

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: P191649

Luminaire Tested: **GAN-AF-01-LED-U-5NQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191649
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 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: 6429 lumens
Efficiency: N/A
Efficacy: 109.0 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

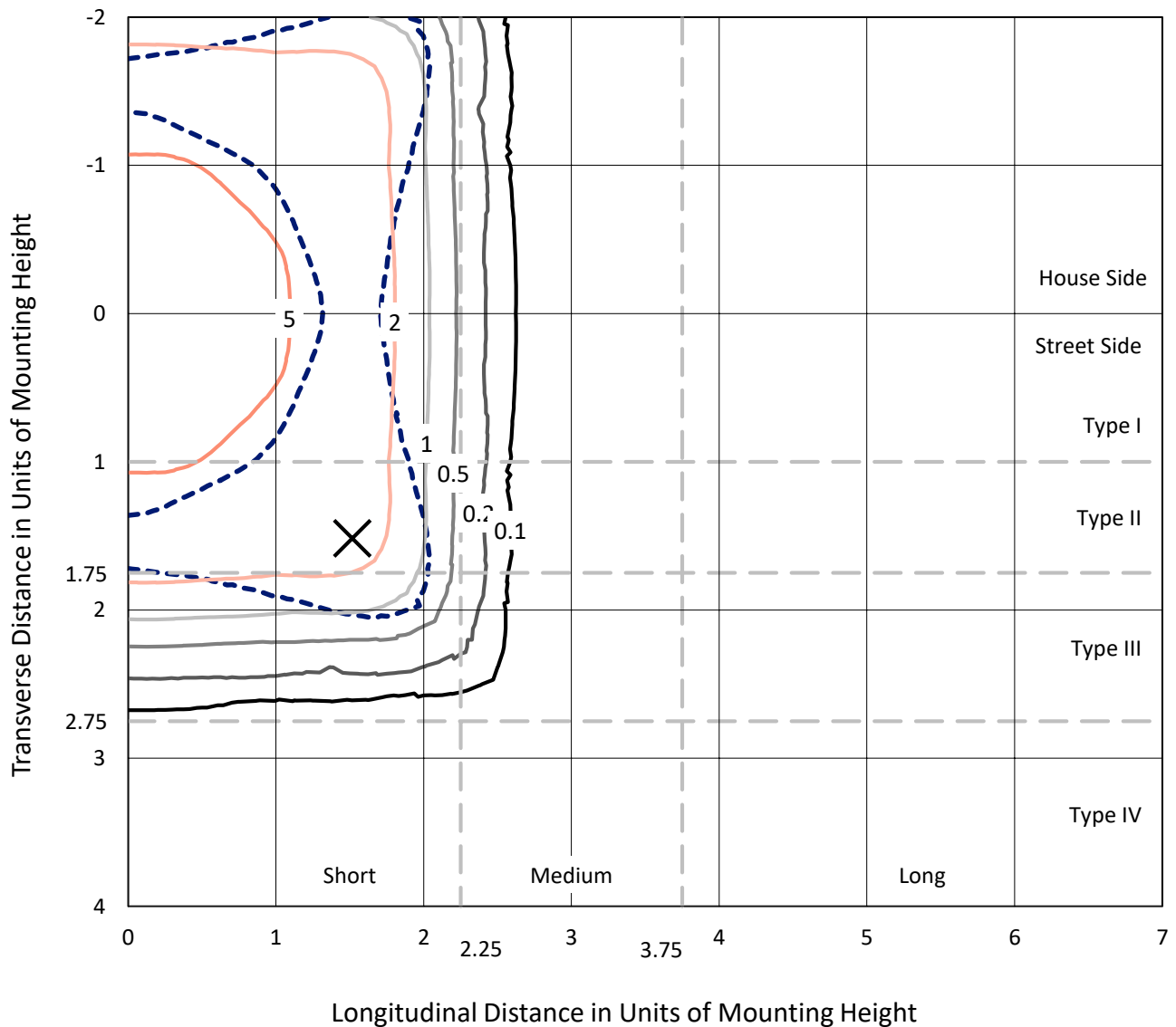
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

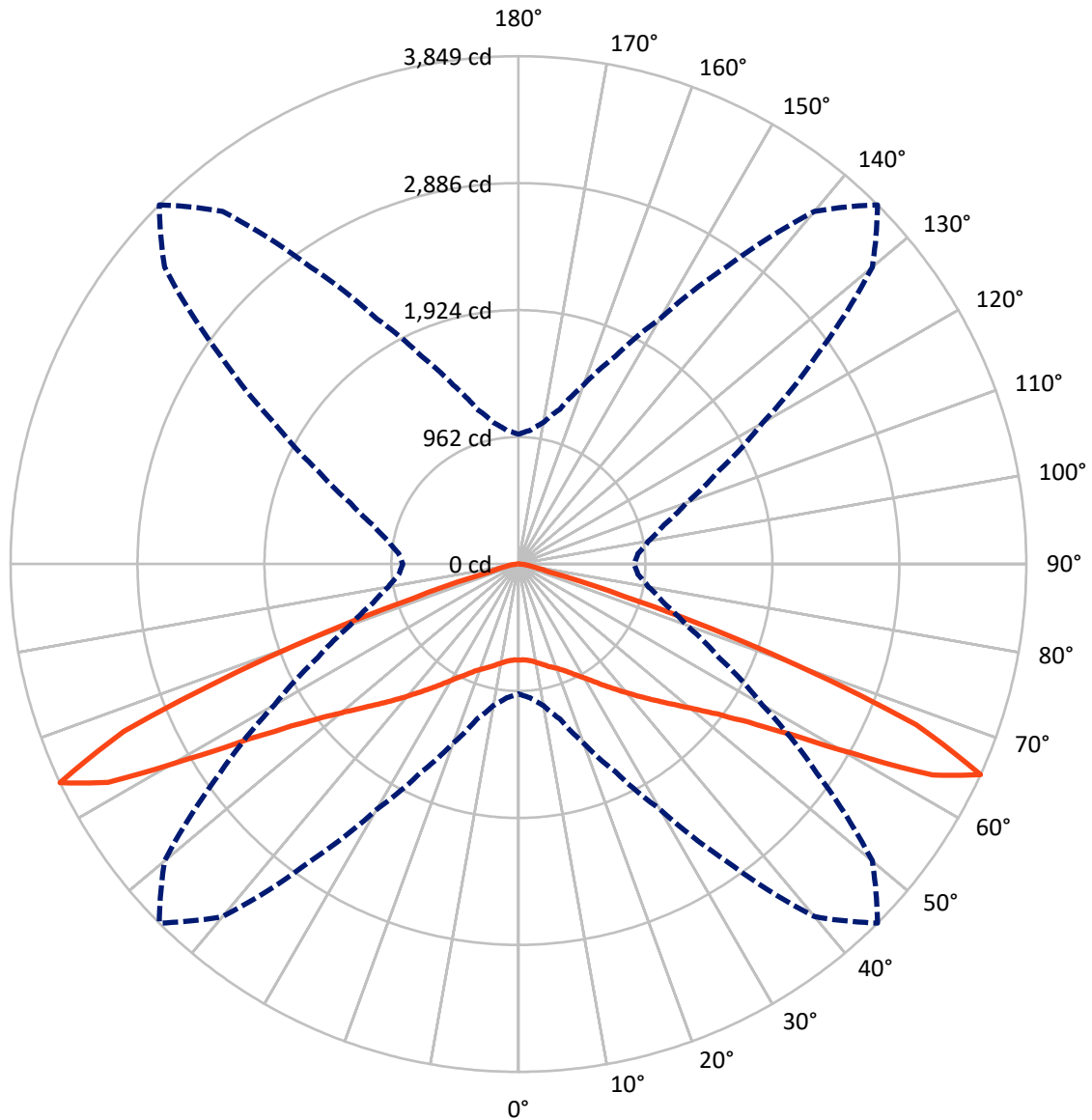
✕ Max cd
 - - - 1/2 Max cd



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 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3214.5	0.0	3214.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3214.5	0.0	3214.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6429.0	0.0	6429.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	1.1
10°-20°	227.4	3.5
20°-30°	425.2	6.6
30°-40°	719.1	11.2
40°-50°	1175.8	18.3
50°-60°	1869.8	29.1
60°-70°	1690.1	26.3
70°-80°	213.9	3.3
80°-90°	36.8	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°	6429.0	100.0
0°-180°	6429.0	100.0



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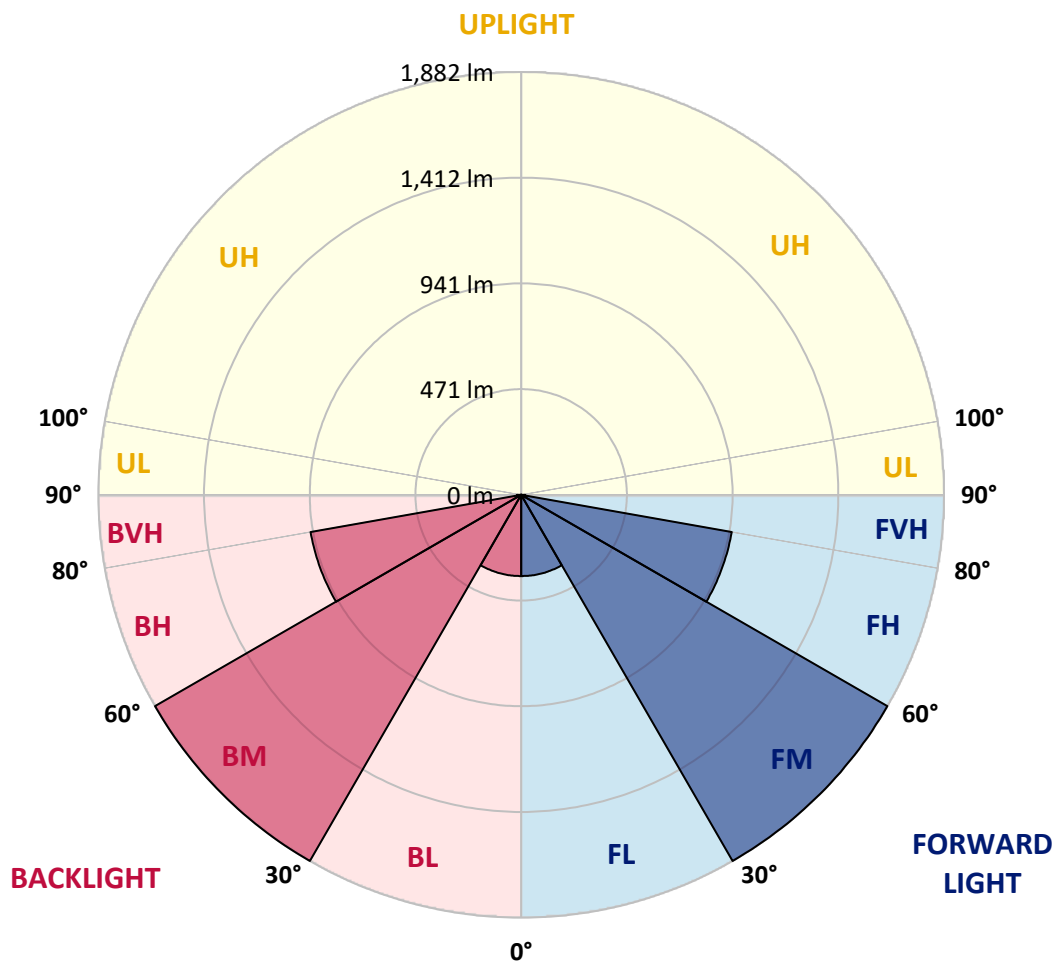
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	361.8	5.6			
