

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: P526752

Luminaire Tested: **GALN-SA1D-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526752  
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-SA1D-727-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA 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: 5539 lumens  
Efficiency: N/A  
Efficacy: 85.2 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

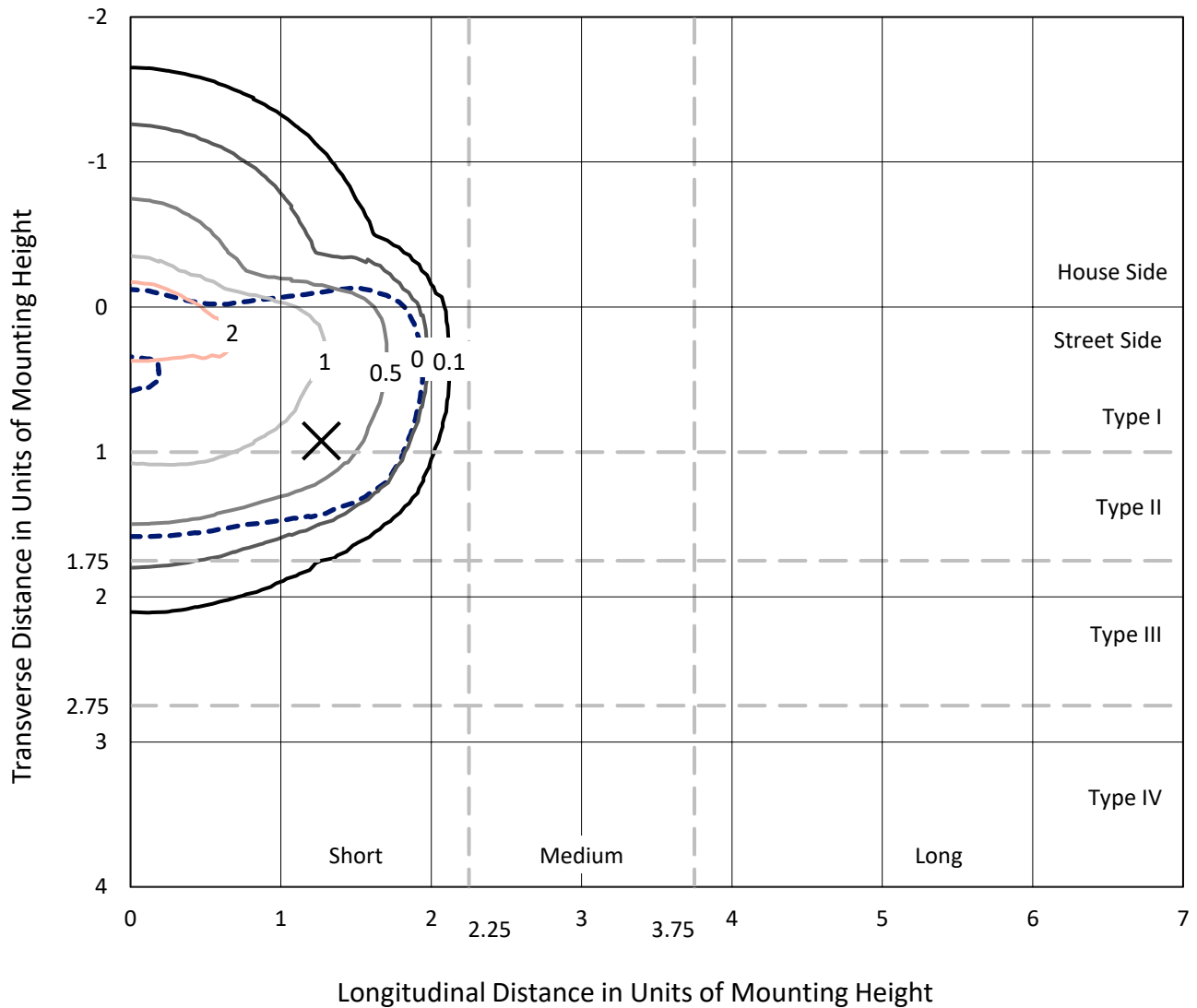
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

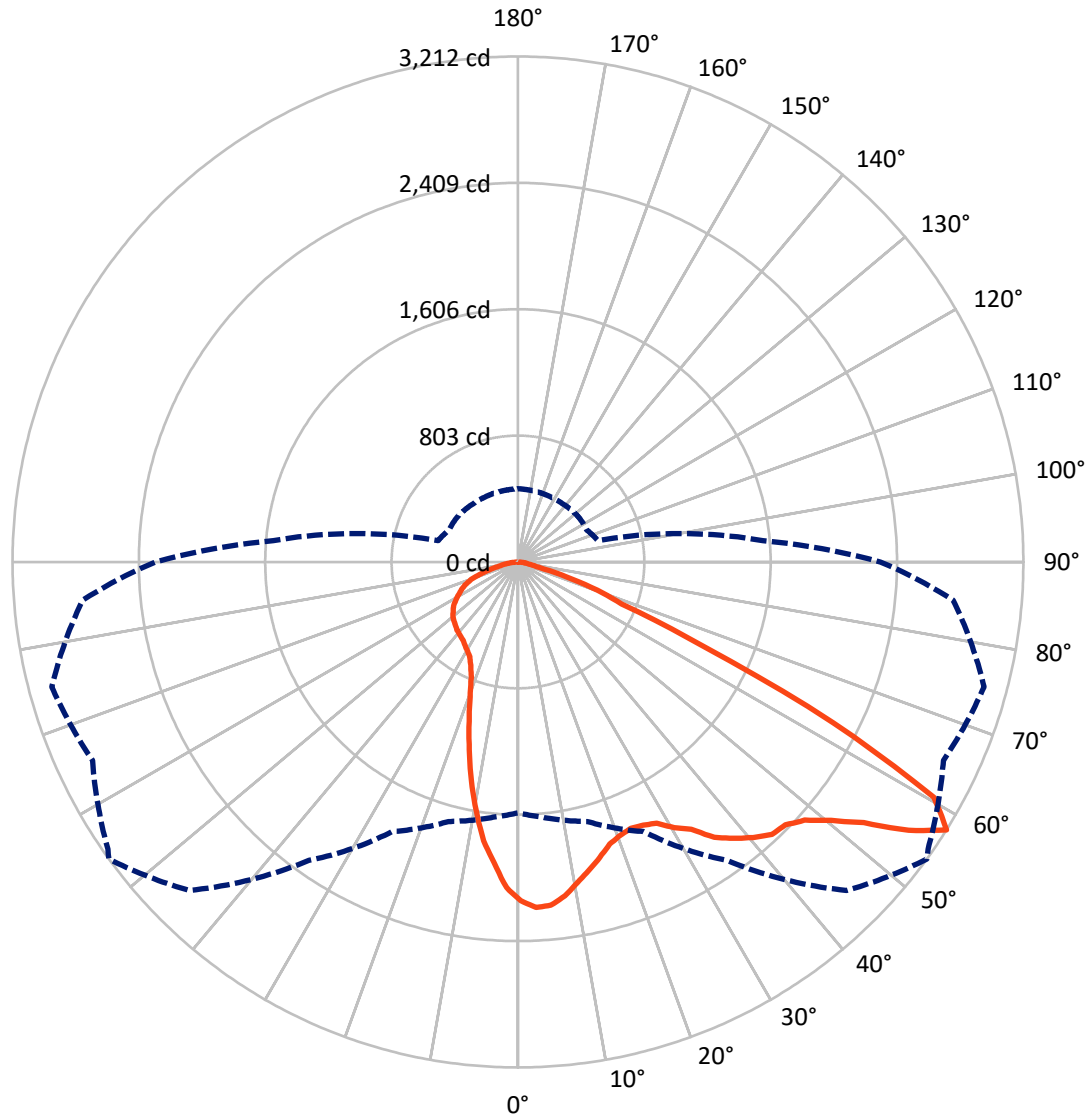
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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
<b>House Side</b>	Lumens	1532.4	0.0	1532.4
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	4006.6	0.0	4006.6
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	5539.0	0.0	5539.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.7	3.4
10°-20°	429.9	7.8
20°-30°	604.0	10.9
30°-40°	844.4	15.2
40°-50°	1143.2	20.6
50°-60°	1392.4	25.1
60°-70°	725.2	13.1
70°-80°	185.8	3.4
80°-90°	28.3	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°	5539.0	100.0
0°-180°	5539.0	100.0

**Coefficient of Utilization**



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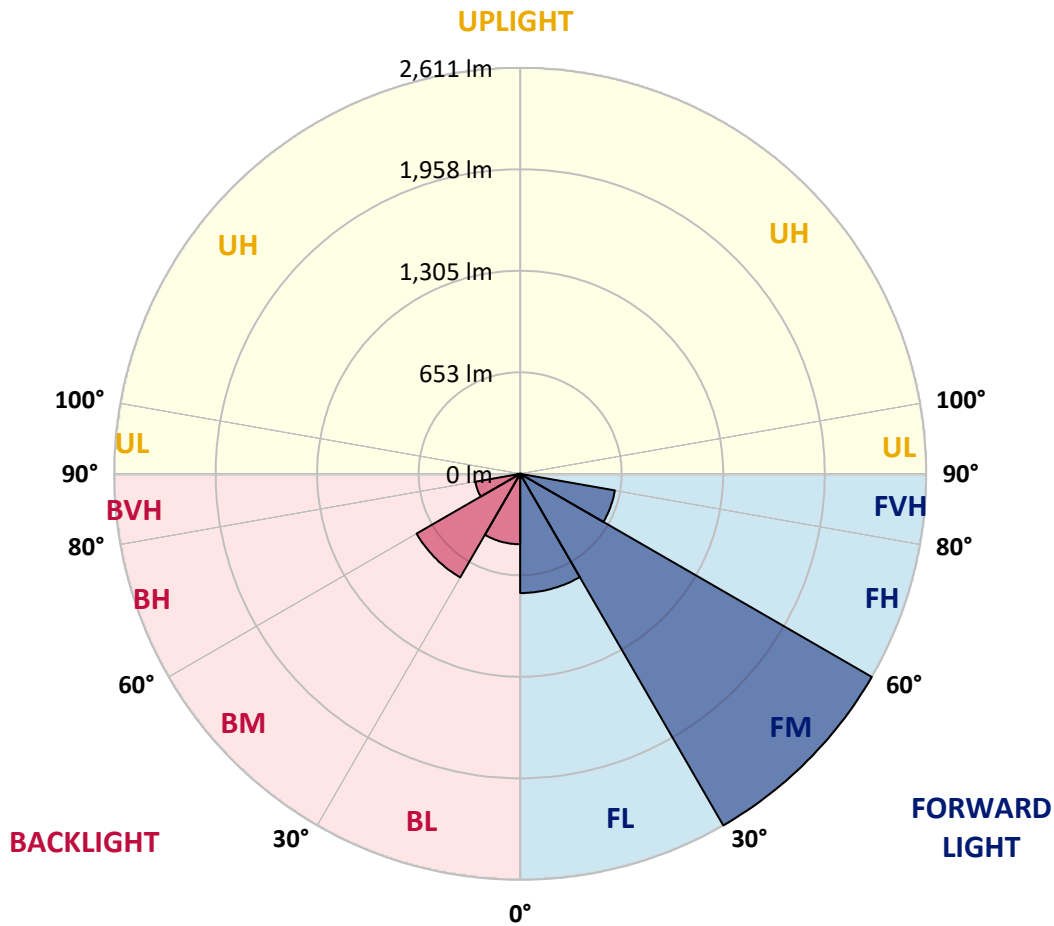
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.7	13.8			
FM (30°-60°)	2610.9	47.1			
FH (60°-80°)	618.3	11.2			G0/660
