

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: P527465

Luminaire Tested: **GALN-SA2C-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7191 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

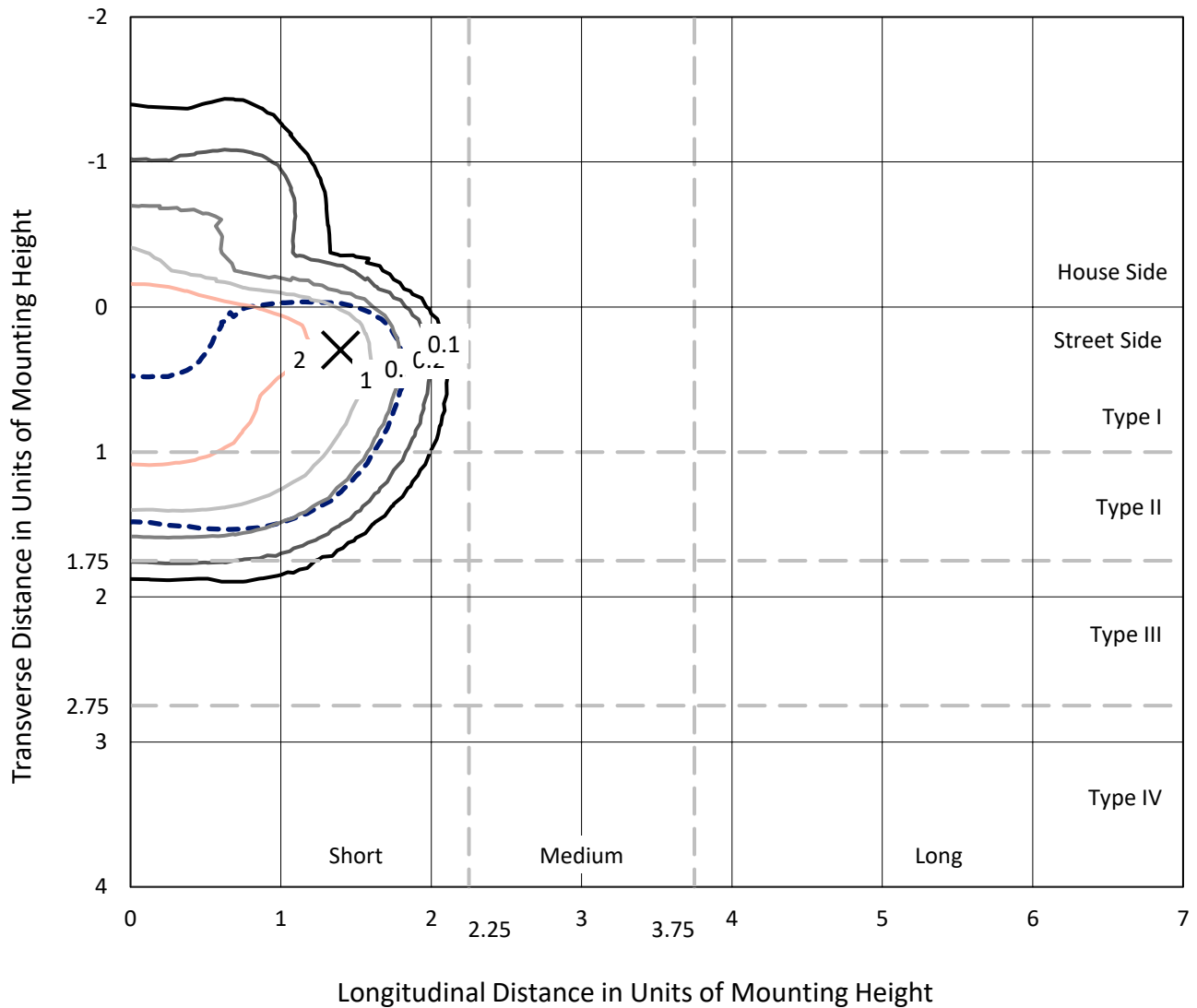
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

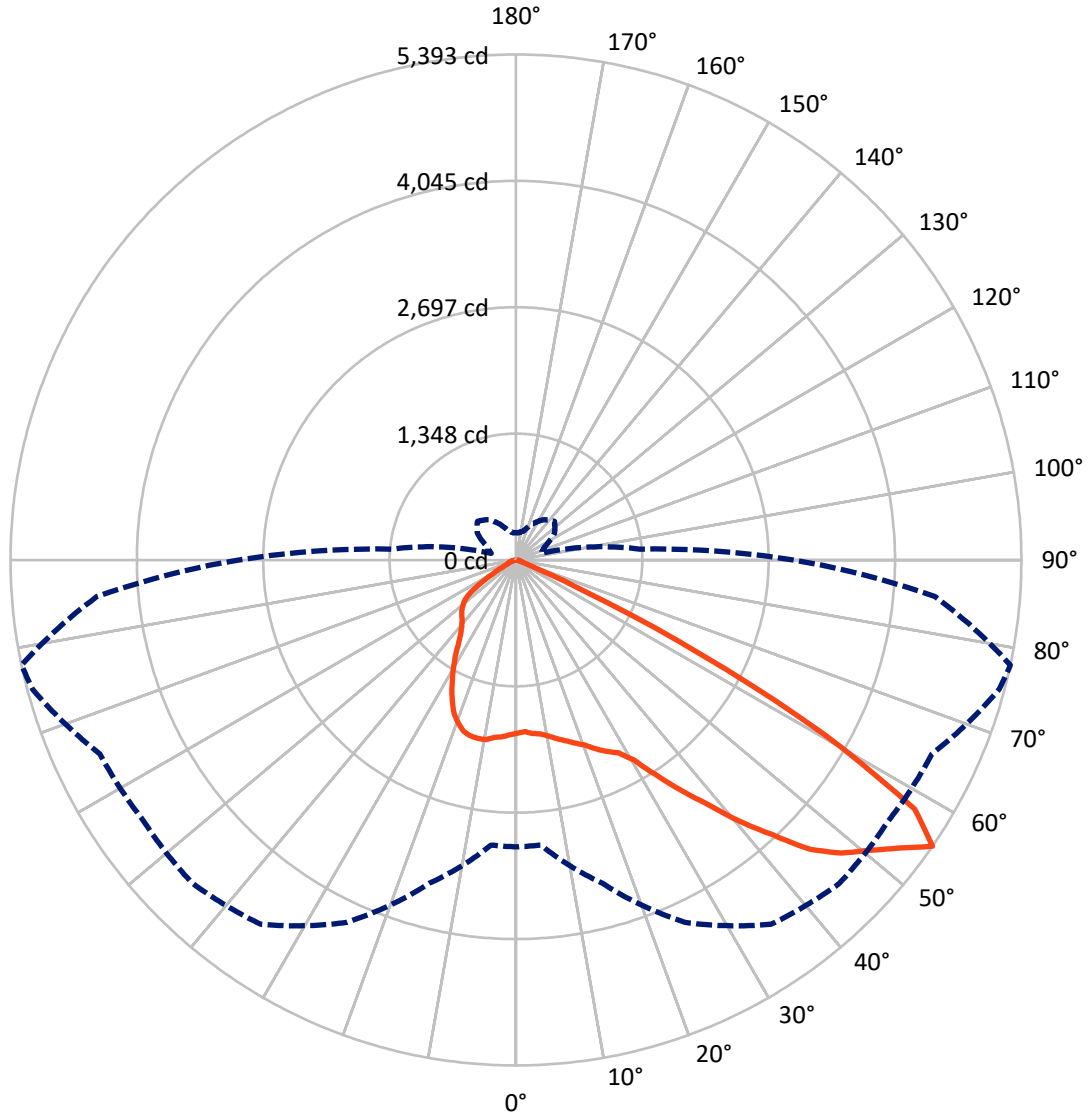
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical



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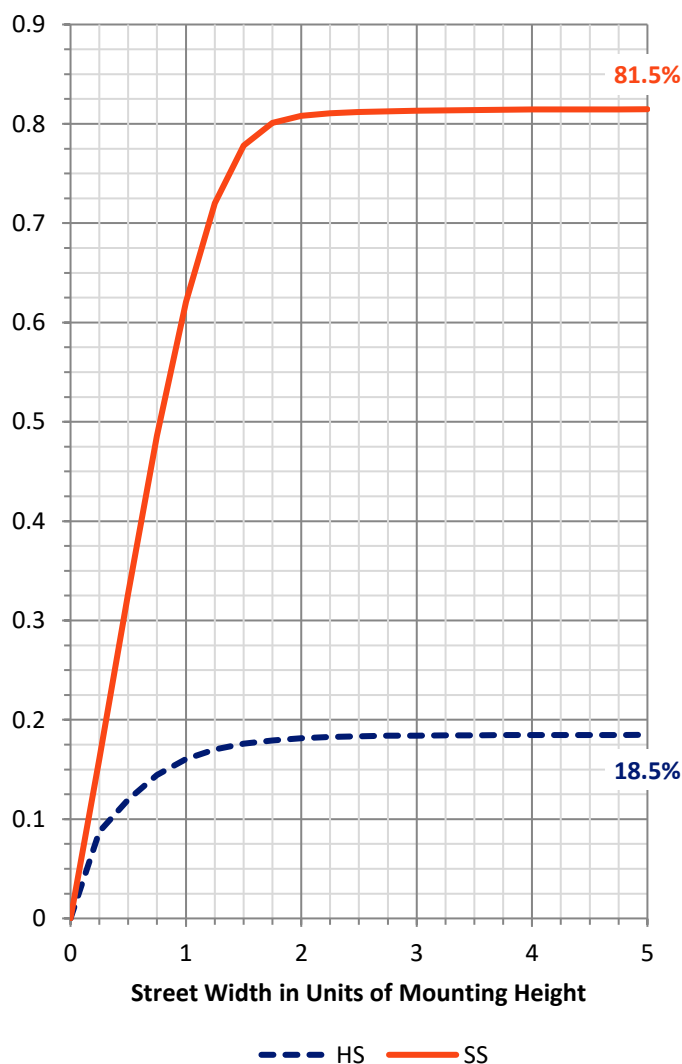
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1335.7	0.0	1335.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5855.4	0.0	5855.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	7191.0	0.0	7191.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	2.3
10°-20°	436.3	6.1
20°-30°	764.7	10.6
30°-40°	1261.0	17.5
40°-50°	1834.9	25.5
50°-60°	2079.1	28.9
60°-70°	594.4	8.3
70°-80°	46.2	0.6
80°-90°	9.6	0.1
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°	7191.0	100.0
0°-180°	7191.0	100.0

Coefficient of Utilization



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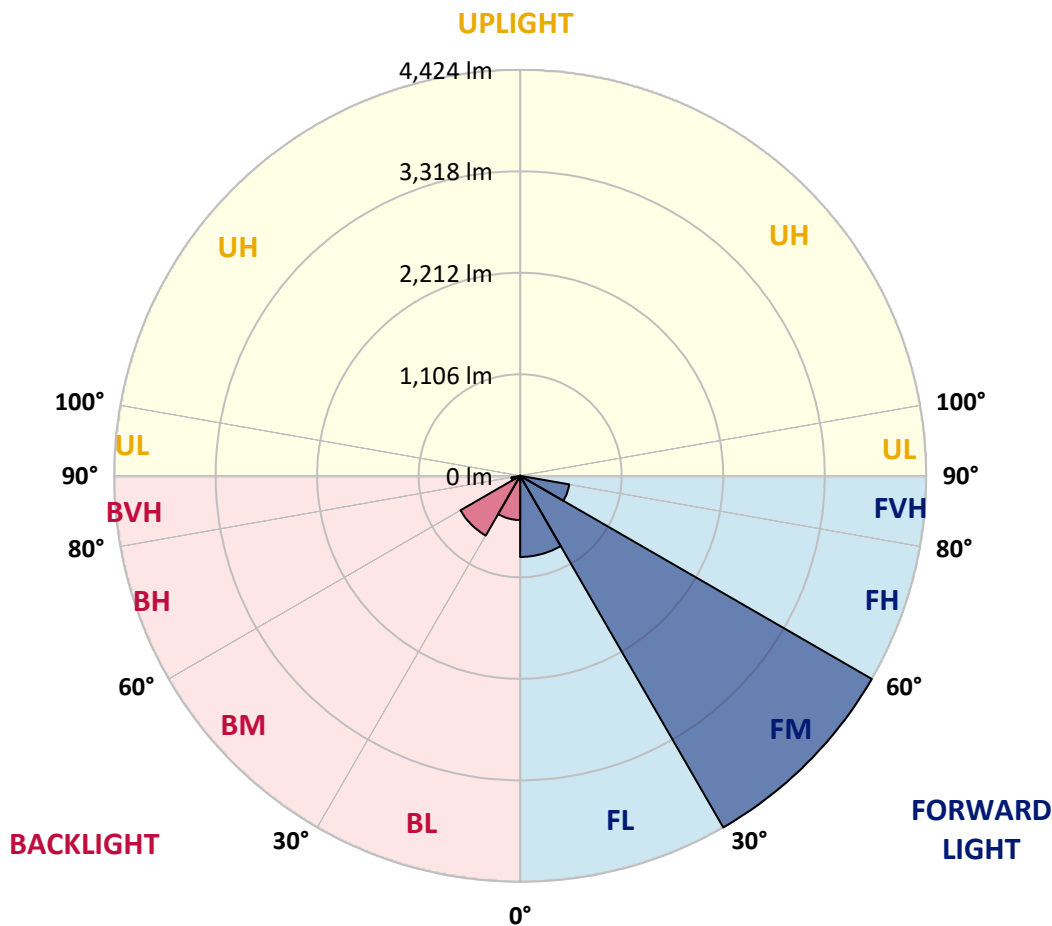
