

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: P526570

Luminaire Tested: **GALN-SA1C-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526570
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-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 5606 lumens
Efficiency: N/A
Efficacy: 98.4 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

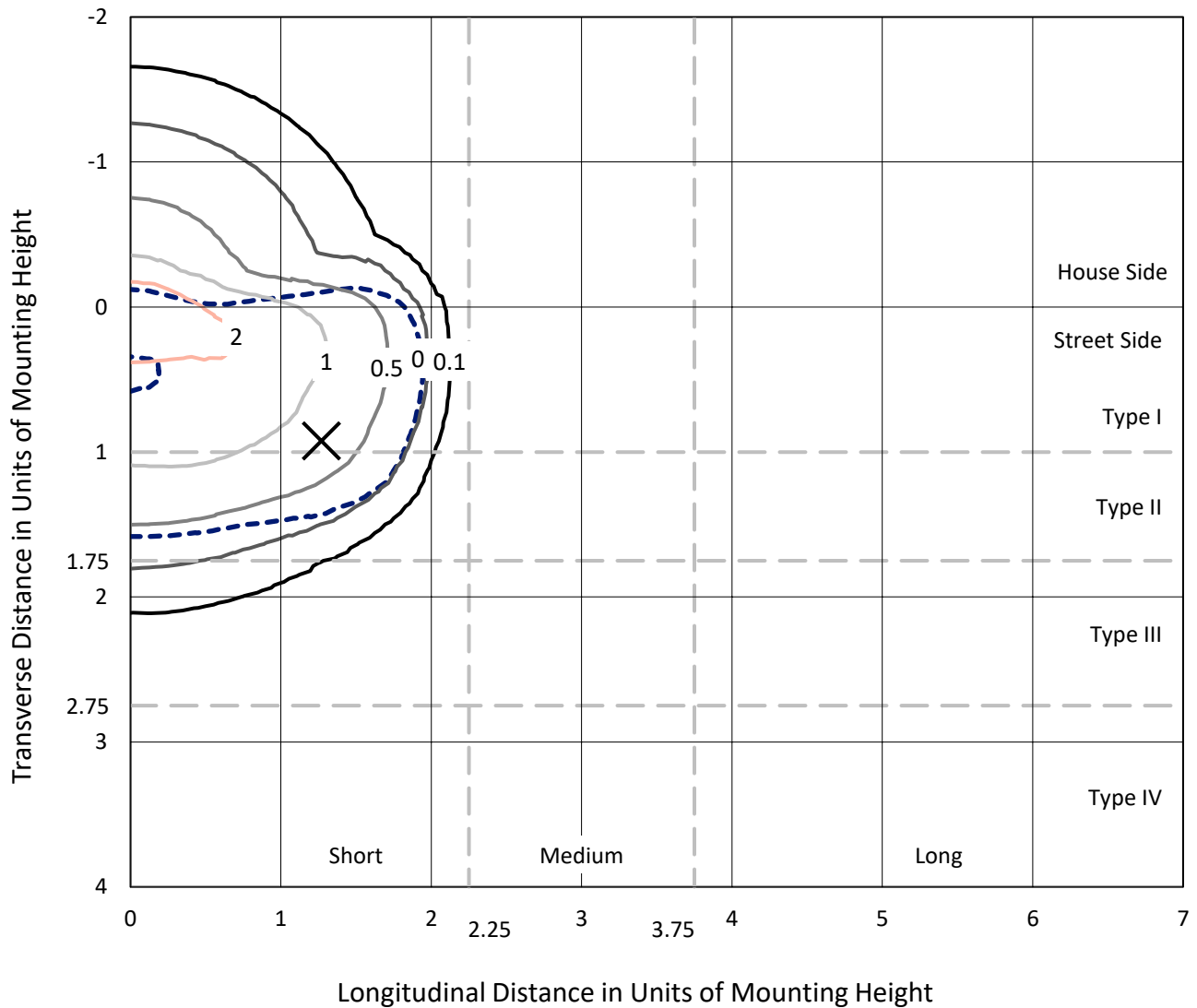
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

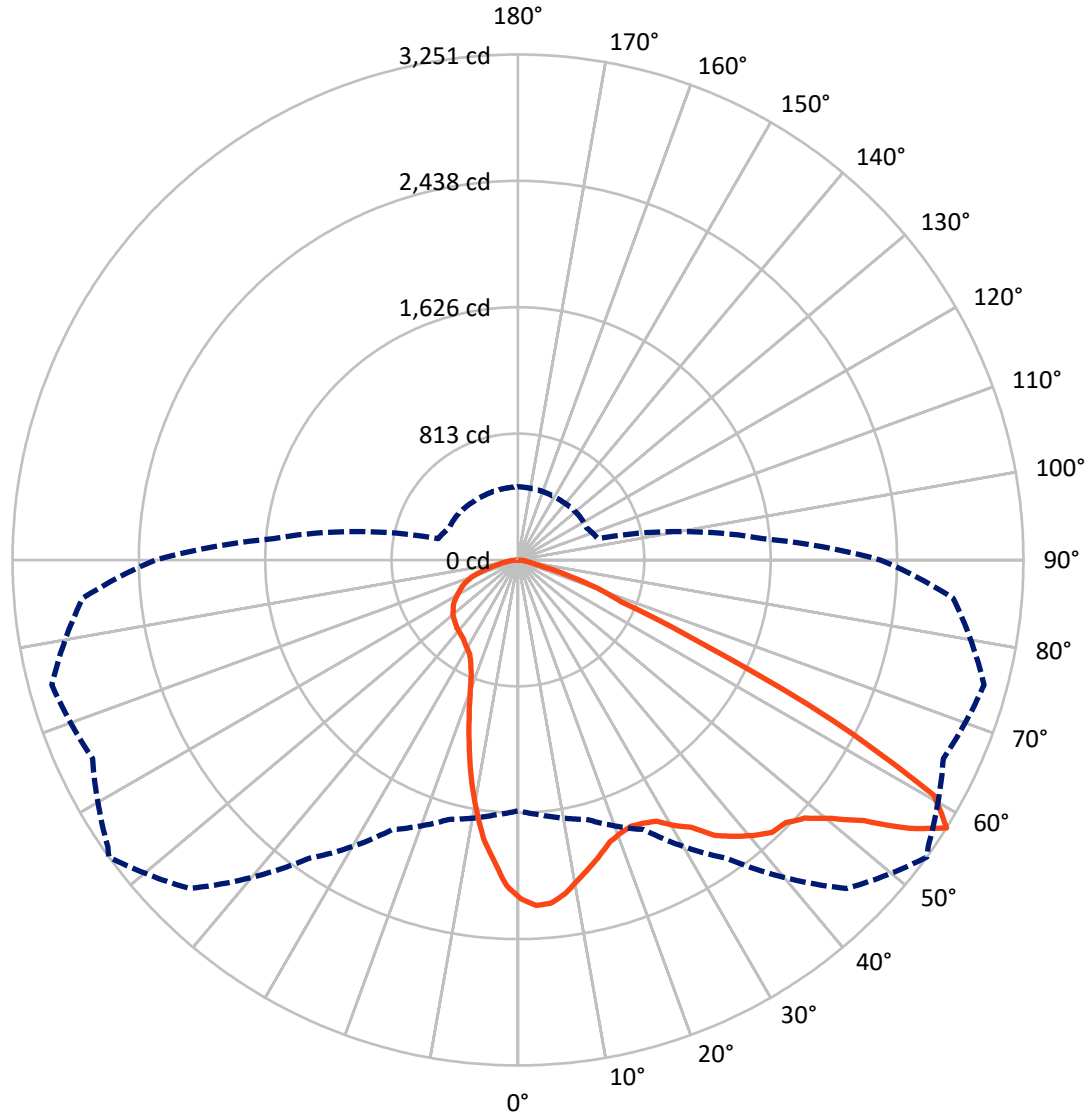
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1550.9	0.0	1550.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	4055.1	0.0	4055.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	5606.0	0.0	5606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	3.4
10°-20°	435.1	7.8
20°-30°	611.3	10.9
30°-40°	854.6	15.2
40°-50°	1157.0	20.6
50°-60°	1409.3	25.1
60°-70°	734.0	13.1
70°-80°	188.1	3.4
80°-90°	28.7	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°	5606.0	100.0
0°-180°	5606.0	100.0

Coefficient of Utilization



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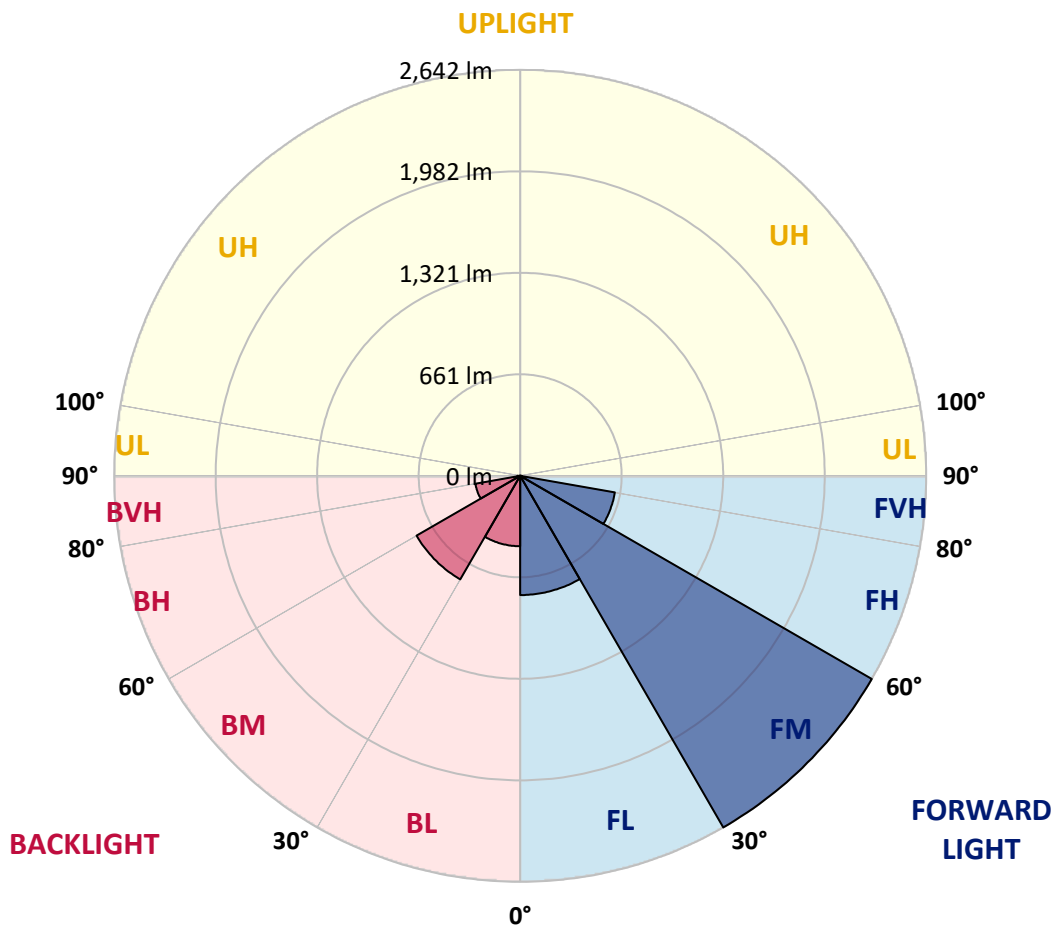
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.9	13.8			
FM (30°-60°)	2642.5	47.1			
FH (60°-80°)	625.8	11.2			G0/660
FVH (80°-90°)	10.8	0.2			G1/100
BL (0°-30°)	458.4	8.2	B1/500		
BM (30°-60°)	778.4	13.9	B1/1000		
BH (60°-80°)	296.3	5.3	B1/500		G1/500