FM	(30°-60°)	1882.3	29.3			
FH	(60°-80°)	952.0	14.8			G1/1800
FVH	(80°-90°)	18.4	0.3			G1/100
BL	(0°-30°)	361.8	5.6	B1/500		
BM	(30°-60°)	1882.3	29.3	B2/2500		
BH	(60°-80°)	952.0	14.8	B2/1000		G1/1800
BVH	(80°-90°)	18.4	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°	727.4	727.4	727.4	727.4	727.4	727.4	727.4	727.4	727.4	727.4	727.4
2.5°	728.0	728.6	729.3	728.6	729.3	728.3	727.7	728.6	727.7	726.8	727.4
5°	734.4	734.7	734.7	733.8	734.7	734.1	733.2	734.4	733.5	732.6	733.2
7.5°	744.9	746.1	745.2	744.3	744.9	744.3	743.7	744.0	743.7	742.8	743.1
10°	759.1	760.0	759.4	759.1	759.7	759.4	758.8	758.5	758.8	757.9	757.9
12.5°	776.2	775.9	775.6	775.9	776.8	776.8	776.5	776.8	777.4	777.7	777.1
15°	793.1	793.7	793.7	793.7	795.5	797.0	797.9	798.5	799.7	800.0	798.8
17.5°	814.2	814.2	813.9	814.2	816.0	818.4	819.3	820.5	821.7	822.6	821.1
20°	837.6	838.2	838.2	838.8	841.3	844.0	844.0	844.6	844.0	844.6	843.7
22.5°	866.2	868.1	868.1	868.4	870.8	874.1	873.2	874.1	872.6	873.8	872.6
25°	903.6	906.3	905.7	905.7	907.5	909.6	909.9	911.7	911.4	912.9	912.0
27.5°	945.7	950.0	951.2	950.9	952.1	954.2	954.8	956.9	955.7	956.9	956.3
30°	996.3	998.1	1000.5	1001.4	1002.9	1005.1	1005.1	1005.4	1003.8	1005.7	1006.6
32.5°	1048.7	1052.0	1054.4	1059.9	1062.6	1064.1	1063.8	1064.4	1062.9	1065.3	1067.1
