

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: P526114

Luminaire Tested: **GALN-SA1A-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3763 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

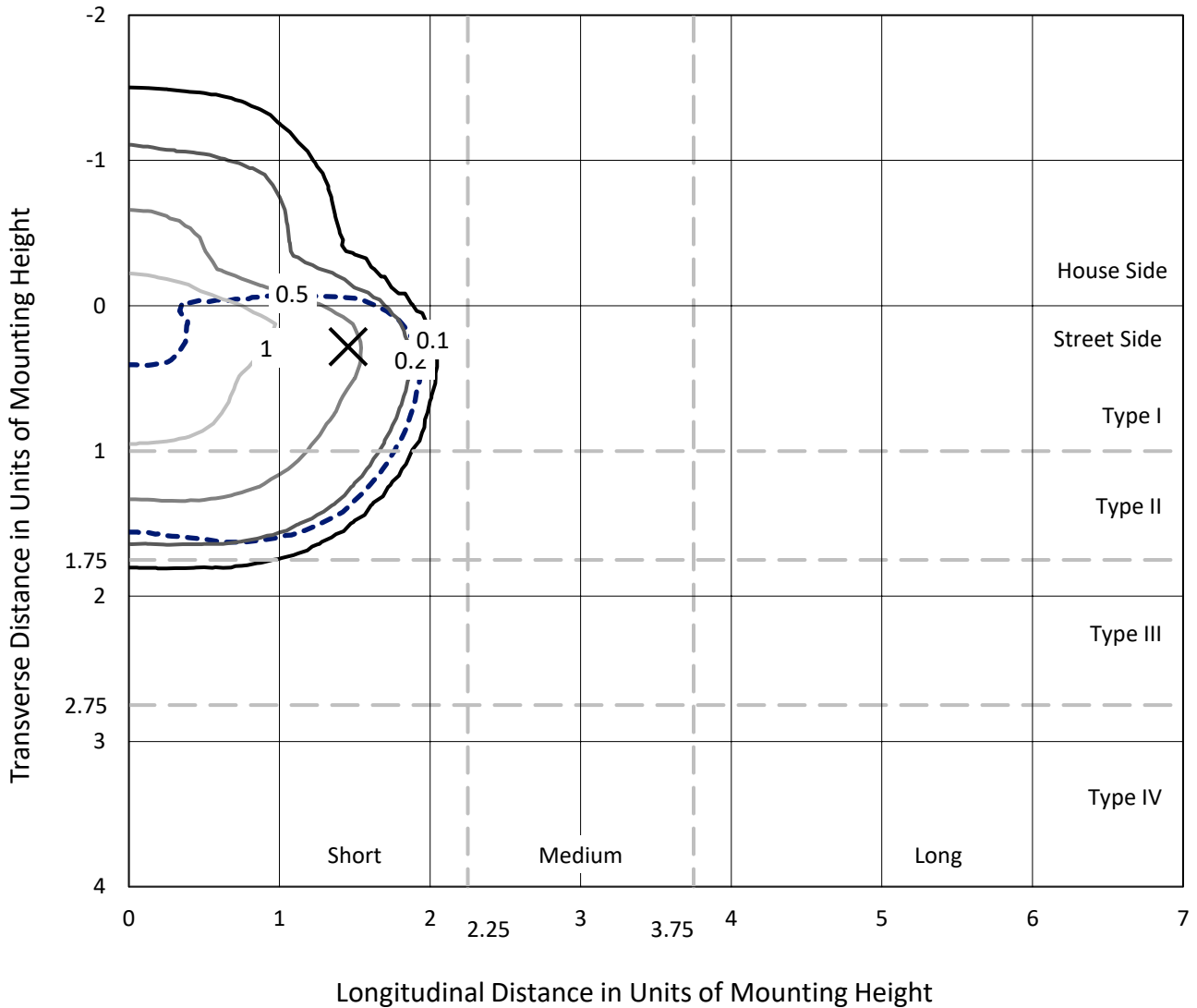
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

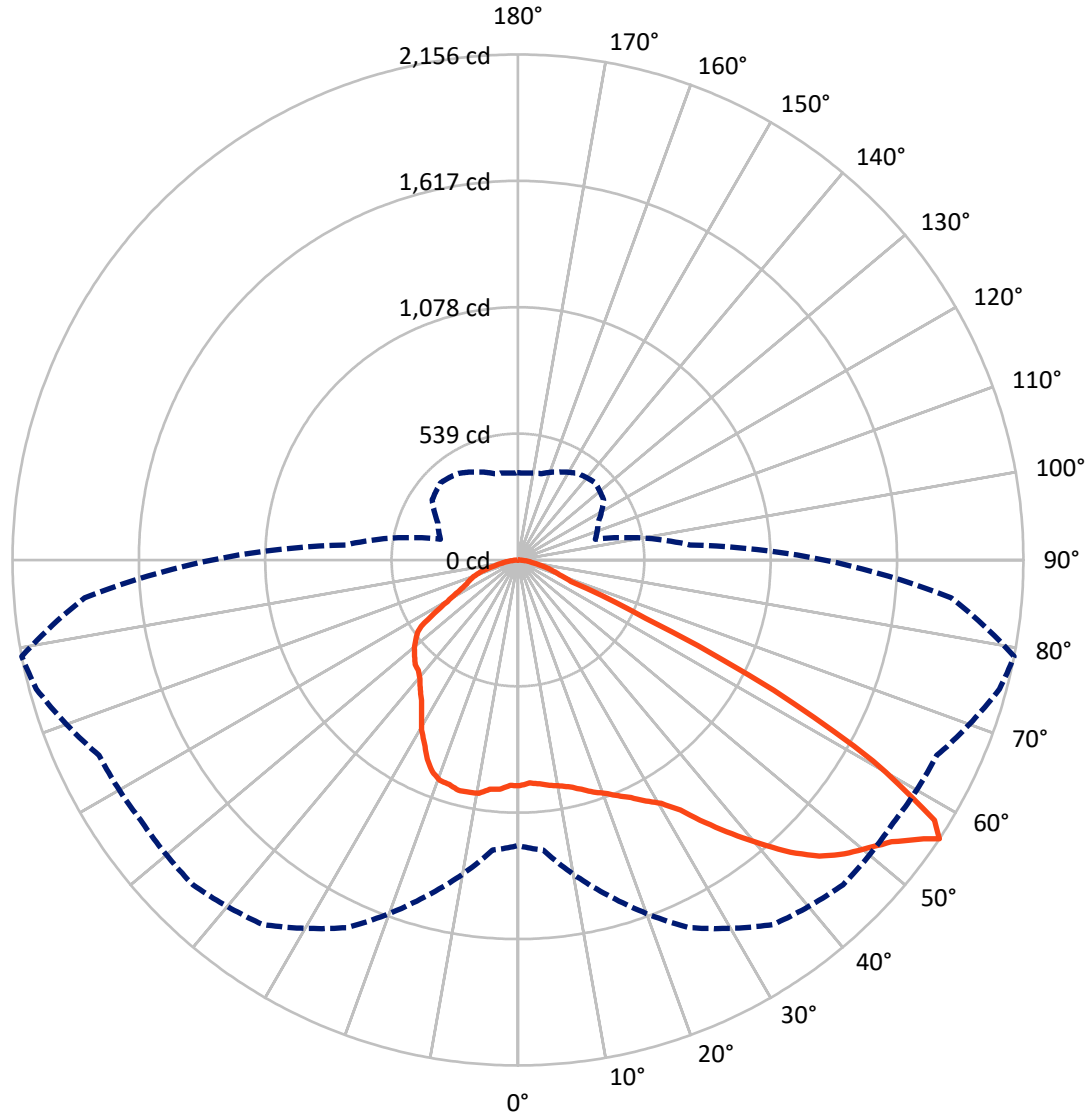
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1111.3	0.0	1111.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	2651.7	0.0	2651.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	3763.0	0.0	3763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	2.3
10°-20°	239.6	6.4
20°-30°	409.8	10.9
30°-40°	628.1	16.7
40°-50°	848.9	22.6
50°-60°	975.0	25.9
60°-70°	444.4	11.8
70°-80°	109.6	2.9
80°-90°	19.9	0.5
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°	3763.0	100.0
0°-180°	3763.0	100.0

Coefficient of Utilization



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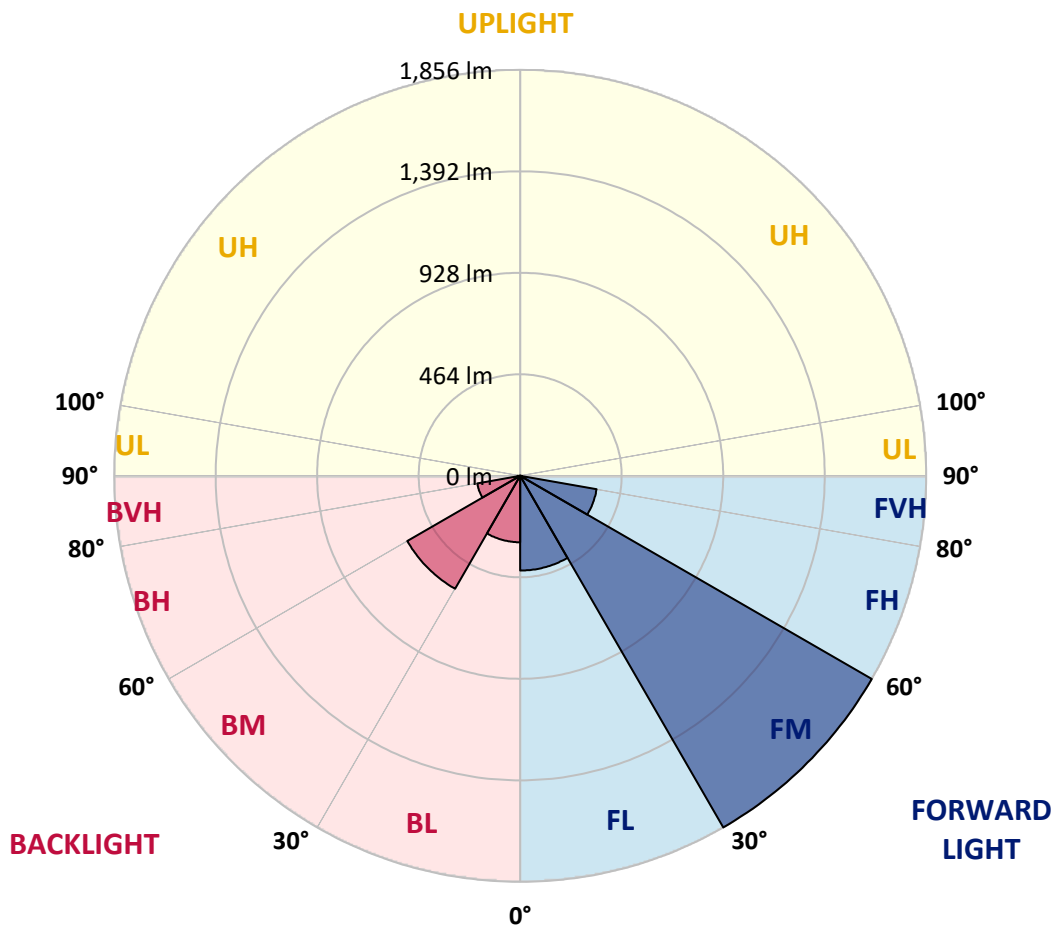
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	433.0	11.5			
FM (30°-60°)	1856.0	49.3			
FH (60°-80°)	354.8	9.4			G0/660
FVH (80°-90°)	8.0	0.2			G0/10
BL (0°-30°)	304.0	8.1	B1/500		
BM (30°-60°)	596.1	15.8	B1/1000		
BH (60°-80°)	199.3	5.3	B1/500		G1/500
BVH (80°-90°)	12.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	962.8	962.8	962.8	962.8	962.8	962.8	962.8	962.8	962.8	962.8	962.8
