

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: P526518

Luminaire Tested: **GALN-SA1C-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5033 lumens
Efficiency: N/A
Efficacy: 88.3 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

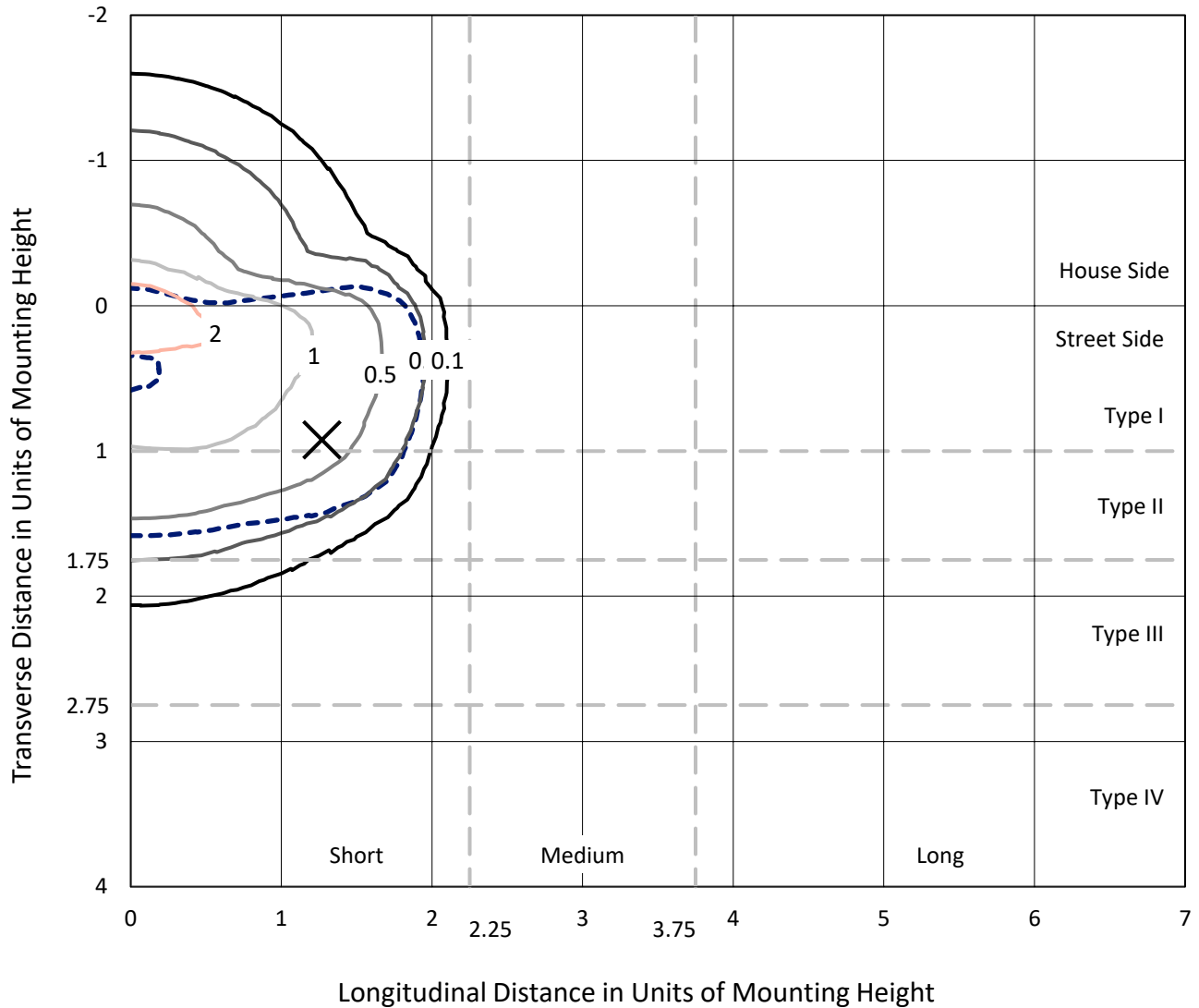
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

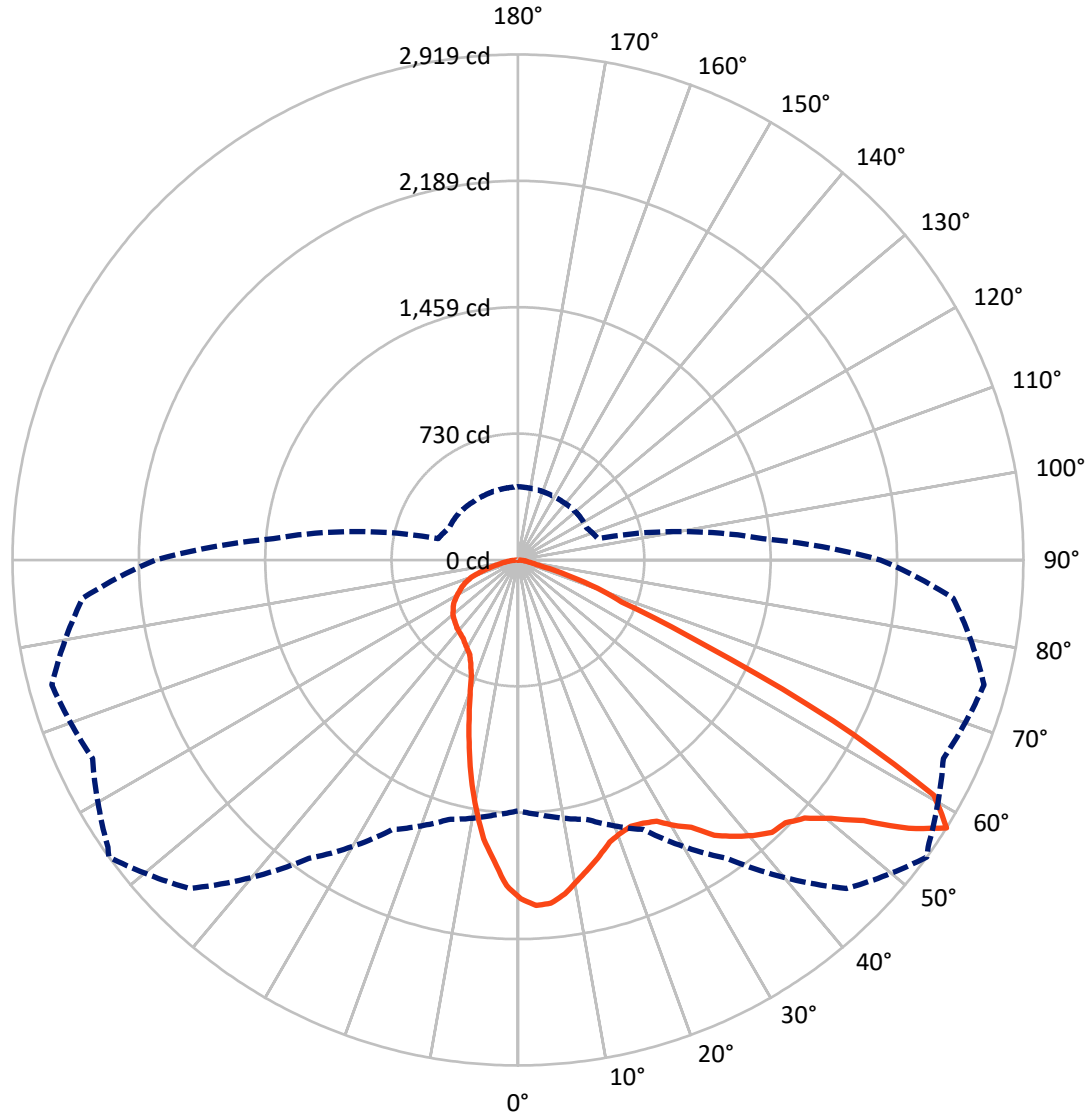
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1392.4	0.0	1392.4
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	3640.6	0.0	3640.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	5033.0	0.0	5033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	3.4
10°-20°	390.6	7.8
20°-30°	548.8	10.9
30°-40°	767.3	15.2
40°-50°	1038.7	20.6
50°-60°	1265.2	25.1
60°-70°	659.0	13.1
70°-80°	168.9	3.4
80°-90°	25.8	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°	5033.0	100.0
0°-180°	5033.0	100.0

Coefficient of Utilization



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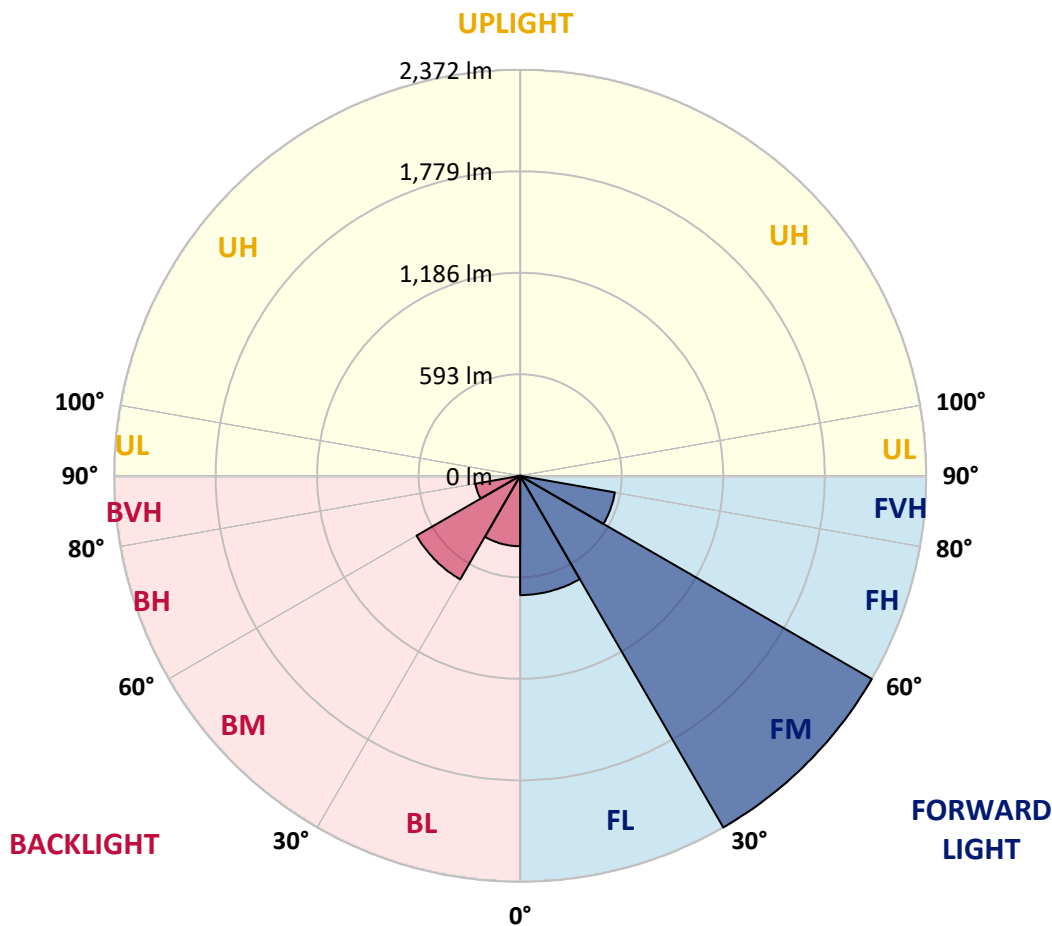
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	696.6	13.8			
FM (30°-60°)	2372.4	47.1			
FH (60°-80°)	561.8	11.2			G0/660
FVH (80°-90°)	9.7	0.2			G0/10
BL (0°-30°)	411.5	8.2	B1/500		
BM (30°-60°)	698.8	13.9	B1/1000		
BH (60°-80°)	266.0	5.3	B1/500		G1/500
BVH (80°-90°)	16.0	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°	54°	55°	65°	75°	85°
