

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: P526478

Luminaire Tested: **GALN-SA1B-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526478
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-SA1B-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA 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: 3994 lumens
Efficiency: N/A
Efficacy: 90.8 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

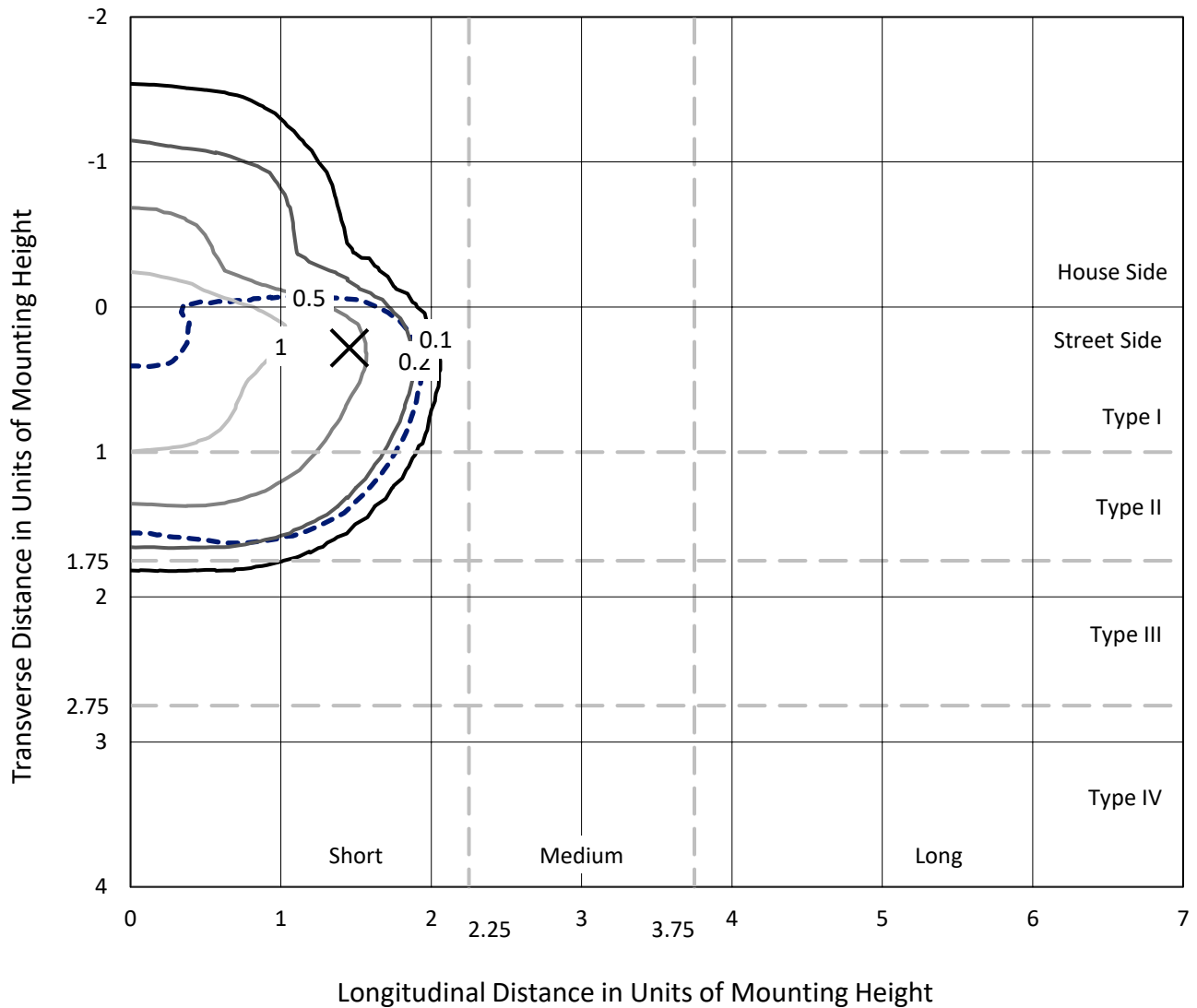
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

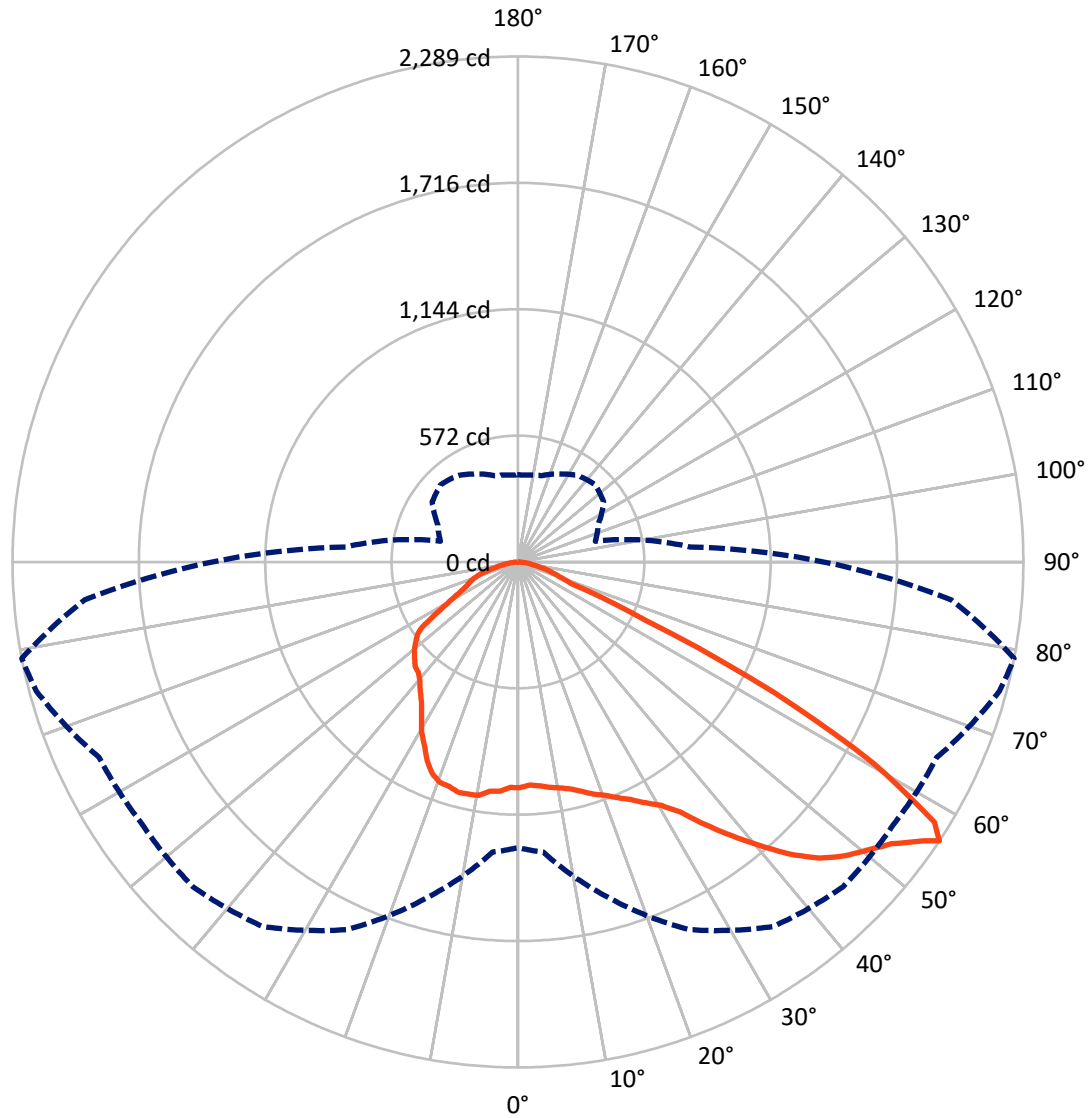
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	1179.5	0.0	1179.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	2814.5	0.0	2814.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	3994.0	0.0	3994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	2.3
10°-20°	254.3	6.4
20°-30°	435.0	10.9
30°-40°	666.7	16.7
40°-50°	901.0	22.6
50°-60°	1034.9	25.9
60°-70°	471.7	11.8
70°-80°	116.3	2.9
80°-90°	21.1	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°	3994.0	100.0
0°-180°	3994.0	100.0

Coefficient of Utilization

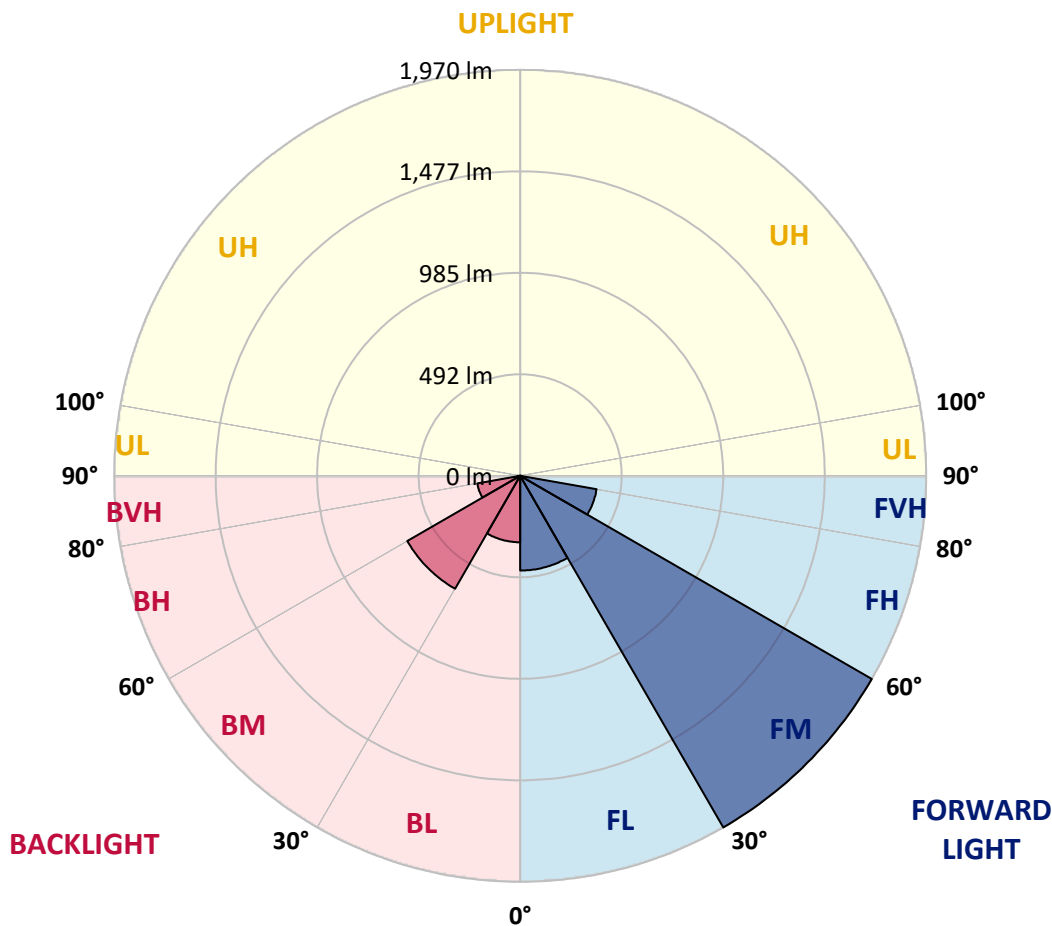


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.5	11.5			
FM (30°-60°)	1970.0	49.3			
FH (60°-80°)	376.5	9.4			G0/660
FVH (80°-90°)	8.4	0.2			G0/10
BL (0°-30°)	322.6	8.1	B1/500		
BM (30°-60°)	632.7	15.8	B1/1000		
BH (60°-80°)	211.5	5.3	B1/500		G1/500