2.5°	915.9	913.6	919.2	923.4	928.6	935.1	938.4	940.3	956.7	952.5	965.1
5°	896.2	890.1	894.4	897.6	906.6	914.5	923.4	937.5	952.5	959.1	974.5
7.5°	878.9	875.6	874.7	877.0	889.2	899.5	915.0	935.6	960.0	970.8	979.7
10°	850.3	845.6	852.6	868.1	871.4	893.0	910.8	940.3	961.4	980.1	1006.4
12.5°	837.6	833.0	834.4	843.3	866.2	886.9	908.0	941.2	985.8	993.3	1028.4
15°	857.8	853.1	854.5	852.2	874.2	885.0	918.3	960.0	1002.6	1015.3	1052.8
17.5°	903.7	904.2	898.1	893.0	887.8	910.8	933.7	971.2	1009.2	1041.1	1069.2
20°	991.4	975.9	963.7	934.7	926.7	936.6	965.6	1001.7	1035.9	1062.2	1094.1
22.5°	1058.9	1060.3	1043.0	995.1	977.8	982.0	1006.9	1036.4	1073.9	1092.6	1129.2
25°	1156.9	1147.0	1128.3	1090.3	1051.4	1054.7	1073.0	1099.7	1110.0	1123.1	1163.0
27.5°	1246.4	1249.2	1212.2	1176.6	1128.3	1118.9	1151.7	1156.4	1139.1	1163.9	1177.5
30°	1337.3	1335.0	1310.6	1268.9	1221.6	1223.4	1238.0	1215.0	1191.1	1204.7	1214.1
32.5°	1431.5	1404.8	1403.9	1366.4	1330.3	1313.0	1295.1	1306.4	1269.4	1272.2	1263.3
35°	1507.0	1510.8	1489.2	1462.5	1444.7	1414.2	1365.5	1385.6	1378.6	1375.3	1336.9
37.5°	1561.9	1547.3	1558.1	1549.2	1532.3	1494.4	1443.7	1463.0	1466.2	1482.2	1437.6
40°	1606.9	1600.8	1629.4	1634.0	1622.3	1540.3	1449.4	1506.5	1555.8	1590.5	1537.5
42.5°	1628.4	1641.5	1671.5	1707.6	1681.4	1593.7	1478.4	1539.8	1649.5	1704.4	1632.2