FVH (80°-90°)	10.7	0.2			G1/100
BL (0°-30°)	452.9	8.2	B1/500		
BM (30°-60°)	769.1	13.9	B1/1000		
BH (60°-80°)	292.8	5.3	B1/500		G1/500
BVH (80°-90°)	17.6	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°	2152.9	2152.9	2152.9	2152.9	2152.9	2152.9	2152.9	2152.9	2152.9	2152.9	2152.9
2.5°	2214.2	2205.6	2207.1	2218.4	2204.2	2198.5	2198.5	2170.7	2172.9	2153.7	2148.7
5°	2162.9	2143.0	2156.5	2173.6	2176.4	2182.1	2191.4	2184.3	2164.3	2143.7	2110.2
7.5°	2029.1	2046.9	2051.8	2064.0	2089.6	2113.1	2142.3	2122.3	2121.6	2101.0	2081.0
10°	1911.6	1900.9	1928.0	1945.8	1988.5	2027.6	2072.5	2070.4	2081.0	2057.5	2023.4
12.5°	1794.8	1786.3	1799.1	1839.7	1899.5	1956.4	2009.8	1989.9	2046.9	2042.6	1969.3
15°	1671.0	1677.4	1695.9	1733.6	1811.9	1880.3	1947.9	1948.6	1999.2	2016.3	1918.0
17.5°	1584.1	1577.0	1600.5	1656.7	1726.5	1808.4	1885.3	1900.9	1978.5	1988.5	1902.3
20°	1519.3	1529.3	1559.9	1588.4	1668.8	1767.8	1854.6	1860.3	1974.2	2001.3	1877.4
22.5°	1503.6	1497.9	1507.9	1554.2	1620.4	1727.9	1838.3	1859.6	1973.5	1997.0	1830.4
25°	1487.3	1505.8	1505.1	1551.3	1599.8	1695.9	1851.8	1875.3	2011.3	2019.1	1836.8
27.5°	1524.3	1522.2	1542.1	1545.6	1605.5	1704.4	1880.3	1898.1	2073.9	2067.5	1841.8
30°	1561.3	1550.6	1562.7	1604.7	1632.5	1753.5	1958.6	1957.2	2155.1	2150.8	1857.5
32.5°	1606.9	1601.9	1609.7	1646.7	1693.7	1819.0	2024.8	2066.8	2237.7	2264.7	1911.6
35°	1615.4	1636.1	1654.6	1704.4	1771.3	1925.1	2149.4	2184.3	2333.1	2417.8	2014.8