0°	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3
2.5°	2011.9	2004.1	2005.4	2015.8	2002.8	1997.7	1997.7	1972.4	1974.4	1956.9	1952.4
5°	1965.3	1947.2	1959.5	1975.0	1977.6	1982.8	1991.2	1984.7	1966.6	1947.9	1917.5
7.5°	1843.7	1859.9	1864.4	1875.4	1898.7	1920.0	1946.6	1928.5	1927.8	1909.0	1890.9
10°	1737.0	1727.3	1751.8	1768.0	1806.8	1842.4	1883.2	1881.2	1890.9	1869.6	1838.5
12.5°	1630.9	1623.1	1634.8	1671.6	1726.0	1777.7	1826.2	1808.1	1859.9	1856.0	1789.4
15°	1518.3	1524.1	1541.0	1575.2	1646.4	1708.5	1770.0	1770.6	1816.5	1832.1	1742.8
17.5°	1439.4	1432.9	1454.3	1505.4	1568.8	1643.2	1713.0	1727.3	1797.8	1806.8	1728.6
20°	1380.5	1389.6	1417.4	1443.3	1516.4	1606.3	1685.2	1690.4	1793.9	1818.5	1705.9
22.5°	1366.3	1361.1	1370.2	1412.2	1472.4	1570.1	1670.3	1689.7	1793.2	1814.6	1663.2
25°	1351.4	1368.2	1367.6	1409.6	1453.6	1541.0	1682.6	1704.0	1827.5	1834.6	1669.0
27.5°	1385.0	1383.1	1401.2	1404.5	1458.8	1548.7	1708.5	1724.7	1884.5	1878.6	1673.6
30°	1418.7	1409.0	1420.0	1458.1	1483.4	1593.4	1779.7	1778.4	1958.2	1954.3	1687.8
32.5°	1460.1	1455.6	1462.7	1496.3	1539.0	1652.9	1839.8	1878.0	2033.3	2057.8	1737.0
35°	1467.8	1486.6	1503.4	1548.7	1609.5	1749.3	1953.0	1984.7	2119.9	2196.9	1830.8
37.5°	1517.0	1524.1	1563.6	1643.8	1699.4	1878.0	2024.8	2044.9	2198.9	2286.2	1929.7
40°	1569.4	1577.8	1637.3	1721.4	1797.8	1962.1	2092.1	2098.6	2224.1	2354.8	1994.4
