

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: P526596

Luminaire Tested: **GALN-SA1C-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526596
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-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 6018 lumens
Efficiency: N/A
Efficacy: 105.6 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

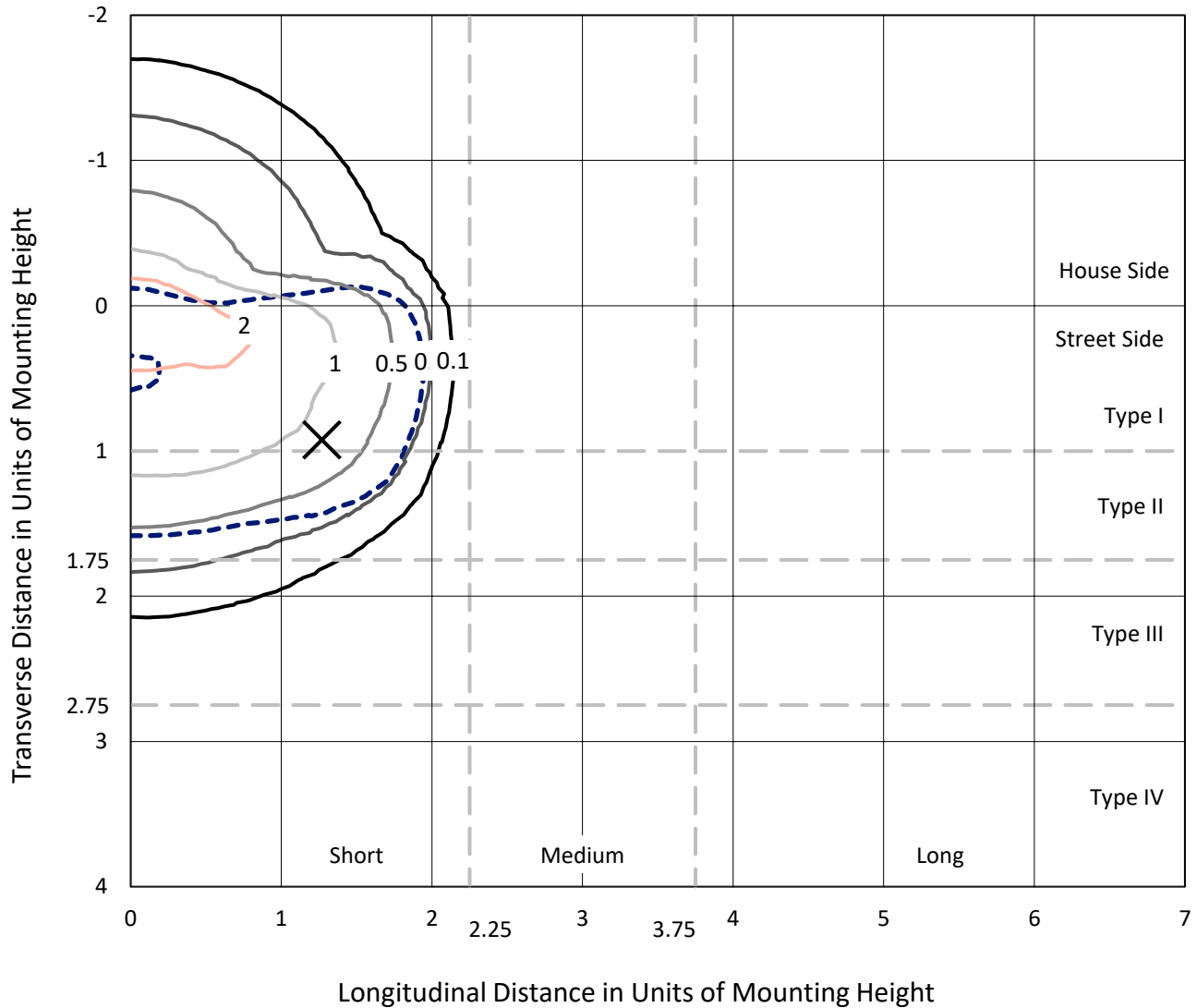
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

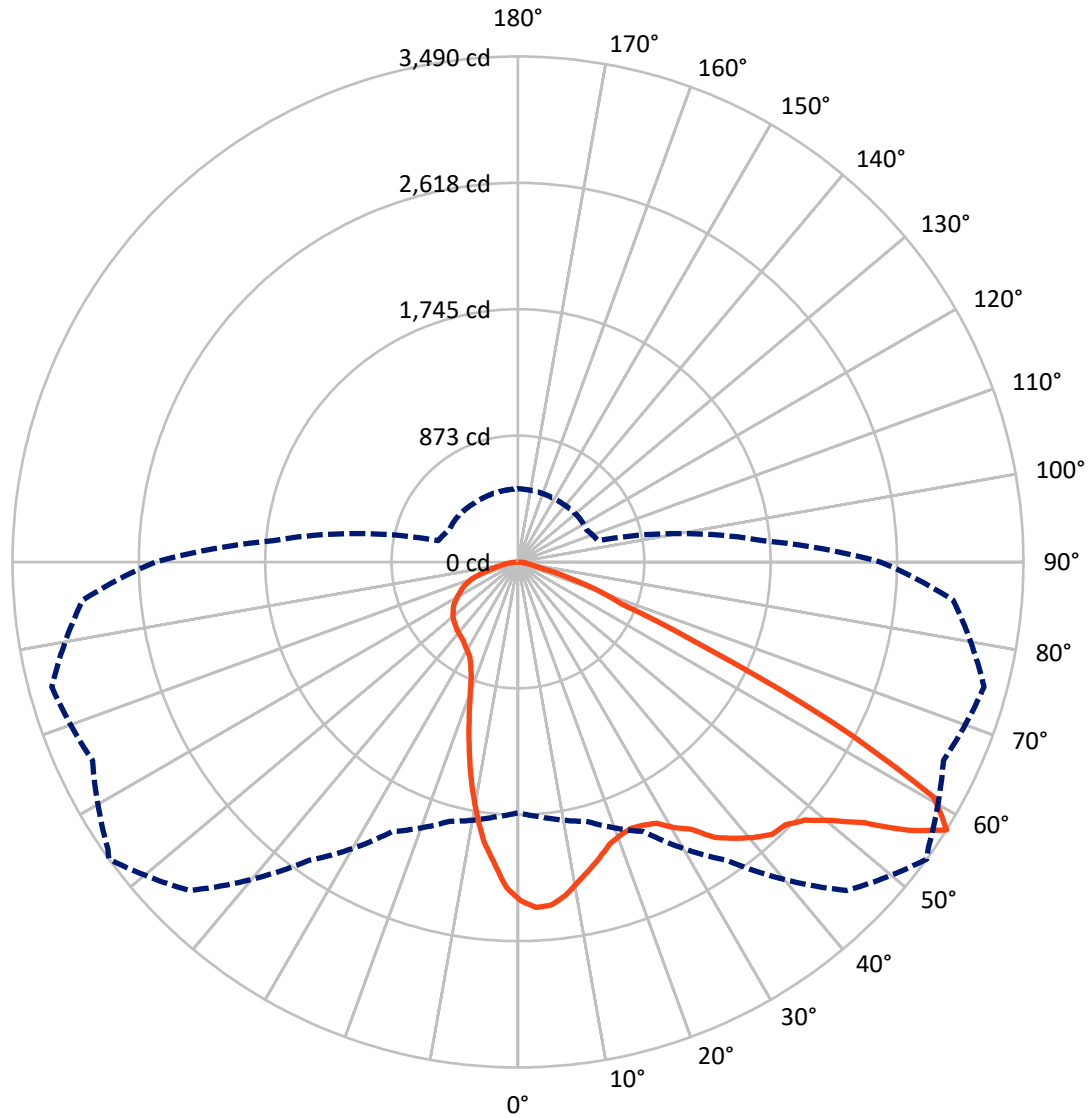
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1664.9	0.0	1664.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	4353.1	0.0	4353.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	6018.0	0.0	6018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.7	3.4
10°-20°	467.1	7.8
20°-30°	656.2	10.9
30°-40°	917.4	15.2
40°-50°	1242.0	20.6
50°-60°	1512.8	25.1
60°-70°	788.0	13.1
70°-80°	201.9	3.4
80°-90°	30.8	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°	6018.0	100.0
0°-180°	6018.0	100.0

Coefficient of Utilization



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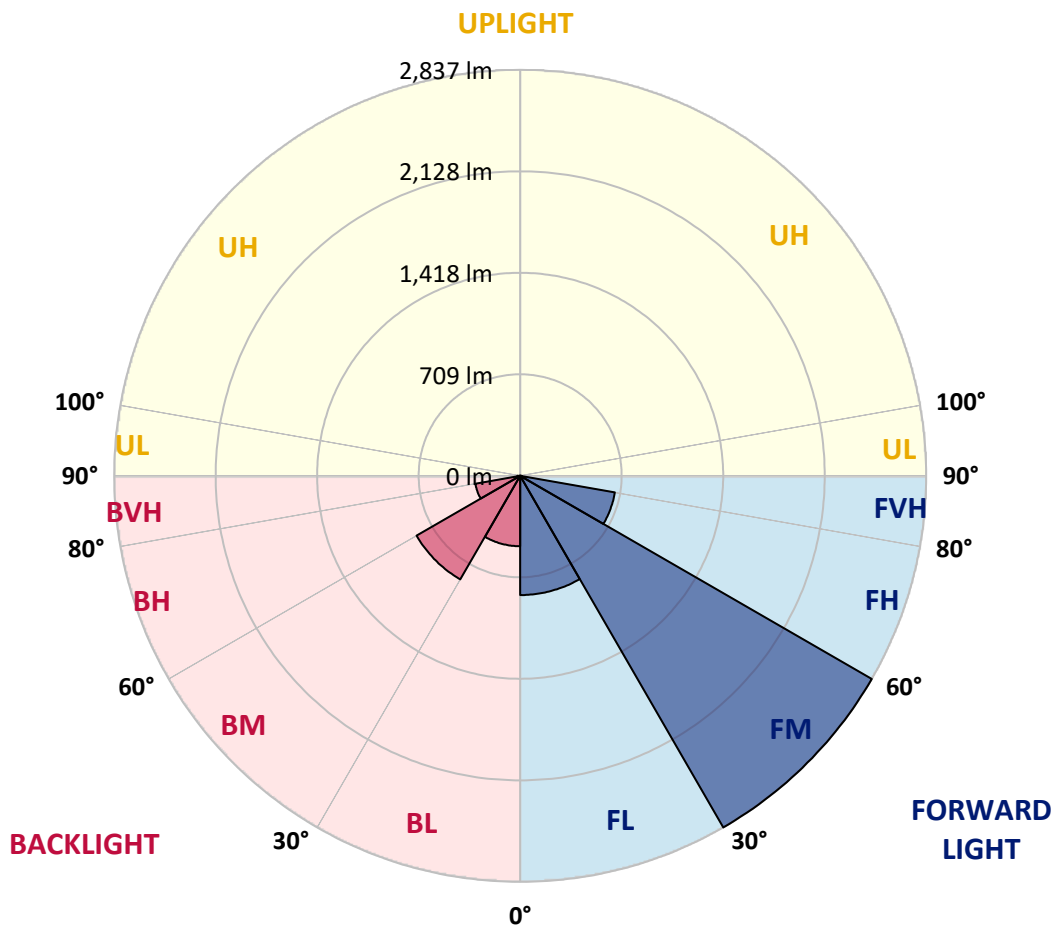
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.0	13.8			
FM (30°-60°)	2836.7	47.1			
FH (60°-80°)	671.8	11.2			G1/1800
FVH (80°-90°)	11.6	0.2			G1/100
BL (0°-30°)	492.1	8.2	B1/500		
BM (30°-60°)	835.6	13.9	B1/1000		
BH (60°-80°)	318.1	5.3	B1/500		G1/500