BVH (80°-90°)	12.7	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°	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9
2.5°	972.2	969.7	975.6	980.1	985.6	992.6	996.0	998.0	1015.4	1011.0	1024.4
5°	951.3	944.8	949.3	952.8	962.2	970.7	980.1	995.0	1011.0	1017.9	1034.3
7.5°	932.9	929.4	928.4	930.9	943.8	954.7	971.2	993.1	1018.9	1030.4	1039.8
10°	902.5	897.5	905.0	921.4	924.9	947.8	966.7	998.0	1020.4	1040.3	1068.2
12.5°	889.1	884.1	885.6	895.0	919.4	941.3	963.7	999.0	1046.3	1054.2	1091.6
15°	910.5	905.5	907.0	904.5	927.9	939.3	974.6	1018.9	1064.2	1077.6	1117.4
17.5°	959.2	959.7	953.2	947.8	942.3	966.7	991.1	1030.9	1071.2	1105.0	1134.8
20°	1052.3	1035.8	1022.9	992.1	983.6	994.0	1024.9	1063.2	1099.5	1127.4	1161.2
22.5°	1123.9	1125.4	1107.0	1056.2	1037.8	1042.3	1068.7	1100.0	1139.8	1159.7	1198.5
25°	1227.9	1217.4	1197.5	1157.2	1115.9	1119.4	1138.8	1167.2	1178.1	1192.1	1234.3
27.5°	1322.9	1325.9	1286.6	1248.8	1197.5	1187.6	1222.4	1227.4	1209.0	1235.3	1249.8
30°	1419.4	1416.9	1391.1	1346.8	1296.5	1298.5	1314.0	1289.6	1264.2	1278.6	1288.6
32.5°	1519.4	1491.1	1490.1	1450.3	1412.0	1393.6	1374.6	1386.6	1347.3	1350.3	1340.8
35°	1599.5	1603.5	1580.6	1552.3	1533.4	1501.0	1449.3	1470.7	1463.2	1459.7	1418.9
37.5°	1657.7	1642.3	1653.8	1644.3	1626.4	1586.1	1532.4	1552.8	1556.2	1573.2	1525.9
40°	1705.5	1699.0	1729.4	1734.4	1721.9	1634.9	1538.3	1599.0	1651.3	1688.1	1631.9