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	884.0	12.3			
FM (30°-60°)	4423.6	61.5			
FH (60°-80°)	543.1	7.6			G0/660
FVH (80°-90°)	4.7	0.1			G0/10
BL (0°-30°)	481.9	6.7	B1/500		
BM (30°-60°)	751.3	10.4	B1/1000		
BH (60°-80°)	97.5	1.4	B0/110		G0/110
BVH (80°-90°)	4.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8
2.5°	1738.2	1755.0	1757.5	1778.1	1776.8	1811.5	1821.8	1823.1	1846.2	1834.7	1864.2
5°	1689.4	1680.4	1676.5	1712.5	1722.8	1753.7	1779.4	1794.8	1842.4	1859.1	1890.0
7.5°	1645.7	1645.7	1648.2	1680.4	1676.5	1716.4	1743.4	1791.0	1860.4	1874.5	1911.8
10°	1603.2	1587.8	1607.1	1640.5	1668.8	1686.8	1743.4	1788.4	1869.4	1910.5	1962.0
12.5°	1581.4	1589.1	1591.7	1616.1	1647.0	1701.0	1731.8	1806.4	1933.7	1958.1	2013.4
15°	1719.0	1703.5	1666.2	1644.4	1670.1	1695.8	1773.0	1848.8	1967.1	2001.8	2063.5
17.5°	1878.4	1865.5	1834.7	1775.5	1717.7	1765.2	1825.7	1895.1	2003.1	2054.5	2145.8
20°	2086.7	2066.1	2035.2	1919.5	1869.4	1818.0	1882.2	1964.5	2062.2	2108.5	2202.4
22.5°	2334.8	2334.8	2265.4	2125.2	2021.1	1972.2	1999.2	2046.8	2127.8	2190.8	2283.4
25°	2593.2	2585.5	2522.5	2377.2	2201.1	2143.2	2174.1	2207.5	2229.4	2264.1	2325.8