45°	1657.5	1640.6	1685.1	1751.2	1751.7	1638.7	1506.5	1584.8	1722.6	1802.3	1696.9
47.5°	1628.0	1636.4	1682.3	1766.2	1787.8	1686.1	1582.5	1648.6	1803.3	1874.0	1756.9
50°	1561.9	1578.7	1662.6	1749.8	1815.0	1736.2	1669.7	1717.5	1877.8	1931.7	1766.7
52.5°	1493.0	1502.3	1633.6	1762.5	1827.2	1800.9	1786.4	1812.6	1968.7	1996.9	1778.9
55°	1305.5	1350.0	1537.5	1756.9	1886.7	1917.6	1906.4	1944.8	2071.9	2100.0	1845.4
56°	1218.7	1242.2	1479.8	1730.6	1898.4	1960.3	1954.7	1972.0	2126.7	2156.2	1855.8
57.5°	1058.4	1060.3	1261.9	1614.4	1854.4	1972.9	1967.3	1980.9	2115.9	2095.8	1765.3
60°	662.3	691.4	858.7	1241.7	1576.9	1830.5	1862.3	1753.1	1784.0	1741.4	1373.4
62.5°	343.1	338.9	450.0	726.1	1046.7	1310.6	1340.1	1335.0	1287.2	1224.8	897.2
65°	171.1	172.0	235.3	359.5	536.2	686.2	768.7	777.6	650.6	598.6	425.6
67.5°	124.2	128.9	169.2	219.8	252.7	282.7	346.4	339.8	257.3	244.7	226.9
70°	96.6	100.8	137.3	167.8	152.3	152.3	165.9	171.6	183.3	188.4	194.5
72.5°	70.3	73.6	105.0	115.8	99.8	107.3	124.2	137.3	149.5	151.4	158.4
75°	48.3	51.1	68.9	63.7	60.0	74.1	90.9	103.1	112.0	116.7	120.9
77.5°	31.4	32.3	39.4	33.3	38.4	47.8	59.1	69.4	78.3	82.0	83.0
80°	14.1	15.5	16.9	21.1	26.7	34.2	42.2	50.6	56.2	57.7	60.5
82.5°	8.0	8.0	10.3	15.0	19.7	24.8	30.5	36.6	43.1	44.5	44.1
85°	4.2	4.2	6.1	8.9	12.2	14.5	14.1	14.5	15.5	17.8	17.3