BVH (80°-90°)	19.2	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°	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1
2.5°	2405.7	2396.4	2397.9	2410.3	2394.8	2388.6	2388.6	2358.5	2360.8	2339.9	2334.5
5°	2350.0	2328.3	2343.0	2361.6	2364.7	2370.8	2380.9	2373.2	2351.5	2329.1	2292.7
7.5°	2204.5	2223.9	2229.3	2242.4	2270.3	2295.8	2327.5	2305.9	2305.1	2282.7	2261.0
10°	2076.9	2065.3	2094.7	2114.0	2160.4	2203.0	2251.7	2249.4	2261.0	2235.5	2198.3
12.5°	1950.0	1940.8	1954.7	1998.8	2063.8	2125.6	2183.6	2162.0	2223.9	2219.2	2139.6
15°	1815.5	1822.4	1842.5	1883.5	1968.6	2042.9	2116.4	2117.1	2172.0	2190.6	2083.9
17.5°	1721.1	1713.3	1738.9	1800.0	1875.8	1964.7	2048.3	2065.3	2149.6	2160.4	2066.8
20°	1650.7	1661.5	1694.8	1725.7	1813.1	1920.7	2015.0	2021.2	2145.0	2174.4	2039.8
22.5°	1633.7	1627.5	1638.3	1688.6	1760.5	1877.3	1997.2	2020.4	2144.2	2169.7	1988.7
25°	1615.9	1636.0	1635.2	1685.5	1738.1	1842.5	2011.9	2037.5	2185.2	2193.7	1995.7
27.5°	1656.1	1653.8	1675.4	1679.3	1744.3	1851.8	2042.9	2062.2	2253.3	2246.3	2001.1
30°	1696.3	1684.7	1697.9	1743.5	1773.7	1905.2	2128.0	2126.4	2341.4	2336.8	2018.1
32.5°	1745.8	1740.4	1748.9	1789.2	1840.2	1976.3	2199.9	2245.5	2431.2	2460.6	2076.9
35°	1755.1	1777.6	1797.7	1851.8	1924.5	2091.6	2335.3	2373.2	2534.8	2626.9	2189.1
37.5°	1813.9	1822.4	1869.6	1965.5	2032.0	2245.5	2421.1	2445.1	2629.2	2733.6	2307.4