27.5°	2888.9	2843.9	2764.2	2603.5	2447.9	2336.1	2369.5	2339.9	2312.9	2330.9	2419.7
30°	3089.5	3117.8	3016.2	2861.9	2715.4	2590.6	2597.1	2571.4	2447.9	2473.7	2526.4
32.5°	3297.8	3315.8	3259.2	3174.3	3027.8	2882.5	2829.8	2807.9	2715.4	2726.9	2675.5
35°	3471.3	3506.1	3455.9	3418.6	3376.2	3259.2	3113.9	3184.6	3035.5	3007.2	2873.5
37.5°	3630.8	3620.5	3679.6	3641.1	3632.1	3549.8	3390.3	3404.5	3304.2	3297.8	3143.5
40°	3773.5	3776.0	3857.0	3875.0	3839.0	3692.5	3461.1	3572.9	3653.9	3661.6	3463.6
42.5°	3891.8	3926.5	3995.9	4141.2	4087.2	3842.9	3534.3	3656.5	3957.3	4004.9	3767.0
45°	3994.6	4065.3	4151.5	4281.3	4250.5	4056.3	3716.9	3828.8	4281.3	4406.0	4052.5
47.5°	4001.0	4093.6	4187.5	4380.3	4418.9	4170.8	3905.9	4101.3	4538.5	4673.5	4260.7
50°	3975.3	4024.2	4211.9	4421.5	4508.9	4357.2	4170.8	4330.2	4787.9	4872.7	4366.2
52.5°	3670.6	3707.9	4084.6	4460.0	4670.9	4568.0	4521.7	4649.0	5042.4	5105.4	4465.2
55°	3059.9	3053.5	3571.6	4265.9	4745.5	4880.4	4852.2	4897.2	5336.9	5393.4	4489.6
57.5°	2093.1	2210.1	2657.5	3552.3	4289.0	4807.2	4836.7	4762.2	4993.6	5015.4	3913.6