37.5°	1669.5	1677.4	1720.8	1809.1	1870.3	2066.8	2228.4	2250.5	2419.9	2516.0	2123.8
40°	1727.2	1736.5	1802.0	1894.5	1978.5	2159.4	2302.5	2309.6	2447.7	2591.5	2195.0
42.5°	1805.5	1814.1	1878.8	1994.9	2107.4	2238.4	2368.0	2375.8	2445.6	2678.4	2308.2
45°	1886.7	1907.3	1983.5	2115.2	2216.3	2330.9	2382.9	2414.9	2465.5	2756.0	2400.0
47.5°	2000.6	2019.8	2082.5	2211.3	2329.5	2412.1	2452.0	2483.3	2513.2	2823.6	2459.1
50°	2121.6	2125.2	2201.4	2318.1	2405.0	2503.9	2580.8	2591.5	2575.8	2901.9	2559.5
52.5°	2210.6	2222.0	2281.1	2395.0	2524.6	2646.3	2751.7	2763.1	2732.5	2931.1	2593.6
55°	2063.2	2056.8	2152.9	2304.6	2605.0	2858.5	3011.6	3020.1	2846.4	3021.5	2705.4
57.5°	1594.8	1625.4	1707.3	1890.2	2314.6	2952.5	3212.3	3181.7	2983.1	3067.1	2776.6
60°	1159.1	1151.9	1206.8	1329.2	1744.3	2544.5	3037.2	3068.5	2871.3	2764.5	2289.6
62.5°	944.0	934.1	938.4	942.6	1125.6	1688.8	2248.3	2247.6	2211.3	1987.1	1544.2
65°	754.7	778.2	780.3	812.3	835.8	1008.8	1302.9	1372.6	1195.4	980.4	711.2
67.5°	568.9	560.3	588.8	702.7	746.8	728.3	711.2	719.1	511.2	368.8	347.4
70°	335.3	331.8	365.9	489.8	615.1	578.8	536.1	536.8	351.0	257.7	286.9
72.5°	183.7	183.0	190.1	248.5	349.6	363.1	321.8	331.8	209.3	208.6	224.3
75°	102.5	100.4	98.2	109.6	126.0	133.1	136.0	137.4	143.8	160.9	167.3
77.5°	37.7	36.3	36.3	42.0	53.4	66.9	84.7	86.1	101.8	116.8	123.2
80°	12.8	14.2	19.2	26.3	35.6	47.7	57.7	59.1	71.9	81.9	84.0
82.5°	7.8	8.5	12.8	18.5	25.6	33.5	42.7	43.4	53.4	59.8	62.7
