

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: P268168

Luminaire Tested: **GAN-AF-01-LED-U-5NQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268168
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 6126.4 lumens
Efficiency: N/A
Efficacy: 91.4 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): 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

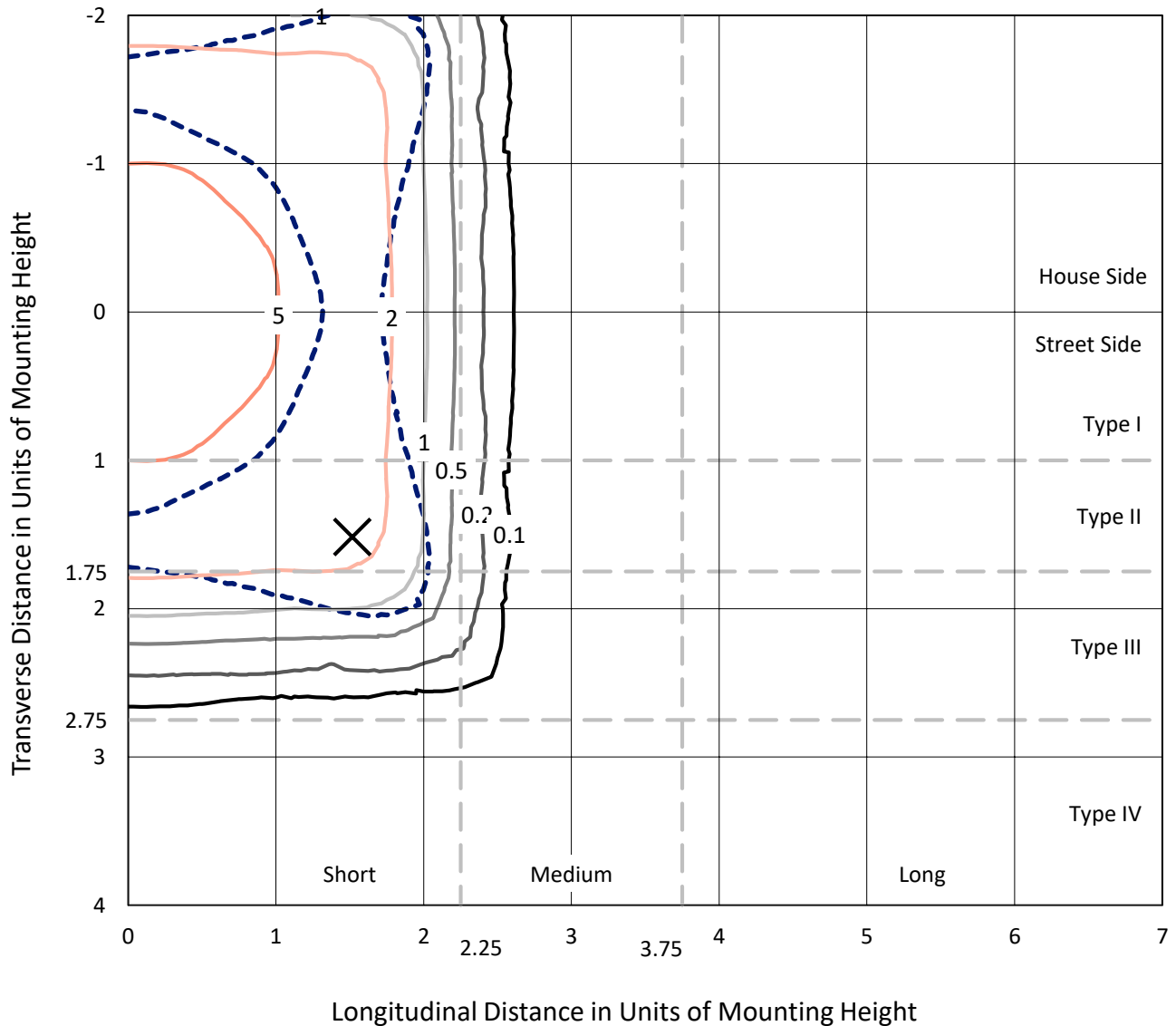


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Iso-Footcandle Lines of Horizontal Illumination

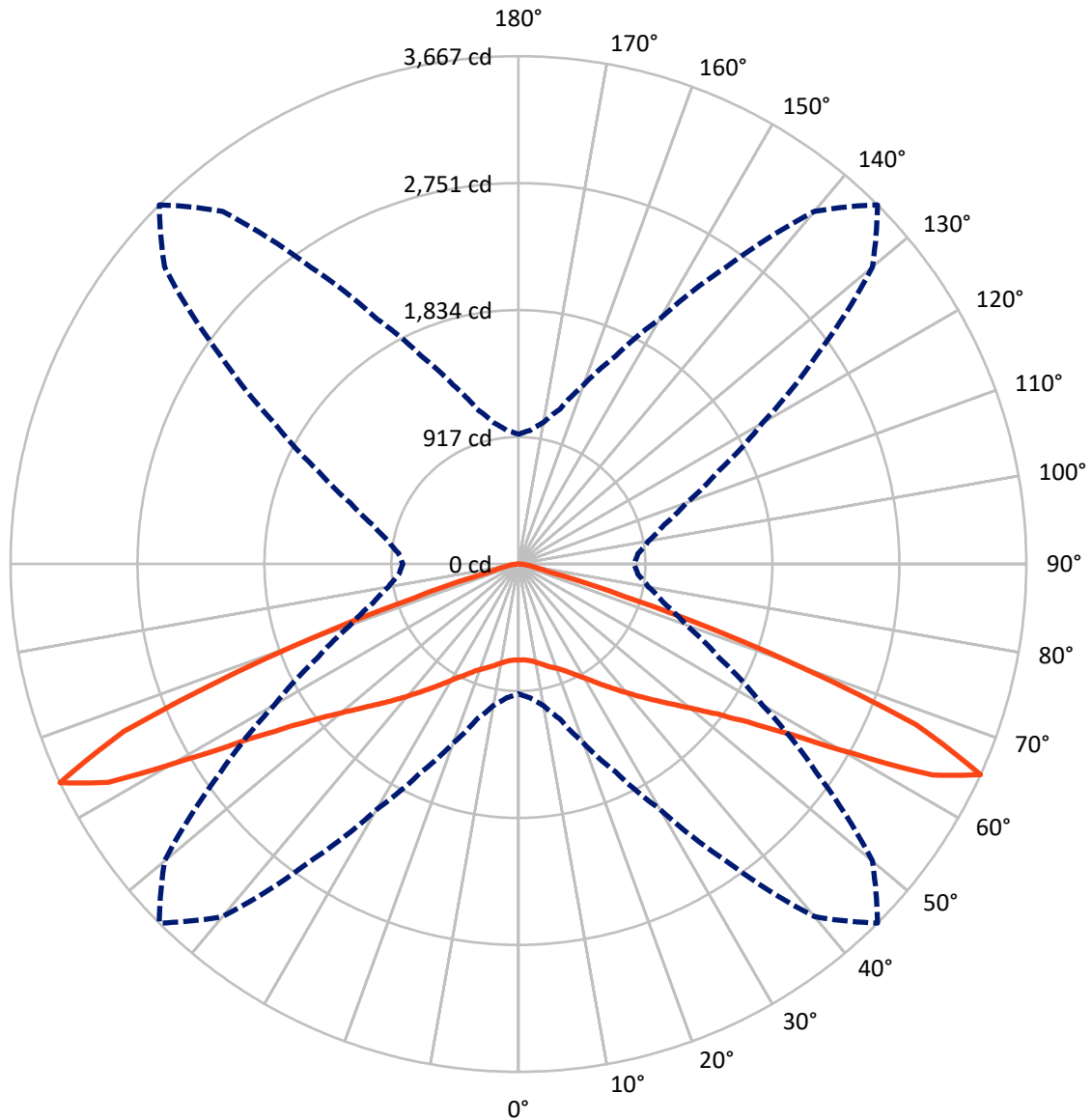
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 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	3063.2	0.0	3063.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3063.2	0.0	3063.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	6126.4	0.0	6126.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	1.1
10°-20°	216.7	3.5
20°-30°	405.2	6.6
30°-40°	685.3	11.2
40°-50°	1120.5	18.3
50°-60°	1781.8	29.1
60°-70°	1610.6	26.3
70°-80°	203.8	3.3
80°-90°	35.1	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°	6126.4	100.0
0°-180°	6126.4	100.0



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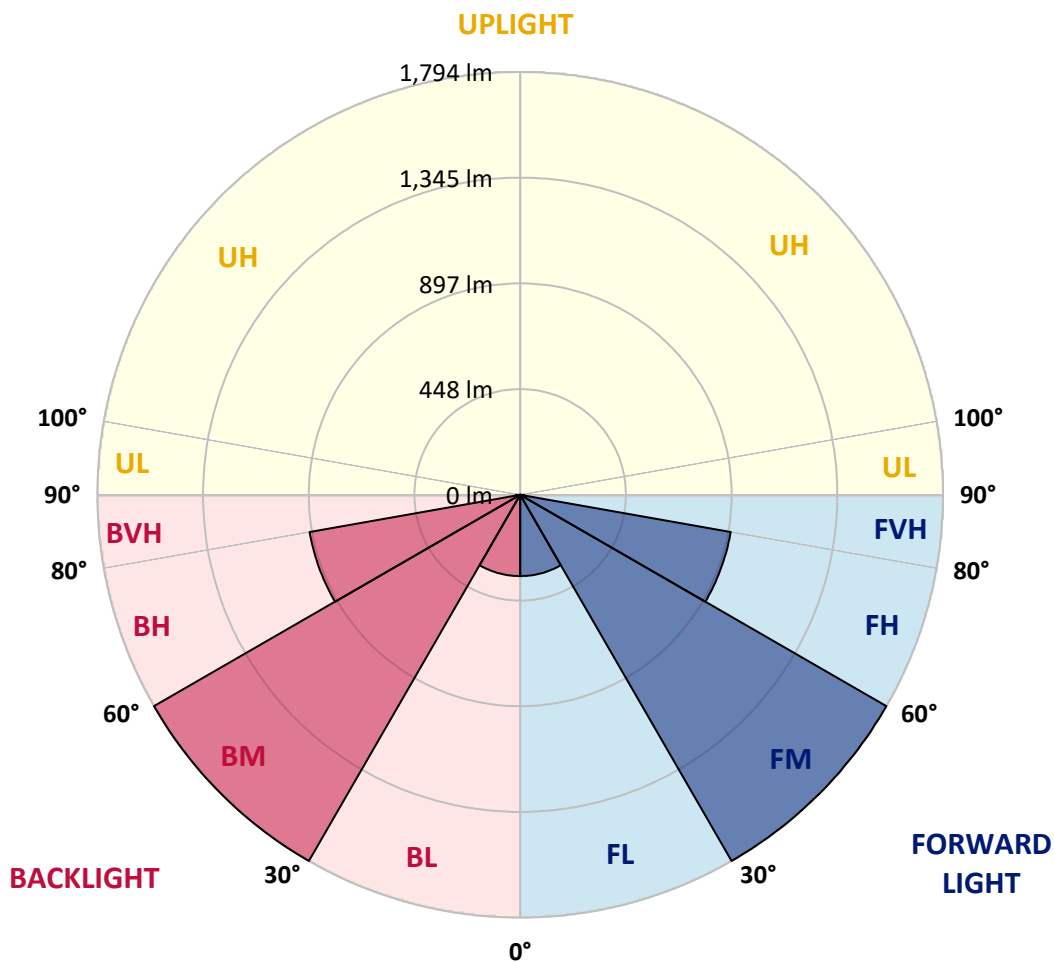
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.7	5.6			
