

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: P526979

Luminaire Tested: **GALN-SA2A-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5737 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

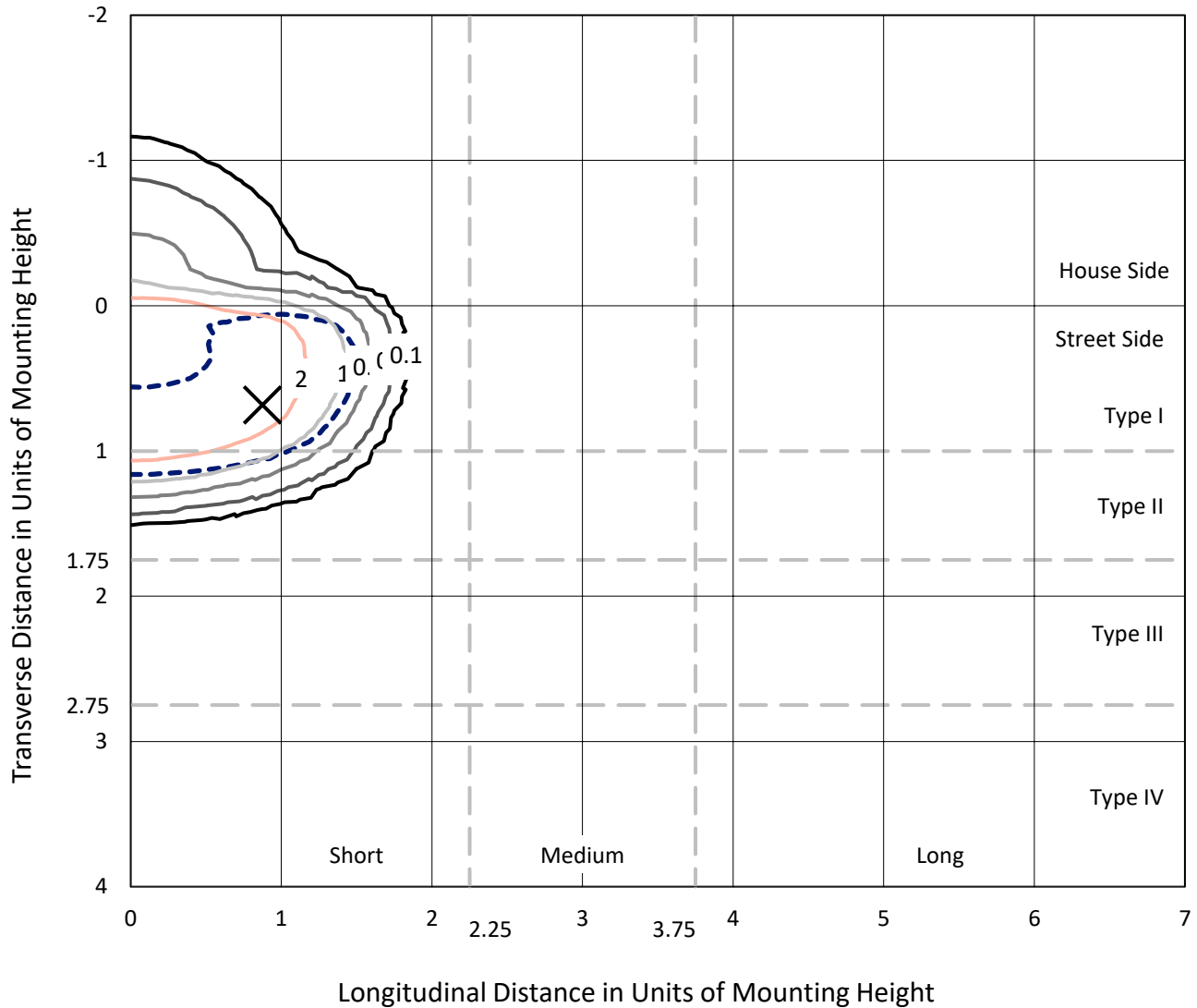
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

