

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: P452198

Luminaire Tested: **GALN-SA3A-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10017 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

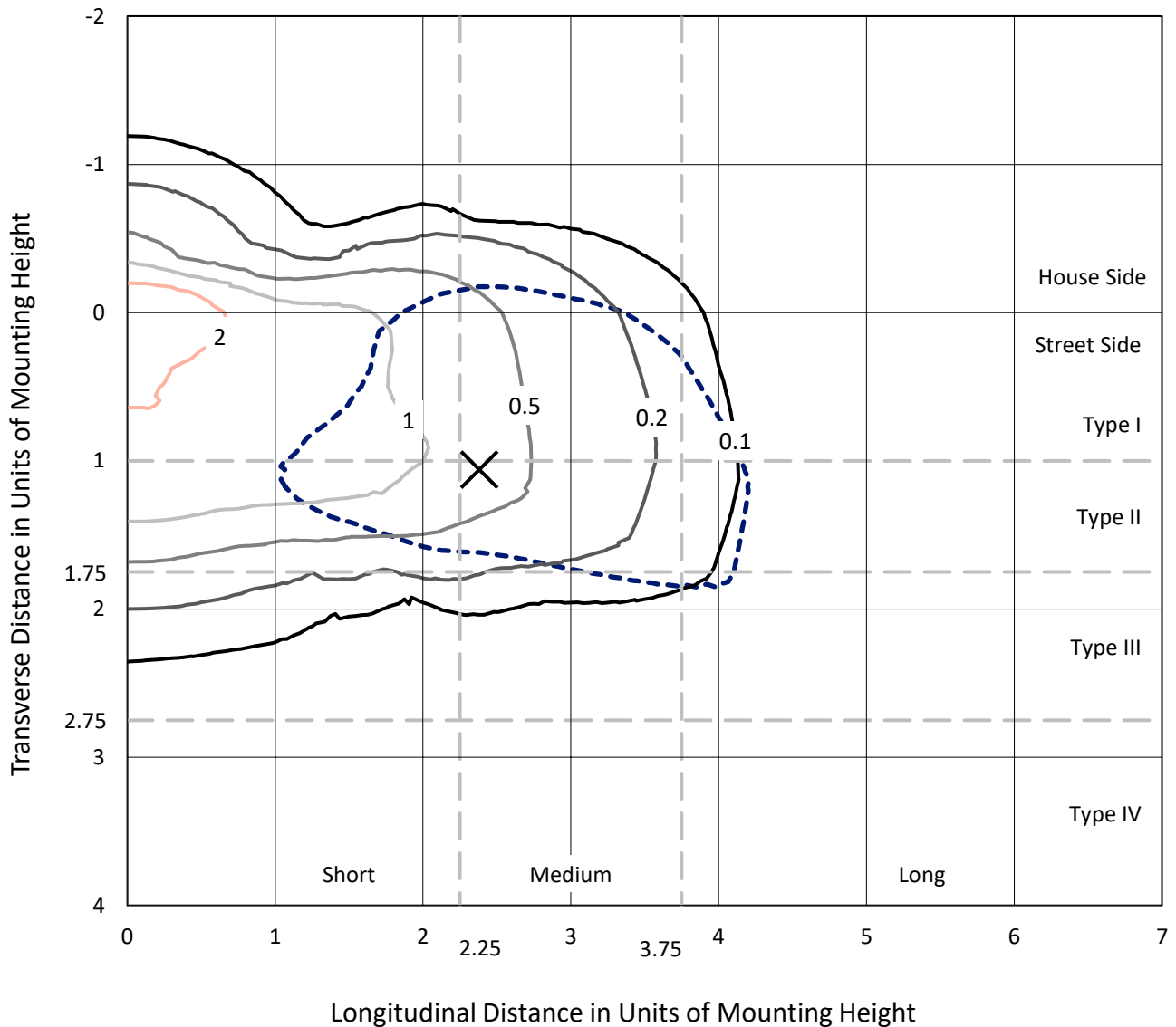
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

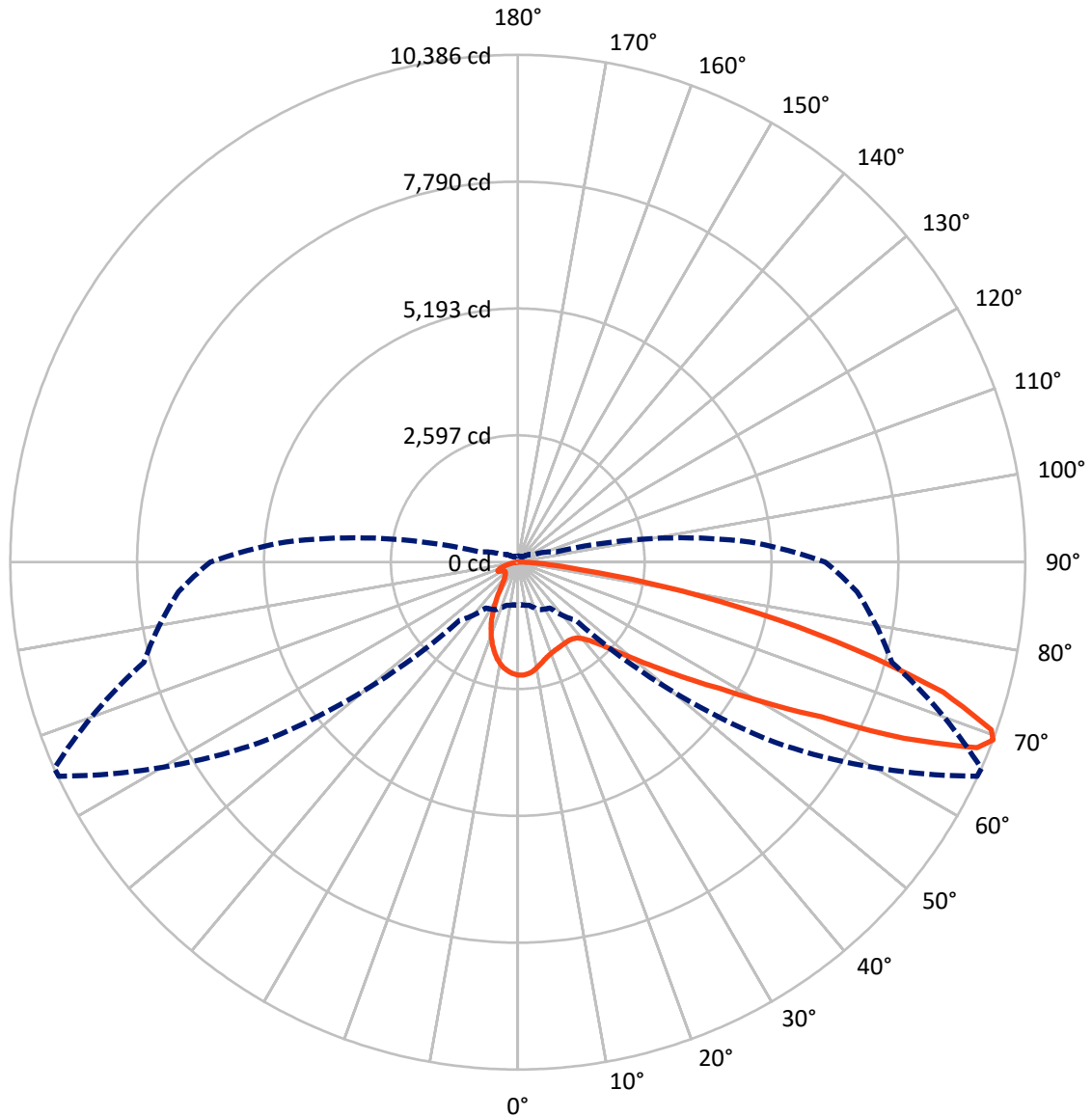
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1883.8	0.0	1883.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8133.2	0.0	8133.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	10017.0	0.0	10017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	2.0
10°-20°	476.5	4.8
20°-30°	648.6	6.5
30°-40°	871.6	8.7
40°-50°	1301.5	13.0
50°-60°	2070.2	20.7
60°-70°	2546.3	25.4
70°-80°	1656.7	16.5
80°-90°	244.7	2.4
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°	10017.0	100.0
0°-180°	10017.0	100.0

Coefficient of Utilization



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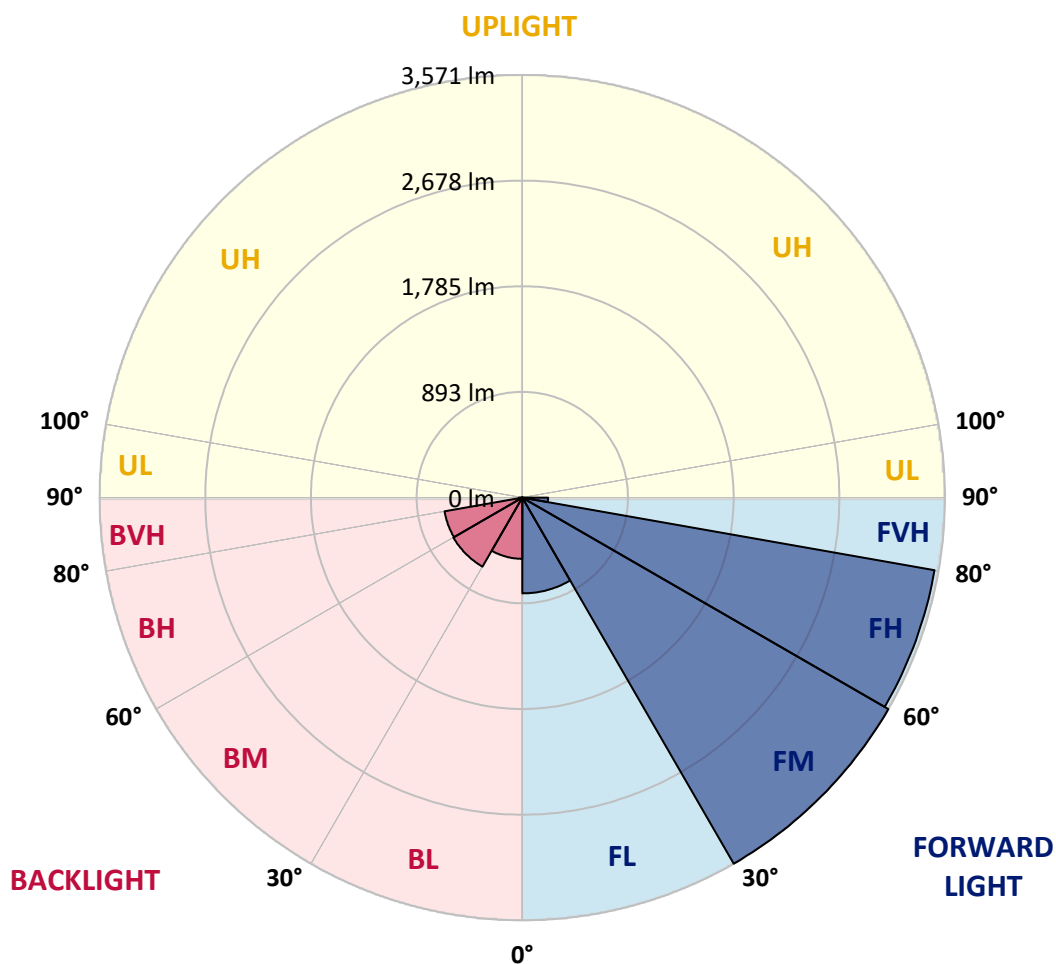
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	808.9	8.1			
FM	(30°-60°)	3570.8	35.6			
FH	(60°-80°)	3536.1	35.3			G2/5000
FVH	(80°-90°)	217.5	2.2			G2/225
BL	(0°-30°)	517.1	5.2	B2/1000		
BM	(30°-60°)	672.6	6.7	B1/1000		
BH	(60°-80°)	667.0	6.7	B2/1000		G2/1000
BVH	(80°-90°)	27.1	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2
2.5°	2232.2	2241.1	2251.1	2262.2	2283.2	2294.9	2303.2	2312.6	2313.8	2318.8	2314.9
