

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: P526868

Luminaire Tested: **GALN-SA1D-750-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526868
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-SA1D-750-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA 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: 6833 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

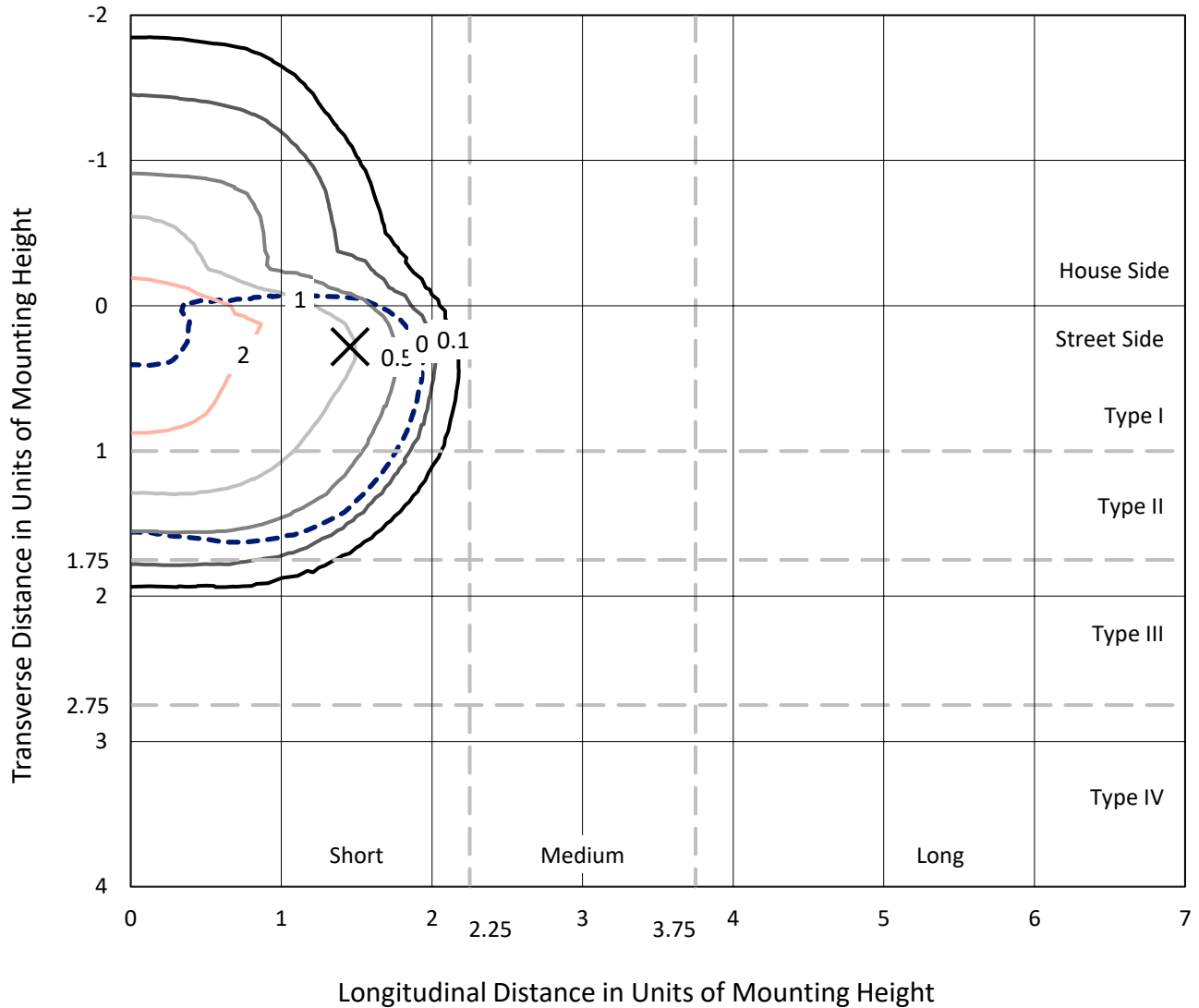
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

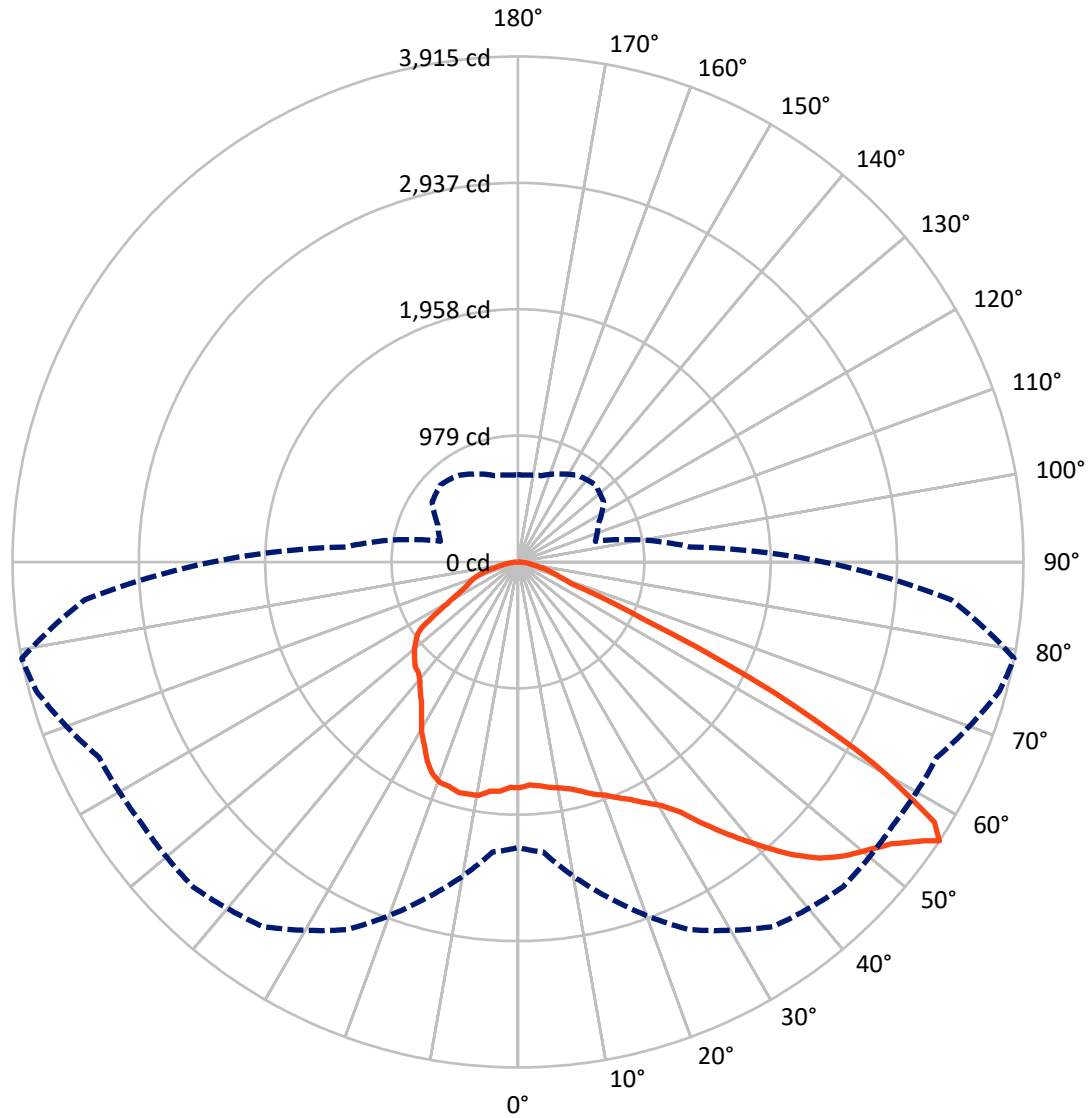
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	2017.9	0.0	2017.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	4815.1	0.0	4815.1
	% Fixture	70.5	0.0	70.5
Total	Lumens	6833.0	0.0	6833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	2.3
10°-20°	435.0	6.4
20°-30°	744.2	10.9
30°-40°	1140.6	16.7
40°-50°	1541.5	22.6
50°-60°	1770.5	25.9
60°-70°	807.0	11.8
70°-80°	199.0	2.9
80°-90°	36.2	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°	6833.0	100.0
0°-180°	6833.0	100.0

Coefficient of Utilization



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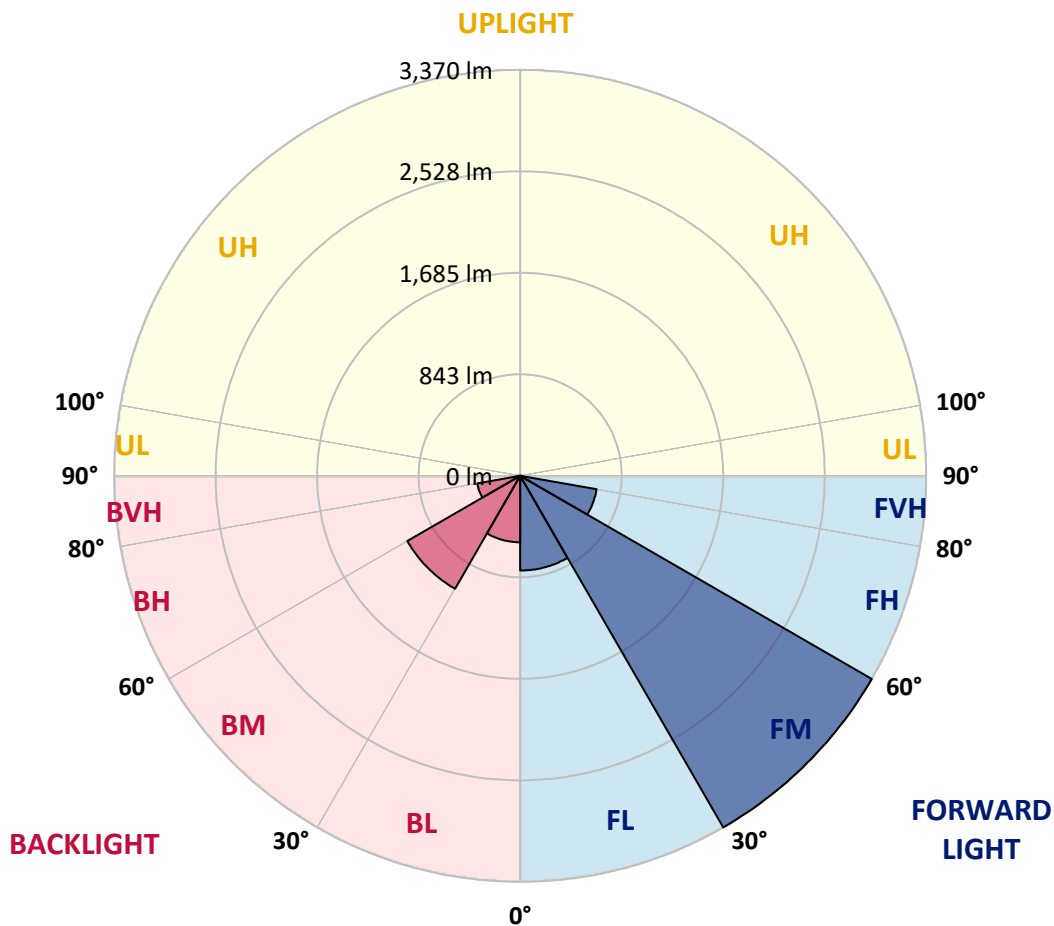
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	786.2	11.5			
FM (30°-60°)	3370.2	49.3			
FH (60°-80°)	644.2	9.4			G0/660
FVH (80°-90°)	14.4	0.2			G1/100
BL (0°-30°)	552.0	8.1	B2/1000		
BM (30°-60°)	1082.4	15.8	B2/2500		
BH (60°-80°)	361.8	5.3	B1/500		G1/500