40°	1876.6	1886.6	1957.8	2058.3	2149.6	2346.1	2501.6	2509.3	2659.4	2815.6	2384.8
42.5°	1961.6	1970.9	2041.3	2167.4	2289.6	2432.0	2572.7	2581.2	2657.0	2910.0	2507.8
45°	2049.8	2072.3	2155.0	2298.1	2408.0	2532.5	2589.0	2623.8	2678.7	2994.3	2607.5
47.5°	2173.6	2194.5	2262.5	2402.6	2531.0	2620.7	2664.0	2698.0	2730.5	3067.8	2671.7
50°	2305.1	2309.0	2391.7	2518.6	2613.0	2720.5	2804.0	2815.6	2798.6	3152.9	2780.8
52.5°	2401.8	2414.2	2478.4	2602.1	2742.9	2875.2	2989.7	3002.0	2968.8	3184.6	2817.9
55°	2241.7	2234.7	2339.1	2503.9	2830.3	3105.7	3272.0	3281.3	3092.5	3282.8	2939.4
57.5°	1732.7	1765.9	1854.9	2053.7	2514.7	3207.8	3490.1	3456.9	3241.1	3332.3	3016.7
60°	1259.3	1251.6	1311.1	1444.2	1895.1	2764.6	3299.8	3333.9	3119.6	3003.6	2487.6
62.5°	1025.7	1014.9	1019.5	1024.1	1222.9	1834.8	2442.8	2442.0	2402.6	2158.9	1677.8
65°	819.9	845.5	847.8	882.6	908.1	1096.1	1415.5	1491.3	1298.7	1065.1	772.7
67.5°	618.0	608.8	639.7	763.5	811.4	791.3	772.7	781.3	555.4	400.7	377.5
70°	364.3	360.5	397.6	532.2	668.3	628.9	582.5	583.2	381.3	280.0	311.7
72.5°	199.6	198.8	206.5	270.0	379.8	394.5	349.6	360.5	227.4	226.6	243.7
75°	111.4	109.1	106.7	119.1	136.9	144.6	147.7	149.3	156.3	174.8	181.8
77.5°	41.0	39.4	39.4	45.6	58.0	72.7	92.0	93.6	110.6	126.9	133.8
80°	13.9	15.5	20.9	28.6	38.7	51.8	62.7	64.2	78.1	89.0	91.3
82.5°	8.5	9.3	13.9	20.1	27.8	36.4	46.4	47.2	58.0	65.0	68.1
85°	3.9	4.6	7.7	12.4	17.8	24.0	24.8	24.8	24.0	24.8	23.2