BVH (80°-90°)	17.8	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°	2179.0	2179.0	2179.0	2179.0	2179.0	2179.0	2179.0	2179.0	2179.0	2179.0	2179.0
2.5°	2241.0	2232.3	2233.8	2245.3	2230.9	2225.1	2225.1	2197.0	2199.2	2179.7	2174.7
5°	2189.1	2168.9	2182.6	2199.9	2202.8	2208.5	2217.9	2210.7	2190.5	2169.6	2135.8
7.5°	2053.6	2071.6	2076.7	2088.9	2114.9	2138.6	2168.2	2148.0	2147.3	2126.4	2106.2
10°	1934.7	1923.9	1951.3	1969.3	2012.5	2052.2	2097.6	2095.4	2106.2	2082.4	2047.8
12.5°	1816.5	1807.9	1820.9	1861.9	1922.5	1980.1	2034.2	2014.0	2071.6	2067.3	1993.1
15°	1691.2	1697.7	1716.4	1754.6	1833.8	1903.0	1971.5	1972.2	2023.3	2040.6	1941.2
17.5°	1603.3	1596.1	1619.8	1676.8	1747.4	1830.2	1908.1	1923.9	2002.4	2012.5	1925.3
20°	1537.7	1547.8	1578.8	1607.6	1689.0	1789.2	1877.1	1882.8	1998.1	2025.5	1900.1
22.5°	1521.8	1516.1	1526.2	1573.0	1640.0	1748.8	1860.5	1882.1	1997.4	2021.2	1852.6
25°	1505.3	1524.0	1523.3	1570.1	1619.1	1716.4	1874.2	1898.0	2035.6	2043.5	1859.1
27.5°	1542.7	1540.6	1560.7	1564.3	1624.9	1725.0	1903.0	1921.0	2099.0	2092.5	1864.1
30°	1580.2	1569.4	1581.6	1624.2	1652.3	1774.8	1982.3	1980.8	2181.1	2176.8	1880.0
32.5°	1626.3	1621.3	1629.2	1666.7	1714.2	1841.0	2049.3	2091.8	2264.7	2292.1	1934.7
35°	1635.0	1655.9	1674.6	1725.0	1792.8	1948.4	2175.4	2210.7	2361.3	2447.0	2039.2
37.5°	1689.7	1697.7	1741.6	1831.0	1892.9	2091.8	2255.4	2277.7	2449.2	2546.5	2149.4