BVH (80°-90°)	21.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1663.2	1658.9	1669.1	1676.8	1686.2	1698.1	1704.0	1707.4	1737.2	1729.6	1752.5
5°	1627.4	1616.4	1624.0	1630.0	1646.2	1660.6	1676.8	1702.3	1729.6	1741.5	1769.6
7.5°	1595.9	1590.0	1588.3	1592.5	1614.7	1633.4	1661.5	1698.9	1743.2	1762.8	1778.9
10°	1544.0	1535.5	1548.3	1576.4	1582.3	1621.5	1653.8	1707.4	1745.7	1779.8	1827.5
12.5°	1521.0	1512.5	1515.1	1531.2	1573.0	1610.4	1648.7	1709.1	1790.0	1803.6	1867.5
15°	1557.6	1549.1	1551.7	1547.4	1587.4	1607.0	1667.4	1743.2	1820.6	1843.6	1911.7
17.5°	1641.0	1641.9	1630.8	1621.5	1612.1	1653.8	1695.5	1763.6	1832.6	1890.4	1941.5
20°	1800.2	1772.1	1750.0	1697.2	1682.8	1700.6	1753.4	1818.9	1881.1	1928.7	1986.6
22.5°	1922.8	1925.3	1893.8	1807.0	1775.5	1783.2	1828.3	1881.9	1950.0	1984.1	2050.5
25°	2100.7	2082.8	2048.8	1979.8	1909.2	1915.1	1948.3	1996.8	2015.6	2039.4	2111.7
27.5°	2263.2	2268.4	2201.1	2136.4	2048.8	2031.7	2091.3	2099.8	2068.3	2113.4	2138.1
30°	2428.4	2424.1	2379.9	2304.1	2218.1	2221.5	2247.9	2206.2	2162.8	2187.5	2204.5
32.5°	2599.5	2550.9	2549.2	2481.1	2415.6	2384.1	2351.8	2372.2	2305.0	2310.1	2293.9
35°	2736.5	2743.3	2704.2	2655.6	2623.3	2568.0	2479.4	2516.0	2503.3	2497.3	2427.5
37.5°	2836.1	2809.7	2829.3	2813.1	2782.5	2713.5	2621.6	2656.5	2662.4	2691.4	2610.5
40°	2917.8	2906.7	2958.7	2967.2	2945.9	2796.9	2631.8	2735.6	2825.0	2888.0	2791.8
42.5°	2956.9	2980.8	3035.3	3100.8	3053.1	2894.0	2684.6	2796.1	2995.3	3094.8	2963.8