60°	1128.8	1177.7	1537.7	2370.8	3265.6	3917.5	3994.6	3859.6	3841.6	3779.9	2793.8
62.5°	448.7	473.1	677.6	1173.8	1779.4	2381.1	2546.9	2491.7	2373.4	2211.4	1446.4
65°	213.4	228.9	336.8	549.0	789.4	992.5	1158.4	1209.8	892.3	803.6	477.0
67.5°	145.3	156.9	245.6	313.7	281.6	294.4	383.1	356.1	209.6	178.7	132.4
70°	110.6	118.3	196.7	213.4	126.0	88.7	99.0	92.6	86.1	87.4	86.1
72.5°	78.4	84.9	144.0	126.0	55.3	41.1	52.7	63.0	63.0	63.0	61.7
75°	47.6	54.0	83.6	48.9	21.9	21.9	33.4	42.4	45.0	46.3	43.7
77.5°	24.4	30.9	28.3	14.1	14.1	16.7	24.4	29.6	32.1	32.1	30.9
80°	5.1	5.1	5.1	7.7	14.1	18.0	24.4	27.0	30.9	30.9	28.3
82.5°	0.0	1.3	3.9	7.7	12.9	16.7	23.1	27.0	30.9	32.1	29.6
85°	0.0	1.3	2.6	5.1	9.0	10.3	9.0	7.7	7.7	7.7	7.7
87.5°	0.0	0.0	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6
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°	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8
2.5°	1866.8	1870.7	1864.2	1863.0	1857.8	1873.2	1836.0	1827.0	1850.1	1828.2	1833.4
5°	1891.2	1900.2	1888.7	1869.4	1841.1	1797.4	1760.1	1711.2	1688.1	1671.4	1668.8
7.5°	1909.2	1915.7	1904.1	1842.4	1757.5	1647.0	1564.7	1504.2	1456.7	1442.5	1419.4
