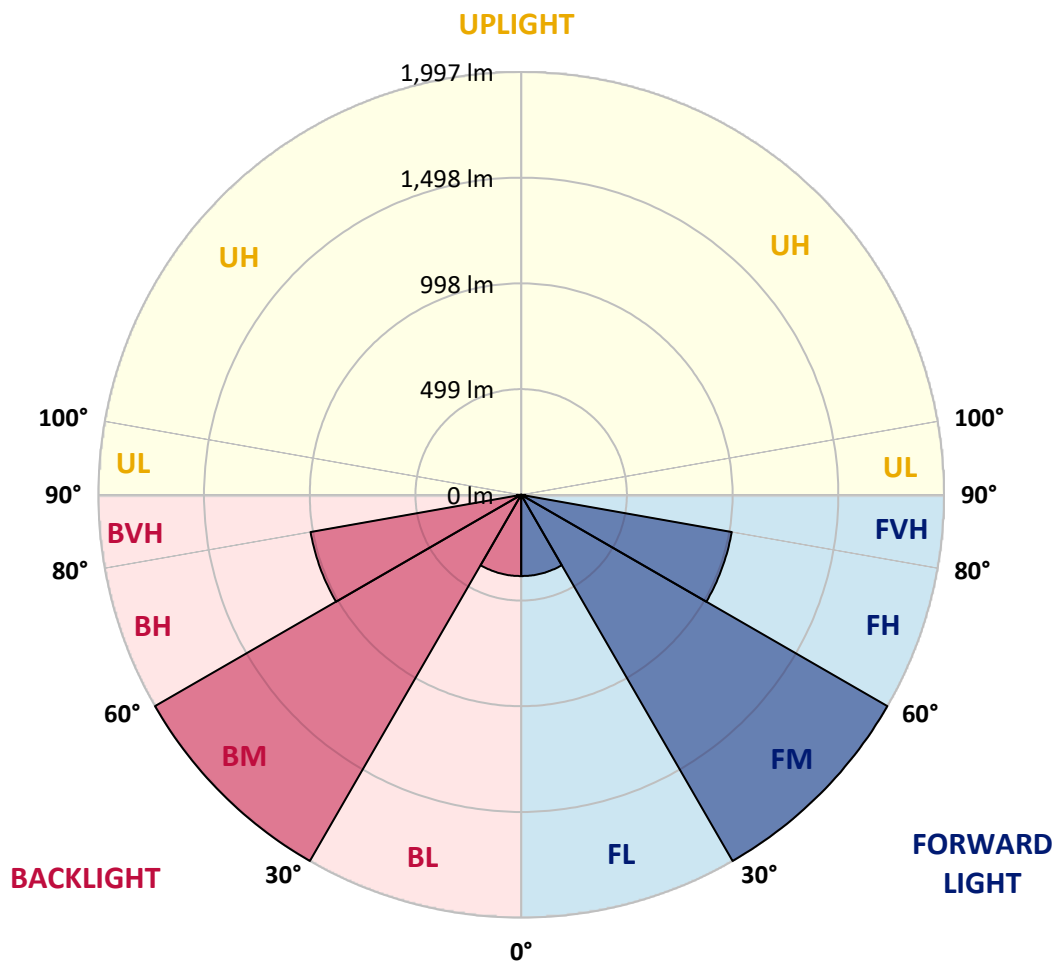
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	383.7	5.6			
FM	(30°-60°)	1996.8	29.3			
FH	(60°-80°)	1009.9	14.8			G1/1800
FVH	(80°-90°)	19.5	0.3			G1/100
BL	(0°-30°)	383.7	5.6	B1/500		
BM	(30°-60°)	1996.8	29.3	B2/2500		
BH	(60°-80°)	1009.9	14.8	B3/2500		G1/1800
BVH	(80°-90°)	19.5	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°	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7
2.5°	772.4	773.0	773.5	773.0	773.5	772.7	772.0	773.0	772.0	771.1	771.7
5°	779.0	779.3	779.3	778.4	779.3	778.7	777.7	779.0	778.0	777.2	777.7
7.5°	790.2	791.5	790.5	789.6	790.2	789.6	789.0	789.3	789.0	788.0	788.3
10°	805.2	806.3	805.6	805.2	805.9	805.6	804.9	804.5	804.9	803.9	803.9
12.5°	823.4	823.2	822.8	823.2	824.1	824.1	823.7	824.1	824.7	825.0	824.4
15°	841.3	842.0	842.0	842.0	843.9	845.4	846.4	847.1	848.3	848.6	847.5
17.5°	863.7	863.7	863.3	863.7	865.6	868.2	869.0	870.4	871.7	872.7	871.1
20°	888.6	889.3	889.3	889.9	892.4	895.3	895.3	895.9	895.3	895.9	895.0
22.5°	919.0	920.8	920.8	921.2	923.7	927.3	926.3	927.3	925.7	926.9	925.7
25°	958.5	961.4	960.7	960.7	962.7	964.9	965.2	967.2	966.8	968.5	967.5
27.5°	1003.2	1007.7	1009.0	1008.7	1010.0	1012.2	1012.9	1015.0	1013.8	1015.0	1014.5
30°	1056.9	1058.8	1061.4	1062.3	1063.9	1066.2	1066.2	1066.5	1065.0	1066.8	1067.8
32.5°	1112.5	1116.0	1118.6	1124.3	1127.2	1128.7	1128.4	1129.0	1127.4	1130.1	1131.9
35°	1185.9	1188.5	1192.7	1197.2	1201.0	1200.6	1199.6	1200.0	1200.0	1202.3	1204.1
37.5°	1274.4	1275.0	1280.5	1286.8	1288.8	1286.8	1281.2	1279.9	1277.0	1279.9	1283.0
40°	1368.0	1370.2	1381.1	1385.3	1386.2	1382.6	1374.4	1369.6	1363.2	1366.8	1371.2
42.5°	1466.0	1470.5	1480.5	1487.8	1491.0	1488.7	1477.3	1469.9	1461.6	1463.5	1468.0