87.5°	1.4	1.4	1.9	1.9	2.3	2.8	2.3	3.3	4.2	4.2	4.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	962.8	962.8	962.8	962.8	962.8	962.8	962.8	962.8	962.8	962.8	962.8
2.5°	961.4	965.6	960.0	972.2	972.2	969.8	958.1	961.9	964.7	964.7	967.0
5°	979.7	978.3	982.0	967.5	958.6	955.3	936.1	926.7	918.7	918.3	911.2
7.5°	990.0	986.2	984.8	974.1	934.7	910.8	869.5	845.6	840.5	822.2	829.2
10°	1006.4	1013.4	1006.4	947.8	893.0	838.1	797.8	760.8	746.2	734.5	727.5
12.5°	1040.1	1036.9	996.1	916.9	840.0	774.8	714.8	675.9	661.4	651.1	650.1
15°	1068.7	1052.3	990.0	868.1	757.5	688.1	638.9	611.2	604.7	605.6	609.8
17.5°	1078.6	1067.3	958.1	817.5	696.1	614.5	591.6	587.3	593.4	600.5	602.3
20°	1094.1	1076.2	945.0	748.6	620.1	568.6	567.2	582.2	593.4	603.7	605.2
22.5°	1126.4	1081.4	902.3	683.4	568.1	555.0	568.6	581.2	598.6	607.0	599.5
25°	1135.8	1070.1	842.3	605.2	535.3	546.6	561.1	578.4	590.6	595.3	598.6
27.5°	1143.7	1052.8	761.2	553.1	525.0	546.1	561.1	575.6	582.2	586.4	590.2
30°	1166.2	1047.6	690.9	518.4	518.4	536.7	555.9	559.7	568.6	573.7	580.3
32.5°	1177.5	1012.0	618.7	496.4	511.9	541.4	542.8	549.8	550.3	554.5	547.5
35°	1207.0	986.7	551.7	480.5	514.7	536.7	543.7	539.5	516.6	505.3	507.7
37.5°	1228.6	974.1	503.4	478.6	515.2	541.9	545.6	513.7	489.8	471.1	475.8
40°	1286.7	942.6	466.9	475.3	519.4	547.5	537.2	502.5	459.4	440.2	436.9
42.5°	1331.2	920.1	443.9	471.6	522.7	555.5	533.0	480.0	435.9	418.1	422.8