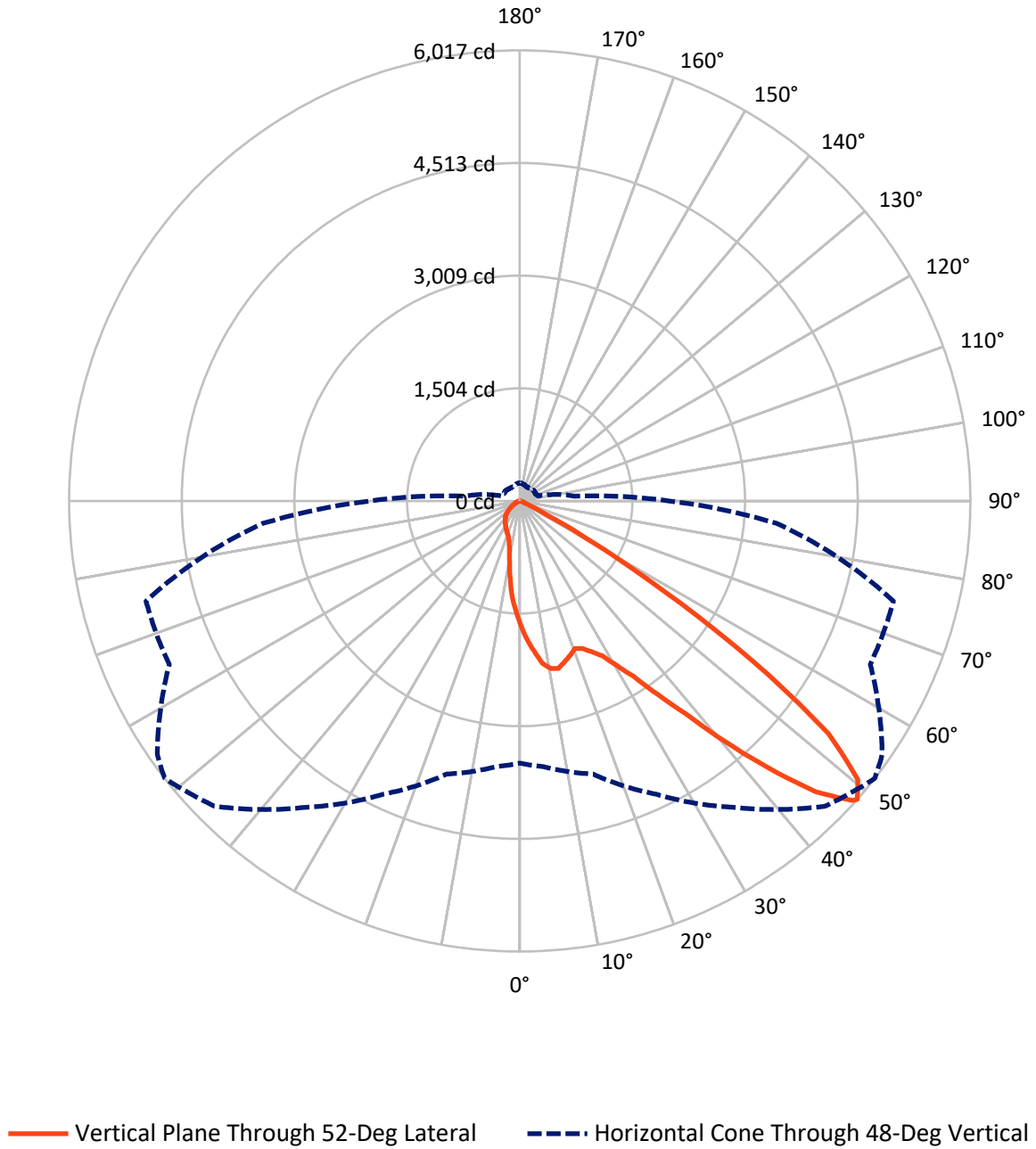
✕ Max cd
 - - - 1/2 Max cd



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



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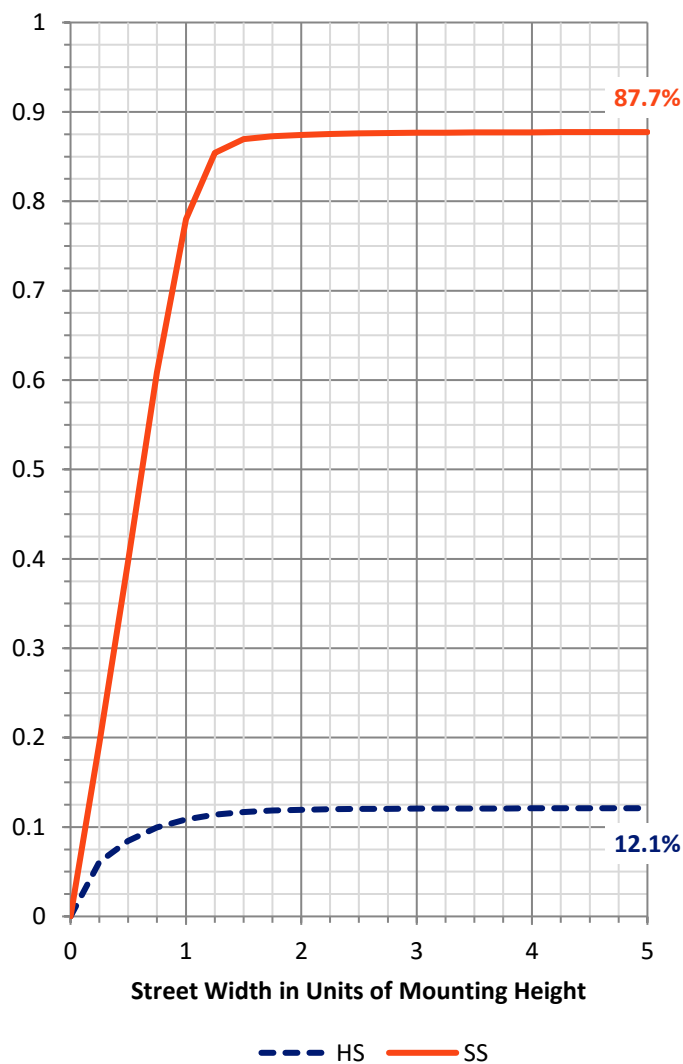
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	698.5	0.0	698.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	5038.5	0.0	5038.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	5737.0	0.0	5737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	2.6
10°-20°	396.3	6.9
20°-30°	676.6	11.8
30°-40°	1246.0	21.7
40°-50°	1935.1	33.7
50°-60°	1164.6	20.3
60°-70°	134.7	2.3
70°-80°	26.1	0.5
80°-90°	6.0	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°	5737.0	100.0
0°-180°	5737.0	100.0