42.5°	1640.6	1648.3	1707.2	1812.7	1914.9	2033.9	2151.6	2158.8	2222.2	2433.7	2097.3
45°	1714.3	1733.1	1802.3	1922.0	2013.8	2118.0	2165.2	2194.3	2240.3	2504.2	2180.7
47.5°	1817.8	1835.3	1892.2	2009.3	2116.7	2191.7	2228.0	2256.4	2283.6	2565.7	2234.4
50°	1927.8	1931.0	2000.3	2106.4	2185.3	2275.2	2345.1	2354.8	2340.5	2636.8	2325.7
52.5°	2008.7	2019.0	2072.7	2176.2	2294.0	2404.6	2500.3	2510.7	2482.9	2663.3	2356.7
55°	1874.8	1868.9	1956.3	2094.1	2367.1	2597.4	2736.4	2744.2	2586.4	2745.5	2458.3
57.5°	1449.1	1476.9	1551.3	1717.6	2103.1	2682.8	2918.9	2891.1	2710.6	2786.9	2523.0
60°	1053.2	1046.7	1096.5	1207.8	1584.9	2312.1	2759.7	2788.2	2609.0	2512.0	2080.5
62.5°	857.8	848.8	852.6	856.5	1022.8	1534.5	2043.0	2042.3	2009.3	1805.5	1403.2
65°	685.7	707.1	709.0	738.1	759.5	916.7	1183.9	1247.3	1086.2	890.8	646.3
67.5°	516.9	509.1	535.0	638.5	678.6	661.8	646.3	653.4	464.5	335.1	315.7
70°	304.7	301.5	332.5	445.1	558.9	525.9	487.1	487.8	318.9	234.2	260.7
72.5°	166.9	166.3	172.7	225.8	317.6	329.9	292.4	301.5	190.2	189.5	203.8
75°	93.2	91.2	89.3	99.6	114.5	121.0	123.6	124.9	130.7	146.2	152.0
77.5°	34.3	33.0	33.0	38.2	48.5	60.8	77.0	78.3	92.5	106.1	111.9
80°	11.6	12.9	17.5	23.9	32.3	43.3	52.4	53.7	65.3	74.4	76.3
82.5°	7.1	7.8	11.6	16.8	23.3	30.4	38.8	39.5	48.5	54.3	56.9
85°	3.2	3.9	6.5	10.4	14.9	20.1	20.7	20.7	20.1	20.7	19.4