87.5°	0.0	0.0	1.5	1.5	1.5	2.3	3.1	2.3	3.9	4.6	4.6
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°	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1	2339.1
2.5°	2318.2	2309.7	2283.4	2260.2	2253.3	2222.3	2176.7	2182.1	2148.8	2164.3	2148.1
5°	2286.5	2257.9	2190.6	2162.0	2087.0	2052.9	2029.7	1971.7	1944.6	1939.2	1916.0
7.5°	2205.3	2187.5	2103.2	2025.9	1946.2	1878.1	1790.7	1731.1	1688.6	1677.0	1643.0
10°	2141.1	2101.7	1984.9	1867.3	1753.6	1635.2	1521.5	1432.6	1389.2	1339.0	1321.9
12.5°	2077.7	2018.1	1860.3	1709.5	1562.5	1413.2	1275.5	1167.2	1072.9	1050.4	1042.7
15°	2038.2	1934.6	1748.9	1567.2	1358.3	1163.4	1025.7	954.5	896.5	872.5	889.5
17.5°	1986.4	1865.7	1642.2	1400.1	1170.3	990.9	875.6	831.5	810.7	813.0	806.0
20°	1921.4	1800.8	1502.2	1248.5	1002.5	859.4	793.6	777.4	780.5	785.9	783.6
22.5°	1875.0	1721.9	1400.8	1093.8	866.3	786.7	759.6	748.0	758.1	762.7	758.8
25°	1839.4	1654.6	1277.9	956.8	787.4	745.7	733.3	732.5	748.0	754.2	750.3
27.5°	1806.9	1591.9	1155.6	852.4	734.8	714.0	710.1	719.4	729.4	735.6	741.0
30°	1787.6	1543.9	1041.2	765.0	708.5	698.5	691.5	700.0	705.5	711.6	708.5
32.5°	1806.2	1509.9	930.5	715.5	686.9	676.8	686.1	680.7	690.0	695.4	686.9
35°	1864.2	1479.7	851.6	689.2	662.1	666.0	667.5	665.2	669.1	664.5	674.5
37.5°	1921.4	1468.9	778.9	666.8	650.5	650.5	649.0	644.3	652.1	650.5	655.2
40°	1994.1	1475.9	717.1	642.8	639.7	638.2	632.0	631.2	628.1	628.9	630.4