40°	1748.1	1757.5	1823.7	1917.4	2002.4	2185.5	2330.3	2337.5	2477.3	2622.9	2221.5
42.5°	1827.4	1836.0	1901.6	2019.0	2132.9	2265.5	2396.6	2404.5	2475.1	2710.8	2336.1
45°	1909.5	1930.4	2007.5	2140.8	2243.1	2359.1	2411.7	2444.2	2495.3	2789.3	2429.0
47.5°	2024.8	2044.2	2107.7	2238.1	2357.7	2441.3	2481.6	2513.3	2543.6	2857.8	2488.8
50°	2147.3	2150.9	2228.0	2346.2	2434.1	2534.2	2612.0	2622.9	2607.0	2937.0	2590.4
52.5°	2237.4	2248.9	2308.7	2424.0	2555.1	2678.3	2785.0	2796.5	2765.5	2966.6	2625.0
55°	2088.2	2081.7	2179.0	2332.5	2636.5	2893.1	3048.0	3056.6	2880.8	3058.1	2738.1
57.5°	1614.1	1645.0	1727.9	1913.1	2342.6	2988.2	3251.2	3220.2	3019.2	3104.2	2810.2
60°	1173.1	1165.9	1221.4	1345.3	1765.4	2575.3	3073.9	3105.6	2906.0	2798.0	2317.3
62.5°	955.5	945.4	949.7	954.0	1139.2	1709.2	2275.5	2274.8	2238.1	2011.1	1562.9
65°	763.8	787.6	789.7	822.2	845.9	1021.0	1318.6	1389.2	1209.8	992.2	719.8
67.5°	575.7	567.1	595.9	711.2	755.9	737.1	719.8	727.8	517.4	373.3	351.6
70°	339.4	335.8	370.4	495.7	622.6	585.8	542.6	543.3	355.2	260.8	290.4
72.5°	185.9	185.2	192.4	251.5	353.8	367.5	325.7	335.8	211.8	211.1	227.0
75°	103.8	101.6	99.4	111.0	127.5	134.7	137.6	139.1	145.6	162.8	169.3
77.5°	38.2	36.7	36.7	42.5	54.0	67.7	85.7	87.2	103.0	118.2	124.7
80°	13.0	14.4	19.5	26.7	36.0	48.3	58.4	59.8	72.8	82.9	85.0
82.5°	7.9	8.6	13.0	18.7	25.9	33.9	43.2	44.0	54.0	60.5	63.4
85°	3.6	4.3	7.2	11.5	16.6	22.3	23.1	23.1	22.3	23.1	21.6