5°	2067.5	2078.0	2093.0	2114.1	2145.7	2195.0	2246.1	2287.7	2292.7	2316.0	2322.6
7.5°	1929.9	1936.0	1948.2	1982.0	2027.0	2081.9	2156.2	2240.5	2252.7	2308.2	2327.6
10°	1817.8	1823.9	1838.4	1873.3	1917.7	1986.5	2068.0	2179.0	2188.9	2284.4	2328.7
12.5°	1734.1	1739.6	1755.2	1789.5	1840.6	1904.9	1994.8	2112.4	2126.8	2252.7	2318.2
15°	1670.3	1680.8	1693.6	1721.9	1775.7	1837.8	1924.9	2051.4	2063.0	2219.5	2311.0
17.5°	1643.1	1648.1	1657.0	1683.0	1722.4	1783.4	1871.1	2003.7	2017.5	2196.2	2309.3
20°	1644.2	1649.2	1650.9	1665.3	1693.6	1746.3	1832.8	1965.9	1982.6	2175.6	2312.1
22.5°	1681.9	1682.5	1676.4	1671.4	1682.5	1726.3	1805.6	1937.7	1957.1	2166.8	2314.3
25°	1740.2	1750.2	1741.3	1718.0	1697.5	1718.5	1795.1	1922.1	1940.4	2154.0	2311.5
27.5°	1834.5	1836.1	1828.9	1797.3	1744.1	1728.5	1790.7	1910.5	1926.0	2144.6	2297.7
30°	1961.0	1956.0	1949.3	1914.4	1830.6	1766.8	1800.1	1899.9	1916.0	2130.7	2281.0
32.5°	2089.1	2104.6	2098.5	2057.5	1948.7	1841.1	1830.6	1898.8	1912.1	2120.2	2262.7
35°	2225.0	2232.2	2261.1	2240.0	2128.5	1961.5	1887.7	1916.0	1926.6	2120.7	2250.0
37.5°	2331.5	2350.9	2418.6	2436.9	2332.1	2120.7	1980.4	1964.8	1969.3	2147.9	2255.0
40°	2460.2	2493.5	2580.6	2655.5	2586.7	2327.6	2137.9	2055.3	2060.8	2213.4	2287.7
42.5°	2623.3	2646.6	2763.6	2865.2	2854.1	2601.1	2328.7	2203.4	2206.1	2343.7	2379.2
45°	2814.1	2847.4	2978.9	3131.4	3157.5	2910.6	2604.4	2427.5	2425.8	2546.2	2550.1