42.5°	1728.4	1742.3	1774.2	1812.5	1784.6	1691.6	1569.2	1634.4	1750.8	1809.0	1732.4
45°	1759.2	1741.3	1788.6	1858.7	1859.2	1739.3	1599.0	1682.1	1828.4	1913.0	1801.0
47.5°	1727.9	1736.8	1785.6	1874.7	1897.5	1789.6	1679.6	1749.8	1914.0	1989.1	1864.7
50°	1657.7	1675.6	1764.7	1857.2	1926.4	1842.8	1772.2	1822.9	1993.1	2050.3	1875.2
52.5°	1584.6	1594.6	1733.9	1870.7	1939.3	1911.5	1896.0	1923.9	2089.6	2119.4	1888.1
55°	1385.6	1432.9	1631.9	1864.7	2002.5	2035.4	2023.4	2064.2	2199.0	2228.9	1958.7
56°	1293.6	1318.4	1570.7	1836.8	2015.0	2080.6	2074.7	2093.1	2257.2	2288.6	1969.7
57.5°	1123.4	1125.4	1339.3	1713.5	1968.2	2094.1	2088.1	2102.5	2245.8	2224.4	1873.7
60°	703.0	733.8	911.5	1317.9	1673.7	1942.8	1976.6	1860.7	1893.6	1848.3	1457.7
62.5°	364.2	359.7	477.6	770.7	1111.0	1391.1	1422.4	1416.9	1366.2	1300.0	952.3
65°	181.6	182.6	249.8	381.6	569.2	728.4	815.9	825.4	690.6	635.3	451.7
67.5°	131.8	136.8	179.6	233.3	268.2	300.0	367.7	360.7	273.1	259.7	240.8
70°	102.5	107.0	145.8	178.1	161.7	161.7	176.1	182.1	194.5	200.0	206.5
72.5°	74.6	78.1	111.4	122.9	106.0	113.9	131.8	145.8	158.7	160.7	168.2
75°	51.2	54.2	73.1	67.7	63.7	78.6	96.5	109.5	118.9	123.9	128.4
77.5°	33.3	34.3	41.8	35.3	40.8	50.7	62.7	73.6	83.1	87.1	88.1
80°	14.9	16.4	17.9	22.4	28.4	36.3	44.8	53.7	59.7	61.2	64.2
82.5°	8.5	8.5	10.9	15.9	20.9	26.4	32.3	38.8	45.8	47.3	46.8
85°	4.5	4.5	6.5	9.5	12.9	15.4	14.9	15.4	16.4	18.9	18.4