45°	3009.7	2979.1	3059.9	3180.0	3180.8	2975.7	2735.6	2877.8	3128.0	3272.7	3081.2
47.5°	2956.1	2971.4	3054.8	3207.2	3246.3	3061.6	2873.5	2993.5	3274.4	3403.0	3190.2
50°	2836.1	2866.7	3019.1	3177.4	3295.7	3152.7	3031.9	3118.7	3409.8	3507.7	3208.0
52.5°	2711.0	2728.0	2966.3	3200.4	3317.8	3270.2	3243.8	3291.5	3574.9	3626.0	3230.2
55°	2370.5	2451.4	2791.8	3190.2	3425.9	3482.1	3461.7	3531.5	3762.2	3813.2	3351.0
56°	2213.0	2255.6	2687.1	3142.5	3447.2	3559.6	3549.4	3580.9	3861.7	3915.4	3369.8
57.5°	1921.9	1925.3	2291.3	2931.4	3367.2	3582.6	3572.3	3597.0	3842.2	3805.6	3205.5
60°	1202.7	1255.5	1559.3	2254.7	2863.3	3323.8	3381.7	3183.4	3239.5	3162.1	2493.9
62.5°	623.1	615.4	817.1	1318.5	1900.7	2379.9	2433.5	2424.1	2337.3	2224.1	1629.1
65°	310.7	312.4	427.3	652.8	973.7	1246.1	1395.9	1412.1	1181.4	1086.9	772.9
67.5°	225.6	234.1	307.3	399.2	458.8	513.3	629.0	617.1	467.3	444.3	412.0
70°	175.3	183.0	249.4	304.7	276.6	276.6	301.3	311.5	332.8	342.2	353.2
72.5°	127.7	133.6	190.7	210.2	181.3	194.9	225.6	249.4	271.5	274.9	287.7
75°	87.7	92.8	125.1	115.8	108.9	134.5	165.1	187.3	203.4	211.9	219.6
77.5°	57.0	58.7	71.5	60.4	69.8	86.8	107.2	126.0	142.1	149.0	150.7
80°	25.5	28.1	30.6	38.3	48.5	62.1	76.6	91.9	102.1	104.7	109.8
82.5°	14.5	14.5	18.7	27.2	35.7	45.1	55.3	66.4	78.3	80.9	80.0
85°	7.7	7.7	11.1	16.2	22.1	26.4	25.5	26.4	28.1	32.3	31.5
87.5°	2.6	2.6	3.4	3.4	4.3	5.1	4.3	6.0	7.7	7.7	7.7