47.5°	3058.2	3078.7	3209.1	3375.5	3480.9	3299.5	2938.9	2749.2	2731.5	2841.3	2809.7
50°	3282.9	3315.0	3413.8	3595.7	3858.1	3754.9	3378.8	3166.4	3124.8	3227.4	3174.1
52.5°	3377.2	3411.0	3494.2	3720.0	4181.5	4344.1	3937.4	3664.0	3594.6	3673.4	3654.0
55°	3213.5	3257.3	3335.0	3609.6	4323.5	5023.6	4690.8	4239.2	4188.7	4154.9	4160.4
57.5°	2773.6	2815.2	2920.1	3223.0	4153.8	5516.7	5766.4	4978.7	4870.5	4714.6	4741.2
60°	2111.3	2137.4	2191.7	2527.3	3650.6	5644.9	6987.9	5913.4	5844.6	5272.1	5291.0
62.5°	1499.4	1528.8	1566.5	1734.1	2672.7	5283.8	7944.2	7218.6	6972.9	5849.6	5831.3
65°	1217.6	1197.7	1243.1	1321.4	1568.2	4095.0	8159.5	9030.4	8692.0	6610.1	6356.0
67.5°	1001.3	980.2	1025.1	1164.4	1192.7	2377.0	7383.9	10206.4	10138.7	7437.2	6889.1
69°	886.5	875.4	914.7	1073.4	1145.0	1688.0	6432.6	10370.0	10386.1	7924.8	6971.2
70°	798.8	803.2	841.5	1027.4	1123.3	1391.8	5497.9	10144.3	10280.7	8168.3	6882.5
72.5°	588.0	597.4	650.7	850.9	1102.8	1181.0	3271.8	8860.6	9101.9	8182.7	6296.1
75°	411.1	406.6	453.8	640.7	1041.8	1170.5	1921.6	6852.5	7126.0	7072.7	5290.4
77.5°	269.0	276.3	314.0	452.7	876.5	1161.6	1252.6	4861.6	5039.1	4730.1	3129.2
80°	189.7	189.2	210.2	309.0	650.1	1116.1	1025.7	3064.3	3019.4	1858.9	928.1
82.5°	108.7	116.5	140.9	217.5	434.9	982.4	943.6	1465.6	1338.0	529.8	313.4
85°	60.5	63.2	83.8	131.5	254.1	740.0	823.8	666.8	629.1	221.3	134.8
87.5°	19.4	21.1	34.9	66.6	115.4	349.5	466.5	307.9	284.0	79.9	54.4