35°	1118.0	1120.4	1124.3	1128.5	1132.1	1131.8	1130.9	1131.2	1131.2	1133.3	1135.1
37.5°	1201.4	1202.0	1207.1	1213.1	1214.9	1213.1	1207.7	1206.5	1203.8	1206.5	1209.5
40°	1289.6	1291.7	1301.9	1305.8	1306.8	1303.4	1295.6	1291.1	1285.1	1288.4	1292.6
42.5°	1382.0	1386.2	1395.6	1402.5	1405.5	1403.4	1392.6	1385.6	1377.8	1379.6	1383.8
45°	1484.4	1489.5	1502.8	1509.4	1515.1	1511.8	1501.3	1490.7	1478.4	1479.3	1485.9
47.5°	1598.8	1603.9	1621.1	1632.2	1635.2	1634.6	1622.9	1608.4	1591.6	1591.0	1596.7
50°	1727.1	1732.2	1753.6	1770.7	1779.5	1778.6	1764.7	1744.2	1723.8	1724.1	1731.3
52.5°	1852.3	1858.7	1880.9	1910.4	1927.6	1940.0	1931.5	1912.3	1887.3	1887.9	1894.5
55°	1969.8	1980.3	2005.9	2045.9	2077.9	2112.5	2122.4	2121.8	2106.8	2111.0	2117.6
57.5°	2026.7	2042.3	2081.8	2145.0	2210.0	2280.5	2340.1	2384.7	2403.6	2432.2	2425.6
60°	1918.9	1943.9	2002.0	2095.0	2223.6	2370.5	2528.0	2681.9	2813.1	2912.2	2855.3
62.5°	1571.1	1603.6	1674.1	1793.3	1987.8	2223.0	2524.4	2888.1	3284.3	3523.4	3352.7
65°	983.1	1016.8	1088.5	1216.1	1443.7	1736.1	2145.0	2747.8	3488.2	3848.6	3501.1
67.5°	383.3	401.7	440.5	522.1	693.1	953.3	1363.7	2047.7	2933.3	3249.1	2878.8
70°	192.1	193.9	201.1	216.2	252.9	328.5	499.8	949.4	1682.2	2031.8	1621.7