85°	3.6	4.3	7.1	11.4	16.4	22.1	22.8	22.8	22.1	22.8	21.4
87.5°	0.0	0.0	1.4	1.4	1.4	2.1	2.8	2.1	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°	2152.9	2152.9	2152.9	2152.9	2152.9	2152.9	2152.9	2152.9	2152.9	2152.9	2152.9
2.5°	2133.7	2125.9	2101.7	2080.3	2073.9	2045.4	2003.4	2008.4	1977.8	1992.0	1977.1
5°	2104.5	2078.2	2016.3	1989.9	1920.8	1889.5	1868.2	1814.8	1789.8	1784.9	1763.5
7.5°	2029.8	2013.4	1935.8	1864.6	1791.3	1728.6	1648.2	1593.4	1554.2	1543.5	1512.2
10°	1970.7	1934.4	1826.9	1718.7	1614.0	1505.1	1400.4	1318.5	1278.7	1232.4	1216.7
12.5°	1912.3	1857.5	1712.2	1573.4	1438.1	1300.7	1174.0	1074.3	987.5	966.8	959.7
15°	1876.0	1780.6	1609.7	1442.4	1250.2	1070.8	944.0	878.5	825.2	803.1	818.7
17.5°	1828.3	1717.2	1511.5	1288.6	1077.2	912.0	805.9	765.3	746.1	748.3	741.9
20°	1768.5	1657.4	1382.6	1149.1	922.7	791.0	730.5	715.5	718.4	723.3	721.2
22.5°	1725.8	1584.8	1289.3	1006.7	797.4	724.1	699.1	688.5	697.7	702.0	698.4
25°	1693.0	1522.9	1176.1	880.7	724.8	686.3	674.9	674.2	688.5	694.2	690.6
27.5°	1663.1	1465.2	1063.7	784.6	676.4	657.1	653.6	662.1	671.4	677.1	682.1
30°	1645.3	1421.1	958.3	704.1	652.1	642.9	636.5	644.3	649.3	655.0	652.1
32.5°	1662.4	1389.7	856.5	658.6	632.2	623.0	631.5	626.5	635.1	640.0	632.2
35°	1715.8	1362.0	783.9	634.4	609.4	613.0	614.4	612.3	615.8	611.6	620.8
37.5°	1768.5	1352.0	716.9	613.7	598.8	598.8	597.3	593.1	600.2	598.8	603.0