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°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1745.7	1753.4	1743.2	1765.3	1765.3	1761.1	1739.8	1746.6	1751.7	1751.7	1756.0
5°	1778.9	1776.4	1783.2	1756.8	1740.6	1734.7	1699.8	1682.8	1668.3	1667.4	1654.7
7.5°	1797.7	1790.9	1788.3	1768.7	1697.2	1653.8	1578.9	1535.5	1526.1	1492.9	1505.7
10°	1827.5	1840.2	1827.5	1721.1	1621.5	1521.9	1448.7	1381.4	1355.1	1333.8	1321.0
12.5°	1888.7	1882.8	1808.7	1664.9	1525.3	1407.0	1298.0	1227.4	1201.0	1182.3	1180.6
15°	1940.7	1910.9	1797.7	1576.4	1375.5	1249.5	1160.1	1109.9	1098.0	1099.7	1107.4
17.5°	1958.5	1938.1	1739.8	1484.4	1264.0	1115.9	1074.2	1066.5	1077.6	1090.3	1093.7
20°	1986.6	1954.3	1715.9	1359.3	1126.1	1032.5	1029.9	1057.1	1077.6	1096.3	1098.9
22.5°	2045.4	1963.6	1638.5	1241.0	1031.6	1007.8	1032.5	1055.4	1086.9	1102.3	1088.6
25°	2062.4	1943.2	1529.5	1098.9	972.0	992.5	1018.8	1050.3	1072.5	1081.0	1086.9
27.5°	2076.8	1911.7	1382.3	1004.4	953.3	991.6	1018.8	1045.2	1057.1	1064.8	1071.6
30°	2117.7	1902.4	1254.6	941.4	941.4	974.6	1009.5	1016.3	1032.5	1041.8	1053.7
32.5°	2138.1	1837.7	1123.5	901.4	929.5	983.1	985.6	998.4	999.3	1006.9	994.2
35°	2191.8	1791.7	1001.8	872.4	934.6	974.6	987.4	979.7	938.0	917.6	921.8
37.5°	2230.9	1768.7	914.2	869.0	935.4	983.9	990.8	932.9	889.5	855.4	863.9
40°	2336.4	1711.7	847.8	863.1	943.1	994.2	975.4	912.4	834.1	799.2	793.3