72.5°	138.8	139.1	142.7	149.3	161.1	177.9	210.5	290.6	547.1	836.1	512.8
75°	106.3	107.5	109.6	113.2	119.5	128.0	139.7	167.4	207.5	240.6	202.3
77.5°	81.9	84.3	85.8	89.1	93.0	98.8	102.1	112.6	131.0	137.9	135.8
80°	62.3	64.4	67.7	70.5	73.2	75.9	74.7	79.5	89.1	94.8	91.8
82.5°	39.7	42.2	51.8	54.2	55.4	57.2	55.1	55.4	59.6	63.2	59.6
85°	25.6	27.1	32.8	35.8	36.1	37.3	36.4	34.3	34.3	31.3	35.2
87.5°	11.7	12.0	14.8	17.5	18.1	16.3	16.0	15.4	12.3	11.7	12.6
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°	727.4	727.4	727.4	727.4	727.4	727.4	727.4	727.4
2.5°	727.1	727.7	728.0	729.0	729.3	729.3	729.6	730.2
5°	732.9	733.8	734.1	735.3	735.6	735.3	735.9	736.2
7.5°	743.1	744.6	745.2	746.4	745.5	746.7	747.0	747.0
10°	758.2	759.7	760.0	761.2	760.6	761.2	761.2	760.6
12.5°	778.0	778.3	777.4	778.3	777.1	777.7	776.8	776.2
15°	800.0	799.1	797.0	797.0	795.2	795.5	795.2	794.9
17.5°	821.4	819.6	818.1	817.5	816.0	815.7	814.8	814.8
20°	844.9	844.0	843.1	841.9	840.4	838.8	838.5	839.2
22.5°	873.2	872.9	872.9	872.3	870.2	868.7	867.8	867.8
25°	911.1	908.4	908.4	908.1	907.2	906.3	904.5	905.4
27.5°	953.9	952.4	953.6	953.3	952.4	952.4	951.2	951.2
30°	1006.6	1006.0	1007.8	1006.3	1003.2	1002.9	1001.7	1000.2
32.5°	1067.4	1066.8	1069.5	1067.7	1062.9	1060.2	1057.7	1056.5