42.5°	2057.6	1491.3	681.5	627.3	629.6	632.7	621.1	611.9	615.7	608.0	608.0
45°	2124.9	1505.3	649.8	616.5	614.2	613.4	604.1	598.7	595.6	596.4	603.3
47.5°	2230.8	1525.4	625.8	601.8	603.3	591.7	589.4	582.5	585.6	590.2	591.0
50°	2305.9	1567.9	607.2	584.8	590.2	582.5	568.5	565.4	565.4	573.2	571.6
52.5°	2358.5	1627.5	589.4	566.2	568.5	562.3	557.7	550.7	546.1	556.9	562.3
55°	2519.4	1726.5	584.8	550.7	550.0	543.8	535.3	528.3	526.0	527.5	538.4
57.5°	2503.9	1695.6	570.1	523.7	522.1	513.6	505.1	502.8	502.0	503.6	506.7
60°	2032.8	1252.3	509.0	492.7	490.4	488.9	480.4	471.1	466.4	471.1	467.2
62.5°	1345.2	838.5	448.6	455.6	457.2	453.3	439.4	430.1	431.6	437.0	428.5
65°	660.6	492.7	406.9	425.4	427.0	416.2	403.0	392.2	386.8	391.4	387.5
67.5°	377.5	376.7	372.8	392.2	391.4	380.6	359.7	350.4	341.1	342.7	340.3
70°	320.2	326.4	334.2	345.8	345.0	332.6	307.9	300.9	287.7	286.2	282.3
72.5°	252.2	263.0	280.0	288.5	281.6	266.1	249.8	238.2	226.6	219.7	222.0
75°	187.2	202.7	211.9	217.4	206.5	198.0	184.9	170.9	157.0	150.8	148.5
77.5°	136.1	140.8	149.3	153.2	146.2	137.7	130.0	116.0	102.9	94.4	92.0
80°	95.1	98.2	104.4	104.4	104.4	100.6	90.5	76.6	68.1	60.3	58.8
82.5°	66.5	69.6	75.8	72.7	71.9	67.3	61.1	50.3	41.0	35.6	34.0
85°	23.2	25.5	30.9	37.1	39.4	38.7	34.8	27.8	21.7	17.8	16.2
87.5°	5.4	5.4	6.2	5.4	5.4	6.2	5.4	5.4	5.4	3.9	3.1
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)