42.5°	2417.3	1670.8	806.1	856.3	949.0	1008.6	967.8	871.6	791.6	759.2	767.8
45°	2510.9	1661.5	783.9	858.0	959.3	1016.3	958.4	840.1	755.0	742.2	739.7
47.5°	2544.1	1594.2	760.1	843.5	956.7	1013.7	926.9	816.3	741.4	743.1	749.9
50°	2488.8	1525.3	742.2	813.7	939.7	990.8	877.6	784.8	733.7	755.0	766.9
52.5°	2418.2	1454.6	705.6	773.7	904.8	955.0	854.6	783.1	726.0	719.2	721.8
55°	2439.4	1396.8	654.5	719.2	848.6	888.6	829.0	766.9	707.3	681.8	690.3
56°	2370.5	1337.2	621.4	685.2	810.3	846.1	816.3	752.4	692.0	675.0	675.0
57.5°	2175.6	1137.2	577.9	630.7	729.4	772.0	791.6	743.9	675.0	645.2	646.0
60°	1604.4	808.6	518.4	555.8	604.3	638.4	729.4	720.1	632.4	612.0	604.3
62.5°	989.1	590.7	475.8	490.3	515.0	543.0	636.7	652.0	587.3	565.2	560.1
65°	554.1	452.0	443.5	449.4	461.3	475.8	528.6	562.6	518.4	484.3	482.6
67.5°	405.2	404.3	411.1	416.2	421.3	421.3	434.1	447.7	441.8	414.5	412.0
70°	360.0	362.6	367.7	368.6	370.3	364.3	354.1	349.8	356.6	339.6	336.2
72.5°	297.1	305.6	311.5	312.4	303.0	295.4	281.7	267.3	262.2	258.8	257.9
75°	228.1	234.1	236.6	235.8	232.4	221.3	205.1	190.7	181.3	171.1	176.2
77.5°	154.1	162.6	166.8	166.8	161.7	144.7	137.0	126.0	116.6	105.5	107.2
80°	108.1	114.1	120.9	120.0	111.5	103.0	91.9	81.7	74.1	65.5	64.7
82.5°	80.9	84.3	87.7	86.0	80.0	71.5	63.8	54.5	46.0	40.0	40.0
85°	28.9	31.5	38.3	40.0	43.4	43.4	36.6	30.6	24.7	20.4	20.4
87.5°	8.5	8.5	9.4	9.4	8.5	9.4	7.7	8.5	9.4	6.0	6.0
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)