87.5°	0.0	0.0	1.3	1.3	1.3	1.9	2.6	1.9	3.2	3.9	3.9
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°	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3	1956.3
2.5°	1938.8	1931.7	1909.7	1890.3	1884.5	1858.6	1820.4	1824.9	1797.1	1810.1	1796.5
5°	1912.3	1888.3	1832.1	1808.1	1745.4	1716.9	1697.5	1649.0	1626.3	1621.8	1602.4
7.5°	1844.4	1829.5	1759.0	1694.3	1627.6	1570.7	1497.6	1447.8	1412.2	1402.5	1374.0
10°	1790.7	1757.7	1660.0	1561.7	1466.6	1367.6	1272.5	1198.1	1161.9	1119.8	1105.6
12.5°	1737.6	1687.8	1555.8	1429.7	1306.8	1181.9	1066.8	976.2	897.3	878.5	872.0
15°	1704.6	1617.9	1462.7	1310.6	1136.0	973.0	857.8	798.3	749.8	729.7	744.0
17.5°	1661.3	1560.4	1373.4	1170.9	978.8	828.7	732.3	695.4	678.0	679.9	674.1
20°	1606.9	1506.0	1256.3	1044.1	838.4	718.7	663.7	650.1	652.7	657.3	655.3
22.5°	1568.1	1440.0	1171.6	914.7	724.5	657.9	635.3	625.6	634.0	637.9	634.6
25°	1538.4	1383.8	1068.7	800.2	658.6	623.6	613.3	612.6	625.6	630.7	627.5
27.5°	1511.2	1331.4	966.5	712.9	614.6	597.1	593.9	601.6	610.0	615.2	619.7
30°	1495.0	1291.2	870.7	639.8	592.6	584.2	578.3	585.5	590.0	595.2	592.6
32.5°	1510.5	1262.8	778.2	598.4	574.5	566.1	573.8	569.3	577.0	581.6	574.5
35°	1559.1	1237.5	712.3	576.4	553.8	557.0	558.3	556.3	559.6	555.7	564.1
37.5°	1606.9	1228.5	651.4	557.6	544.1	544.1	542.8	538.9	545.3	544.1	547.9
40°	1667.7	1234.3	599.7	537.6	535.0	533.7	528.5	527.9	525.3	525.9	527.2