45°	1382.8	915.0	431.7	472.5	528.3	559.7	527.8	462.7	415.8	408.7	407.3
47.5°	1401.1	878.0	418.6	464.5	526.9	558.3	510.5	449.5	408.3	409.2	413.0
50°	1370.6	840.0	408.7	448.1	517.5	545.6	483.3	432.2	404.1	415.8	422.3
52.5°	1331.7	801.1	388.6	426.1	498.3	525.9	470.6	431.2	399.8	396.1	397.5
55°	1343.4	769.2	360.5	396.1	467.3	489.4	456.6	422.3	389.5	375.5	380.2
56°	1305.5	736.4	342.2	377.3	446.2	465.9	449.5	414.4	381.1	371.7	371.7
57.5°	1198.1	626.2	318.3	347.3	401.7	425.2	435.9	409.7	371.7	355.3	355.8
60°	883.6	445.3	285.5	306.1	332.8	351.6	401.7	396.6	348.3	337.0	332.8
62.5°	544.7	325.3	262.0	270.0	283.6	299.1	350.6	359.1	323.4	311.2	308.4
65°	305.2	248.9	244.2	247.5	254.1	262.0	291.1	309.8	285.5	266.7	265.8
67.5°	223.1	222.7	226.4	229.2	232.0	232.0	239.1	246.6	243.3	228.3	226.9
70°	198.3	199.7	202.5	203.0	203.9	200.6	195.0	192.7	196.4	187.0	185.2
72.5°	163.6	168.3	171.6	172.0	166.9	162.7	155.2	147.2	144.4	142.5	142.0
75°	125.6	128.9	130.3	129.8	128.0	121.9	113.0	105.0	99.8	94.2	97.0
77.5°	84.8	89.5	91.9	91.9	89.1	79.7	75.5	69.4	64.2	58.1	59.1
80°	59.5	62.8	66.6	66.1	61.4	56.7	50.6	45.0	40.8	36.1	35.6
82.5°	44.5	46.4	48.3	47.3	44.1	39.4	35.2	30.0	25.3	22.0	22.0
85°	15.9	17.3	21.1	22.0	23.9	23.9	20.2	16.9	13.6	11.2	11.2
87.5°	4.7	4.7	5.2	5.2	4.7	5.2	4.2	4.7	5.2	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)