87.5°	0.0	0.0	1.4	1.4	1.4	2.2	2.9	2.2	3.6	4.3	4.3
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°	2179.0	2179.0	2179.0	2179.0	2179.0	2179.0	2179.0	2179.0	2179.0	2179.0	2179.0
2.5°	2159.5	2151.6	2127.1	2105.5	2099.0	2070.2	2027.7	2032.7	2001.7	2016.1	2001.0
5°	2130.0	2103.3	2040.6	2014.0	1944.1	1912.4	1890.8	1836.7	1811.5	1806.5	1784.8
7.5°	2054.3	2037.8	1959.2	1887.2	1812.9	1749.5	1668.1	1612.6	1573.0	1562.2	1530.5
10°	1994.5	1957.8	1849.0	1739.4	1633.5	1523.3	1417.4	1334.5	1294.1	1247.3	1231.4
12.5°	1935.4	1880.0	1733.0	1592.4	1455.5	1316.5	1188.2	1087.3	999.4	978.5	971.3
15°	1898.7	1802.1	1629.2	1459.9	1265.3	1083.7	955.5	889.2	835.1	812.8	828.6
17.5°	1850.4	1738.0	1529.8	1304.2	1090.2	923.0	815.7	774.6	755.2	757.3	750.8
20°	1789.9	1677.5	1399.3	1163.0	933.9	800.5	739.3	724.2	727.0	732.1	729.9
22.5°	1746.6	1604.0	1304.9	1018.9	807.0	732.8	707.6	696.8	706.2	710.5	706.9
25°	1713.5	1541.3	1190.4	891.3	733.5	694.6	683.1	682.4	696.8	702.6	698.9
27.5°	1683.2	1482.9	1076.5	794.1	684.5	665.1	661.5	670.1	679.5	685.3	690.3
30°	1665.2	1438.2	969.9	712.6	660.0	650.7	644.2	652.1	657.2	662.9	660.0
32.5°	1682.5	1406.5	866.8	666.5	639.9	630.5	639.1	634.1	642.7	647.8	639.9
35°	1736.6	1378.4	793.3	642.0	616.8	620.4	621.8	619.7	623.3	619.0	628.3
37.5°	1789.9	1368.4	725.6	621.1	606.0	606.0	604.6	600.2	607.4	606.0	610.3
40°	1857.6	1374.8	668.0	598.8	595.9	594.5	588.7	588.0	585.1	585.8	587.3