87.5°	1.5	1.5	2.0	2.0	2.5	3.0	2.5	3.5	4.5	4.5	4.5
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°	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9
2.5°	1020.4	1024.9	1018.9	1031.9	1031.9	1029.4	1016.9	1020.9	1023.9	1023.9	1026.4
5°	1039.8	1038.3	1042.3	1026.9	1017.4	1013.9	993.5	983.6	975.1	974.6	967.2
7.5°	1050.8	1046.8	1045.3	1033.8	992.1	966.7	922.9	897.5	892.1	872.7	880.1
10°	1068.2	1075.6	1068.2	1006.0	947.8	889.6	846.8	807.5	792.1	779.6	772.2
12.5°	1104.0	1100.5	1057.2	973.1	891.6	822.4	758.7	717.4	702.0	691.1	690.1
15°	1134.3	1116.9	1050.8	921.4	804.0	730.4	678.1	648.8	641.8	642.8	647.3
17.5°	1144.8	1132.9	1016.9	867.7	738.8	652.2	627.9	623.4	629.9	637.3	639.3
20°	1161.2	1142.3	1003.0	794.5	658.2	603.5	602.0	617.9	629.9	640.8	642.3
22.5°	1195.5	1147.8	957.7	725.4	603.0	589.1	603.5	616.9	635.3	644.3	636.3
25°	1205.5	1135.8	894.0	642.3	568.2	580.1	595.5	613.9	626.9	631.9	635.3
27.5°	1213.9	1117.4	808.0	587.1	557.2	579.6	595.5	611.0	617.9	622.4	626.4
30°	1237.8	1112.0	733.3	550.3	550.3	569.7	590.1	594.0	603.5	609.0	615.9
32.5°	1249.8	1074.1	656.7	526.9	543.3	574.6	576.1	583.6	584.1	588.6	581.1
35°	1281.1	1047.3	585.6	510.0	546.3	569.7	577.1	572.6	548.3	536.3	538.8
37.5°	1304.0	1033.8	534.3	508.0	546.8	575.1	579.1	545.3	519.9	500.0	505.0
40°	1365.7	1000.5	495.5	504.5	551.3	581.1	570.2	533.3	487.6	467.2	463.7