10°	1982.5	1983.8	1926.0	1789.7	1623.8	1478.5	1352.5	1260.0	1212.4	1182.8	1170.0
12.5°	2031.4	2028.8	1911.8	1685.5	1464.4	1271.5	1127.5	1015.7	972.0	957.8	948.8
15°	2093.1	2078.9	1878.4	1578.8	1258.7	1050.4	920.5	843.4	839.6	830.6	839.6
17.5°	2141.9	2102.1	1829.5	1384.7	1062.0	865.3	780.4	785.6	795.8	804.8	806.1
20°	2221.7	2139.4	1717.7	1215.0	879.4	741.8	740.6	763.7	789.4	799.7	810.0
22.5°	2282.1	2154.8	1598.1	1033.7	730.3	691.7	713.6	748.3	767.6	777.8	793.3
25°	2303.9	2112.4	1438.7	852.4	658.3	668.6	702.0	725.1	749.6	761.1	754.7
27.5°	2325.8	2090.5	1248.4	702.0	619.7	653.1	681.4	704.6	712.3	727.7	738.0
30°	2378.5	2014.7	1077.4	606.8	600.4	642.8	663.4	671.1	691.7	700.7	700.7
32.5°	2420.9	1985.1	896.1	561.8	597.8	648.0	650.6	650.6	653.1	646.7	644.1
35°	2508.4	1883.5	734.1	534.8	596.6	649.3	655.7	633.8	574.7	551.6	545.1
37.5°	2616.4	1818.0	614.6	528.4	605.6	664.7	675.0	592.7	515.6	478.3	471.8
40°	2747.5	1771.7	536.1	525.8	626.1	700.7	669.8	560.6	460.3	406.3	403.7
42.5°	2900.5	1729.2	483.4	524.6	651.8	738.0	664.7	533.6	403.7	367.7	372.8
45°	3022.6	1706.1	447.4	515.6	660.8	759.8	668.6	486.0	380.6	357.4	360.0