42.5°	1916.7	1389.2	634.8	584.4	586.5	589.4	578.6	570.0	573.6	566.4	566.4
45°	1979.4	1402.2	605.3	574.3	572.1	571.4	562.8	557.7	554.8	555.6	562.0
47.5°	2078.1	1421.0	582.9	560.6	562.0	551.2	549.1	542.6	545.5	549.8	550.5
50°	2148.0	1460.6	565.6	544.7	549.8	542.6	529.6	526.7	526.7	533.9	532.5
52.5°	2197.0	1516.1	549.1	527.5	529.6	523.9	519.5	513.0	508.7	518.8	523.9
55°	2346.9	1608.3	544.7	513.0	512.3	506.6	498.6	492.1	490.0	491.4	501.5
57.5°	2332.5	1579.5	531.1	487.8	486.4	478.5	470.5	468.4	467.6	469.1	472.0
60°	1893.6	1166.6	474.1	459.0	456.8	455.4	447.5	438.8	434.5	438.8	435.2
62.5°	1253.1	781.1	417.9	424.4	425.9	422.3	409.3	400.6	402.1	407.1	399.2
65°	615.4	459.0	379.0	396.3	397.8	387.7	375.4	365.3	360.3	364.6	361.0
67.5°	351.6	350.9	347.3	365.3	364.6	354.5	335.1	326.4	317.8	319.2	317.0
70°	298.3	304.1	311.3	322.1	321.4	309.8	286.8	280.3	268.1	266.6	263.0
72.5°	234.9	245.0	260.8	268.8	262.3	247.9	232.7	221.9	211.1	204.6	206.8
75°	174.4	188.8	197.4	202.5	192.4	184.5	172.2	159.2	146.3	140.5	138.3
77.5°	126.8	131.1	139.1	142.7	136.2	128.3	121.1	108.1	95.8	87.9	85.7
80°	88.6	91.5	97.3	97.3	97.3	93.7	84.3	71.3	63.4	56.2	54.8
82.5°	62.0	64.9	70.6	67.7	67.0	62.7	56.9	46.8	38.2	33.1	31.7
85°	21.6	23.8	28.8	34.6	36.7	36.0	32.4	25.9	20.2	16.6	15.1
87.5°	5.0	5.0	5.8	5.0	5.0	5.8	5.0	5.0	5.0	3.6	2.9
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)