42.5°	1720.8	1247.3	569.9	524.6	526.6	529.2	519.5	511.7	514.9	508.5	508.5
45°	1777.1	1258.9	543.4	515.6	513.7	513.0	505.2	500.7	498.1	498.8	504.6
47.5°	1865.7	1275.7	523.4	503.3	504.6	494.9	492.9	487.1	489.7	493.6	494.2
50°	1928.5	1311.3	507.8	489.1	493.6	487.1	475.5	472.9	472.9	479.4	478.1
52.5°	1972.4	1361.1	492.9	473.5	475.5	470.3	466.4	460.6	456.7	465.8	470.3
55°	2107.0	1443.9	489.1	460.6	460.0	454.8	447.7	441.8	439.9	441.2	450.3
57.5°	2094.1	1418.0	476.8	438.0	436.7	429.6	422.4	420.5	419.8	421.1	423.7
60°	1700.1	1047.4	425.7	412.1	410.1	408.8	401.7	394.0	390.1	394.0	390.7
62.5°	1125.0	701.3	375.2	381.0	382.3	379.1	367.4	359.7	361.0	365.5	358.4
65°	552.5	412.1	340.3	355.8	357.1	348.0	337.0	328.0	323.5	327.3	324.1
67.5°	315.7	315.0	311.8	328.0	327.3	318.3	300.8	293.1	285.3	286.6	284.6
70°	267.8	273.0	279.5	289.2	288.5	278.2	257.5	251.6	240.7	239.4	236.1
72.5°	210.9	220.0	234.2	241.3	235.5	222.5	209.0	199.2	189.5	183.7	185.7
75°	156.6	169.5	177.3	181.8	172.7	165.6	154.6	143.0	131.3	126.1	124.2
77.5°	113.9	117.7	124.9	128.1	122.3	115.2	108.7	97.0	86.0	78.9	77.0
80°	79.6	82.2	87.3	87.3	87.3	84.1	75.7	64.0	56.9	50.5	49.2
82.5°	55.6	58.2	63.4	60.8	60.2	56.3	51.1	42.0	34.3	29.8	28.5
85°	19.4	21.3	25.9	31.1	33.0	32.3	29.1	23.3	18.1	14.9	13.6
87.5°	4.5	4.5	5.2	4.5	4.5	5.2	4.5	4.5	4.5	3.2	2.6
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)