45°	1574.7	1580.1	1594.2	1601.2	1607.2	1603.7	1592.6	1581.4	1568.3	1569.3	1576.3
47.5°	1696.0	1701.5	1719.6	1731.5	1734.7	1734.1	1721.6	1706.3	1688.4	1687.7	1693.8
50°	1832.1	1837.5	1860.2	1878.3	1887.7	1886.7	1872.0	1850.3	1828.6	1828.9	1836.5
52.5°	1965.0	1971.7	1995.3	2026.6	2044.8	2057.9	2048.9	2028.5	2002.0	2002.7	2009.8
55°	2089.6	2100.7	2127.9	2170.3	2204.2	2240.9	2251.5	2250.8	2234.9	2239.4	2246.4
57.5°	2149.9	2166.5	2208.3	2275.5	2344.4	2419.2	2482.4	2529.7	2549.8	2580.1	2573.2
60°	2035.6	2062.0	2123.7	2222.5	2358.8	2514.7	2681.8	2844.9	2984.2	3089.3	3028.8
62.5°	1666.6	1701.1	1775.9	1902.4	2108.7	2358.2	2678.0	3063.7	3484.1	3737.6	3556.6
65°	1042.9	1078.6	1154.7	1290.1	1531.6	1841.7	2275.5	2914.9	3700.3	4082.6	3714.0
67.5°	406.6	426.1	467.3	553.8	735.4	1011.2	1446.6	2172.3	3111.6	3446.7	3053.8
70°	203.8	205.7	213.4	229.3	268.3	348.4	530.2	1007.1	1784.5	2155.3	1720.3
72.5°	147.3	147.6	151.5	158.4	170.9	188.8	223.2	308.2	580.3	886.9	543.9
75°	112.7	114.0	116.3	120.0	126.8	135.7	148.1	177.5	220.0	255.2	214.7
77.5°	86.9	89.5	91.0	94.5	98.7	104.8	108.2	119.4	139.0	146.3	144.0
80°	66.1	68.4	71.9	74.8	77.6	80.6	79.2	84.3	94.5	100.6	97.5
82.5°	42.2	44.7	54.9	57.5	58.8	60.6	58.5	58.8	63.3	67.0	63.3
85°	27.1	28.7	34.9	38.0	38.4	39.6	38.7	36.4	36.4	33.3	37.3
87.5°	12.4	12.8	15.7	18.6	19.1	17.3	16.9	16.3	13.1	12.4	13.4
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°	771.7	771.7	771.7	771.7	771.7	771.7	771.7	771.7
2.5°	771.4	772.0	772.4	773.2	773.5	773.5	773.9	774.5
5°	777.4	778.4	778.7	780.0	780.3	780.0	780.6	780.9
7.5°	788.3	789.8	790.5	791.8	790.8	792.1	792.4	792.4
10°	804.2	805.9	806.3	807.4	806.8	807.4	807.4	806.8
12.5°	825.4	825.7	824.7	825.7	824.4	825.0	824.1	823.4