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°	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2
2.5°	2316.5	2323.2	2305.4	2288.2	2272.7	2251.1	2231.7	2215.6	2204.5	2202.8	2197.3
5°	2324.3	2324.9	2291.0	2245.5	2201.1	2152.3	2101.9	2065.8	2032.0	2013.1	2003.7
7.5°	2329.8	2324.9	2263.8	2190.1	2104.6	2015.9	1927.1	1856.1	1801.2	1779.6	1787.9
10°	2327.6	2312.1	2222.8	2104.6	1980.4	1847.8	1720.2	1620.4	1528.8	1481.7	1482.8
12.5°	2315.4	2289.9	2161.8	2008.7	1826.2	1648.6	1453.4	1318.6	1212.6	1149.9	1130.5
15°	2304.9	2260.5	2090.2	1878.3	1651.4	1397.9	1159.9	993.5	904.8	855.4	854.8
17.5°	2293.8	2232.2	2012.0	1740.2	1450.6	1124.4	874.8	747.8	706.2	711.2	702.8
20°	2282.1	2198.9	1930.4	1586.5	1206.0	838.7	655.1	603.5	615.2	637.9	641.3
22.5°	2268.8	2163.4	1842.8	1417.3	948.6	631.3	531.4	523.7	553.6	589.1	594.1
25°	2248.3	2119.0	1732.4	1240.4	731.7	508.7	465.4	471.0	500.4	530.3	533.6
27.5°	2219.5	2064.1	1620.9	1019.6	549.7	436.6	425.5	432.7	447.1	465.4	469.9
30°	2180.6	2002.0	1492.8	828.8	440.5	400.5	396.1	400.0	408.3	416.0	418.3
32.5°	2141.8	1942.1	1363.5	634.6	392.7	376.7	372.2	372.2	372.2	373.3	373.9
35°	2105.7	1885.5	1224.8	494.3	367.8	357.8	351.7	345.0	343.9	340.0	340.0
37.5°	2085.8	1833.9	1077.3	413.8	349.5	342.3	333.9	322.9	316.7	317.3	316.2
40°	2089.6	1800.1	943.0	368.3	334.5	326.7	314.0	301.2	297.3	297.3	296.2
42.5°	2133.5	1789.0	814.3	344.5	320.1	311.2	295.1	283.5	281.2	280.7	281.8