FM	(30°-60°)	1793.8	29.3			
FH	(60°-80°)	907.2	14.8			G1/1800
FVH	(80°-90°)	17.5	0.3			G1/100
BL	(0°-30°)	344.7	5.6	B1/500		
BM	(30°-60°)	1793.8	29.3	B2/2500		
BH	(60°-80°)	907.2	14.8	B2/1000		G1/1800
BVH	(80°-90°)	17.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	693.2	693.2	693.2	693.2	693.2	693.2	693.2	693.2	693.2	693.2	693.2
2.5°	693.9	694.4	694.8	694.4	694.8	694.1	693.5	694.4	693.5	692.7	693.2
5°	699.8	700.0	700.0	699.2	700.0	699.5	698.6	699.8	698.9	698.2	698.6
7.5°	709.8	711.0	710.1	709.3	709.8	709.3	708.8	709.0	708.8	707.9	708.1
10°	723.3	724.3	723.7	723.3	723.9	723.7	723.0	722.7	723.0	722.1	722.1
12.5°	739.7	739.5	739.1	739.5	740.3	740.3	739.9	740.3	740.8	741.1	740.6
15°	755.7	756.4	756.4	756.4	758.1	759.4	760.3	761.0	762.0	762.3	761.3
17.5°	775.9	775.9	775.5	775.9	777.6	779.9	780.6	781.9	783.1	784.0	782.5
20°	798.2	798.9	798.9	799.4	801.6	804.3	804.3	804.8	804.3	804.8	804.0
22.5°	825.5	827.2	827.2	827.5	829.8	833.0	832.1	833.0	831.6	832.6	831.6
25°	861.0	863.6	863.0	863.0	864.8	866.8	867.0	868.8	868.5	870.0	869.1
27.5°	901.2	905.2	906.4	906.1	907.3	909.3	909.9	911.8	910.7	911.8	911.3
30°	949.4	951.1	953.5	954.3	955.7	957.8	957.8	958.0	956.7	958.3	959.2
32.5°	999.4	1002.5	1004.8	1010.0	1012.6	1013.9	1013.6	1014.2	1012.7	1015.2	1016.8