15°	848.6	847.8	845.4	845.4	843.6	843.9	843.6	843.3
17.5°	871.4	869.3	867.8	867.2	865.6	865.3	864.4	864.4
20°	896.3	895.3	894.3	893.0	891.4	889.9	889.6	890.1
22.5°	926.3	926.0	926.0	925.3	923.1	921.5	920.5	920.5
25°	966.5	963.6	963.6	963.3	962.3	961.4	959.6	960.5
27.5°	1011.8	1010.3	1011.5	1011.2	1010.3	1010.3	1009.0	1009.0
30°	1067.8	1067.1	1069.1	1067.5	1064.3	1063.9	1062.6	1061.0
32.5°	1132.3	1131.6	1134.5	1132.6	1127.4	1124.6	1122.1	1120.8
35°	1204.1	1204.5	1208.0	1206.7	1201.0	1199.0	1194.5	1193.9
37.5°	1282.7	1287.8	1293.9	1295.2	1290.4	1289.1	1284.4	1281.7
40°	1375.0	1381.7	1391.0	1393.3	1388.1	1387.1	1380.5	1377.0
42.5°	1473.4	1485.0	1496.5	1498.4	1493.2	1488.1	1481.8	1479.2
45°	1583.2	1597.1	1612.0	1615.8	1608.2	1602.2	1593.9	1593.9
47.5°	1706.6	1723.8	1740.7	1751.3	1744.4	1737.9	1727.9	1721.6
50°	1852.3	1875.9	1898.0	1908.8	1897.7	1885.5	1868.3	1862.5
52.5°	2035.0	2060.5	2079.6	2073.8	2056.7	2039.8	2020.9	2013.2
55°	2268.1	2276.8	2276.8	2255.0	2220.4	2192.1	2162.3	2152.5
57.5°	2559.7	2526.5	2475.4	2410.6	2329.1	2258.2	2210.4	2187.6
60°	2902.5	2742.7	2562.2	2385.0	2239.4	2119.3	2048.1	2015.4
62.5°	3130.9	2713.0	2351.5	2066.8	1857.3	1712.6	1614.3	1575.9
65°	2926.1	2262.6	1778.4	1438.0	1209.6	1062.3	964.9	929.1
67.5°	2143.2	1417.8	947.1	678.7	497.3	396.7	356.7	340.2
70°	962.0	499.2	306.0	239.0	206.1	189.1	181.7	179.1
72.5°	290.0	209.9	177.0	159.7	146.6	138.3	132.2	131.5
75°	175.1	145.7	129.4	119.1	110.8	104.2	100.9	100.0
77.5°	122.4	107.0	99.3	92.0	85.5	80.6	77.6	75.4
80°	85.9	78.5	75.1	70.9	66.7	62.0	57.8	55.9
82.5°	57.5	55.9	55.9	53.3	49.8	45.4	37.0	35.2
85°	37.0	36.7	37.3	36.4	33.9	29.1	23.9	22.7
87.5°	17.3	17.6	19.4	19.1	18.6	15.3	12.1	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)