42.5°	1413.0	976.6	471.2	500.5	554.7	589.6	565.7	509.5	462.7	443.8	448.8
45°	1467.7	971.2	458.2	501.5	560.7	594.0	560.2	491.1	441.3	433.8	432.3
47.5°	1487.1	931.9	444.3	493.0	559.2	592.5	541.8	477.1	433.3	434.3	438.3
50°	1454.7	891.6	433.8	475.6	549.3	579.1	512.9	458.7	428.9	441.3	448.3
52.5°	1413.5	850.3	412.4	452.2	528.9	558.2	499.5	457.7	424.4	420.4	421.9
55°	1425.9	816.4	382.6	420.4	496.0	519.4	484.6	448.3	413.4	398.5	403.5
56°	1385.6	781.6	363.2	400.5	473.6	494.5	477.1	439.8	404.5	394.5	394.5
57.5°	1271.7	664.7	337.8	368.7	426.4	451.3	462.7	434.8	394.5	377.1	377.6
60°	937.8	472.6	303.0	324.9	353.2	373.1	426.4	420.9	369.7	357.7	353.2
62.5°	578.1	345.3	278.1	286.6	301.0	317.4	372.1	381.1	343.3	330.4	327.4
65°	323.9	264.2	259.2	262.7	269.7	278.1	309.0	328.9	303.0	283.1	282.1
67.5°	236.8	236.3	240.3	243.3	246.3	246.3	253.7	261.7	258.2	242.3	240.8
70°	210.5	211.9	214.9	215.4	216.4	212.9	207.0	204.5	208.5	198.5	196.5
72.5°	173.6	178.6	182.1	182.6	177.1	172.6	164.7	156.2	153.2	151.2	150.7
75°	133.3	136.8	138.3	137.8	135.8	129.4	119.9	111.4	106.0	100.0	103.0
77.5°	90.1	95.0	97.5	97.5	94.5	84.6	80.1	73.6	68.2	61.7	62.7
80°	63.2	66.7	70.6	70.2	65.2	60.2	53.7	47.8	43.3	38.3	37.8
82.5°	47.3	49.3	51.2	50.2	46.8	41.8	37.3	31.8	26.9	23.4	23.4
85°	16.9	18.4	22.4	23.4	25.4	25.4	21.4	17.9	14.4	11.9	11.9
87.5°	5.0	5.0	5.5	5.5	5.0	5.5	4.5	5.0	5.5	3.5	3.5
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)