35°	1065.3	1067.6	1071.4	1075.5	1078.9	1078.5	1077.6	1078.0	1078.0	1080.0	1081.6
37.5°	1144.8	1145.3	1150.3	1155.9	1157.7	1155.9	1150.9	1149.7	1147.1	1149.7	1152.5
40°	1228.9	1230.9	1240.6	1244.4	1245.2	1242.0	1234.6	1230.3	1224.6	1227.8	1231.8
42.5°	1316.9	1321.0	1329.9	1336.5	1339.4	1337.3	1327.1	1320.4	1313.0	1314.7	1318.7
45°	1414.6	1419.4	1432.1	1438.4	1443.8	1440.6	1430.6	1420.6	1408.8	1409.7	1416.0
47.5°	1523.5	1528.5	1544.7	1555.4	1558.3	1557.8	1546.5	1532.8	1516.7	1516.1	1521.5
50°	1645.8	1650.6	1671.0	1687.3	1695.7	1694.8	1681.6	1662.1	1642.6	1642.9	1649.7
52.5°	1765.2	1771.2	1792.4	1820.5	1836.9	1848.6	1840.5	1822.2	1798.4	1799.0	1805.4
55°	1877.1	1887.1	1911.5	1949.6	1980.0	2013.0	2022.5	2021.9	2007.6	2011.7	2018.0
57.5°	1931.3	1946.2	1983.7	2044.1	2106.0	2173.2	2230.0	2272.4	2290.5	2317.7	2311.5
60°	1828.6	1852.3	1907.7	1996.5	2118.9	2259.0	2409.1	2555.6	2680.7	2775.1	2720.8
62.5°	1497.1	1528.1	1595.3	1708.9	1894.3	2118.4	2405.7	2752.1	3129.8	3357.5	3194.9
65°	936.8	968.9	1037.3	1158.9	1375.8	1654.4	2044.1	2618.5	3324.0	3667.4	3336.3
67.5°	365.3	382.8	419.8	497.5	660.6	908.4	1299.5	1951.4	2795.2	3096.2	2743.2
70°	183.1	184.8	191.7	206.0	241.0	313.0	476.3	904.7	1603.0	1936.1	1545.4