47.5°	3117.8	1657.2	417.8	500.1	659.6	767.6	633.8	466.7	369.0	375.4	381.8
50°	3120.3	1591.7	380.6	466.7	640.3	753.4	594.0	448.7	366.4	393.4	406.3
52.5°	3085.6	1499.1	340.7	419.1	595.3	704.6	558.0	441.0	354.8	352.3	367.7
55°	2962.2	1325.5	273.9	339.4	502.7	581.1	525.8	426.8	320.1	290.6	293.1
57.5°	2393.9	950.1	201.9	243.0	356.1	425.6	474.4	420.4	288.0	246.9	248.1
60°	1482.4	538.7	147.9	165.9	219.9	258.4	384.4	390.8	257.1	208.3	205.7
62.5°	761.1	266.1	114.4	117.0	135.0	151.7	263.6	327.8	232.7	198.0	198.0
65°	254.6	131.1	100.3	90.0	90.0	93.9	159.4	227.6	196.7	165.9	165.9
67.5°	109.3	97.7	87.4	78.4	72.0	68.1	90.0	132.4	146.6	126.0	120.9
70°	84.9	82.3	75.9	65.6	56.6	51.4	52.7	68.1	83.6	81.0	78.4
72.5°	63.0	63.0	60.4	51.4	43.7	37.3	34.7	36.0	39.9	41.1	42.4
75°	43.7	45.0	45.0	39.9	32.1	27.0	23.1	19.3	15.4	12.9	11.6
77.5°	29.6	30.9	33.4	29.6	24.4	18.0	14.1	10.3	6.4	2.6	2.6
80°	25.7	29.6	32.1	29.6	25.7	19.3	14.1	7.7	3.9	0.0	0.0
82.5°	27.0	29.6	33.4	28.3	24.4	18.0	14.1	9.0	3.9	1.3	0.0
85°	6.4	6.4	7.7	9.0	11.6	12.9	10.3	6.4	3.9	1.3	0.0
87.5°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	0.0	0.0
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)