35°	1135.1	1135.4	1138.7	1137.5	1132.1	1130.3	1126.1	1125.5
37.5°	1209.2	1214.0	1219.7	1220.9	1216.4	1215.2	1210.7	1208.3
40°	1296.2	1302.5	1311.3	1313.4	1308.6	1307.7	1301.3	1298.0
42.5°	1388.9	1399.8	1410.6	1412.4	1407.6	1402.8	1396.8	1394.4
45°	1492.5	1505.5	1519.6	1523.2	1516.0	1510.3	1502.5	1502.5
47.5°	1608.7	1625.0	1641.0	1650.9	1644.3	1638.3	1628.9	1622.9
50°	1746.0	1768.3	1789.1	1799.3	1788.8	1777.4	1761.1	1755.7
52.5°	1918.3	1942.4	1960.4	1955.0	1938.7	1922.8	1905.0	1897.8
55°	2138.1	2146.2	2146.2	2125.7	2093.2	2066.4	2038.4	2029.1
57.5°	2413.0	2381.7	2333.5	2272.4	2195.6	2128.7	2083.6	2062.2
60°	2736.0	2585.5	2415.4	2248.3	2111.0	1997.8	1930.6	1899.9
62.5°	2951.3	2557.5	2216.7	1948.4	1750.9	1614.5	1521.7	1485.6
65°	2758.3	2133.0	1676.5	1355.5	1140.2	1001.4	909.6	875.9
67.5°	2020.3	1336.6	892.7	639.8	468.8	374.0	336.3	320.7
70°	906.9	470.6	288.4	225.2	194.2	178.2	171.3	168.9
72.5°	273.4	197.8	166.8	150.5	138.2	130.4	124.7	124.1
75°	165.0	137.3	121.9	112.3	104.5	98.2	95.1	94.2
77.5°	115.3	100.9	93.6	86.7	80.7	75.9	73.2	71.1
80°	81.0	74.1	70.8	66.8	62.9	58.4	54.5	52.7
82.5°	54.2	52.7	52.7	50.3	47.0	42.8	34.9	33.1
85°	34.9	34.6	35.2	34.3	31.9	27.4	22.6	21.4
87.5°	16.3	16.6	18.4	18.1	17.5	14.5	11.4	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)