45°	2234.4	1816.2	699.0	329.0	307.9	294.6	278.5	267.9	265.7	265.7	265.2
47.5°	2431.4	1904.4	616.3	319.0	299.0	281.8	265.2	254.6	250.7	249.6	249.6
50°	2737.6	2095.8	554.7	310.1	287.9	270.2	253.0	240.8	234.6	234.1	233.5
52.5°	3163.0	2394.2	530.9	303.4	275.7	257.9	239.1	227.4	219.7	218.0	216.9
55°	3660.6	2810.8	563.6	298.4	262.9	244.1	224.7	212.5	205.2	201.9	201.4
57.5°	4237.0	3311.2	687.9	291.8	251.3	229.1	210.2	198.0	190.3	186.4	185.3
60°	4754.5	3825.4	904.8	287.9	241.3	213.0	193.6	182.5	175.3	171.4	170.9
62.5°	5323.1	4315.8	1163.8	298.4	236.9	197.5	178.1	168.1	162.0	158.1	158.1
65°	5930.6	4806.7	1335.2	333.9	243.5	185.3	161.4	153.1	147.6	144.8	144.2
67.5°	6340.0	4976.4	1100.0	370.6	260.2	172.0	145.3	138.7	135.4	132.6	132.6
69°	6295.6	4761.8	811.6	380.0	265.2	165.3	136.5	131.5	127.0	125.9	124.8
70°	6155.2	4517.1	680.1	373.9	261.3	159.2	130.9	124.8	120.9	119.8	119.3
72.5°	5482.3	3917.5	506.5	325.1	222.4	138.1	115.9	110.4	107.1	105.4	105.4
75°	4554.8	3201.9	395.5	258.5	174.2	116.5	99.3	94.9	92.1	91.0	90.4
77.5°	2552.8	1787.9	284.0	202.5	132.0	94.3	83.2	79.3	76.6	75.4	75.4
80°	711.2	510.9	167.0	133.7	89.9	71.6	66.0	63.2	59.4	56.6	58.2
82.5°	267.9	221.3	95.4	80.4	57.1	47.7	46.0	43.8	42.2	38.3	38.3
85°	130.4	107.6	61.0	42.7	31.6	25.0	23.9	22.7	21.6	18.9	19.4
87.5°	44.9	47.7	26.6	15.5	9.4	6.1	5.0	2.8	2.8	2.8	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)