72.5°	132.3	132.6	136.1	142.3	153.5	169.6	200.5	276.9	521.3	796.7	488.6
75°	101.2	102.4	104.5	107.8	113.9	121.9	133.0	159.4	197.6	229.2	192.9
77.5°	78.1	80.4	81.7	84.9	88.7	94.1	97.2	107.3	124.9	131.4	129.4
80°	59.4	61.4	64.6	67.2	69.7	72.4	71.1	75.7	84.9	90.4	87.6
82.5°	37.9	40.2	49.3	51.7	52.8	54.4	52.6	52.8	56.9	60.2	56.9
85°	24.3	25.8	31.4	34.1	34.5	35.6	34.8	32.7	32.7	29.9	33.5
87.5°	11.1	11.5	14.1	16.7	17.2	15.5	15.2	14.6	11.8	11.1	12.0
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°	693.2	693.2	693.2	693.2	693.2	693.2	693.2	693.2
2.5°	693.0	693.5	693.9	694.6	694.8	694.8	695.2	695.7
5°	698.3	699.2	699.5	700.7	700.9	700.7	701.2	701.5
7.5°	708.1	709.5	710.1	711.3	710.4	711.5	711.8	711.8
10°	722.4	723.9	724.3	725.3	724.8	725.3	725.3	724.8
12.5°	741.5	741.7	740.8	741.7	740.6	741.1	740.3	739.7
15°	762.3	761.6	759.4	759.4	757.8	758.1	757.8	757.5
17.5°	782.8	780.9	779.5	779.0	777.6	777.3	776.5	776.5
20°	805.2	804.3	803.4	802.2	800.7	799.4	799.1	799.6
22.5°	832.1	831.8	831.8	831.2	829.2	827.8	826.9	826.9
25°	868.2	865.6	865.6	865.3	864.4	863.6	862.0	862.8
27.5°	908.9	907.6	908.6	908.4	907.6	907.6	906.4	906.4
30°	959.2	958.6	960.4	958.9	956.1	955.7	954.5	953.1
32.5°	1017.2	1016.5	1019.1	1017.4	1012.7	1010.2	1008.0	1006.8