40°	1835.4	1358.4	660.0	591.6	588.8	587.4	581.7	581.0	578.1	578.8	580.2
42.5°	1893.8	1372.6	627.2	577.4	579.5	582.4	571.7	563.2	566.7	559.6	559.6
45°	1955.7	1385.5	598.0	567.4	565.3	564.6	556.0	551.1	548.2	548.9	555.3
47.5°	2053.3	1404.0	576.0	553.9	555.3	544.6	542.5	536.1	538.9	543.2	543.9
50°	2122.3	1443.1	558.9	538.2	543.2	536.1	523.3	520.4	520.4	527.6	526.1
52.5°	2170.7	1497.9	542.5	521.1	523.3	517.6	513.3	506.9	502.6	512.6	517.6
55°	2318.8	1589.1	538.2	506.9	506.2	500.5	492.7	486.3	484.1	485.6	495.5
57.5°	2304.6	1560.6	524.7	482.0	480.6	472.7	464.9	462.8	462.1	463.5	466.3
60°	1871.0	1152.7	468.5	453.5	451.4	450.0	442.1	433.6	429.3	433.6	430.0
62.5°	1238.1	771.8	412.9	419.3	420.8	417.2	404.4	395.8	397.3	402.3	394.4
65°	608.0	453.5	374.5	391.6	393.0	383.0	370.9	361.0	356.0	360.2	356.7
67.5°	347.4	346.7	343.2	361.0	360.2	350.3	331.1	322.5	314.0	315.4	313.3
70°	294.7	300.4	307.6	318.2	317.5	306.1	283.4	276.9	264.8	263.4	259.9
72.5°	232.1	242.1	257.7	265.6	259.2	244.9	230.0	219.3	208.6	202.2	204.3
75°	172.3	186.5	195.1	200.1	190.1	182.3	170.2	157.3	144.5	138.8	136.7
77.5°	125.3	129.6	137.4	141.0	134.6	126.7	119.6	106.8	94.7	86.9	84.7
80°	87.6	90.4	96.1	96.1	96.1	92.6	83.3	70.5	62.7	55.5	54.1
82.5°	61.2	64.1	69.8	66.9	66.2	61.9	56.2	46.3	37.7	32.7	31.3
85°	21.4	23.5	28.5	34.2	36.3	35.6	32.0	25.6	19.9	16.4	15.0
87.5°	5.0	5.0	5.7	5.0	5.0	5.7	5.0	5.0	5.0	3.6	2.8
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)