35°	1081.6	1082.0	1085.2	1084.0	1078.9	1077.1	1073.0	1072.5
37.5°	1152.3	1156.8	1162.3	1163.5	1159.2	1158.0	1153.8	1151.4
40°	1235.2	1241.2	1249.5	1251.6	1246.9	1246.0	1240.1	1237.0
42.5°	1323.6	1334.0	1344.3	1346.0	1341.3	1336.8	1331.1	1328.8
45°	1422.2	1434.7	1448.1	1451.5	1444.7	1439.3	1431.8	1431.8
47.5°	1533.0	1548.5	1563.7	1573.2	1567.0	1561.2	1552.2	1546.5
50°	1663.9	1685.1	1705.0	1714.7	1704.7	1693.8	1678.3	1673.1
52.5°	1828.1	1851.0	1868.1	1862.9	1847.5	1832.4	1815.4	1808.5
55°	2037.4	2045.3	2045.3	2025.7	1994.6	1969.2	1942.4	1933.6
57.5°	2299.4	2269.6	2223.7	2165.5	2092.2	2028.6	1985.6	1965.1
60°	2607.3	2463.8	2301.6	2142.5	2011.7	1903.8	1839.8	1810.4
62.5°	2812.5	2437.1	2112.4	1856.6	1668.4	1538.4	1450.1	1415.6
65°	2628.5	2032.5	1597.5	1291.8	1086.6	954.3	866.8	834.6
67.5°	1925.2	1273.6	850.8	609.7	446.7	356.4	320.4	305.6
70°	864.2	448.4	274.9	214.7	185.1	169.9	163.2	160.9
72.5°	260.5	188.6	159.0	143.5	131.7	124.2	118.8	118.1
75°	157.3	130.9	116.2	107.0	99.5	93.6	90.6	89.8
77.5°	110.0	96.1	89.2	82.6	76.8	72.4	69.7	67.7
80°	77.2	70.5	67.5	63.7	59.9	55.7	51.9	50.2
82.5°	51.7	50.2	50.2	47.9	44.7	40.8	33.2	31.6
85°	33.2	33.0	33.5	32.7	30.5	26.1	21.5	20.4
87.5°	15.5	15.8	17.4	17.2	16.7	13.7	10.9	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)