Coefficient of Utilization



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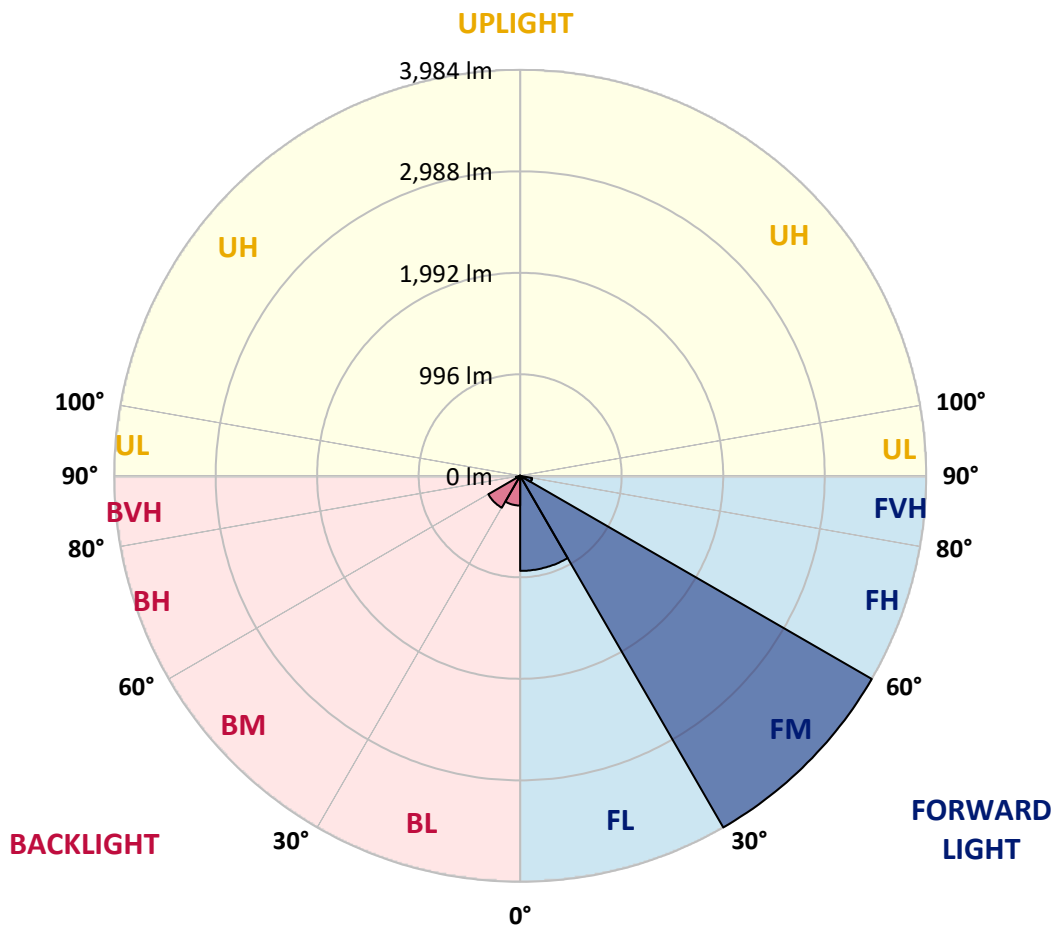
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	932.8	16.3			
FM (30°-60°)	3984.2	69.4			
FH (60°-80°)	118.6	2.1			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	291.8	5.1	B1/500		
BM (30°-60°)	361.4	6.3	B1/1000		
BH (60°-80°)	42.2	0.7	B0/110		G0/110
BVH (80°-90°)	3.2	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°	52°	55°	65°	75°	85°
0°	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8
2.5°	2008.0	1962.0	1966.2	1936.1	1918.5	1890.1	1851.6	1844.1	1802.3	1745.4	1687.7
5°	2188.6	2177.8	2192.0	2148.5	2150.2	2103.3	2013.0	2014.7	1918.5	1825.7	1736.2
7.5°	2200.4	2175.3	2189.5	2228.0	2250.5	2242.2	2191.2	2146.8	2055.7	1919.4	1788.9
10°	1970.4	2018.0	2033.1	2096.7	2187.0	2282.3	2276.5	2279.0	2202.9	2024.7	1834.1
12.5°	1832.4	1800.6	1851.6	1890.1	2026.4	2211.2	2295.7	2314.1	2320.0	2126.8	1879.2
15°	1769.7	1769.7	1778.0	1788.9	1887.6	2058.2	2230.5	2284.0	2410.3	2260.6	1950.3
17.5°	1809.0	1807.3	1819.0	1796.4	1833.2	1964.5	2170.3	2231.3	2511.5	2391.9	2006.3
20°	1928.6	1934.4	1926.9	1861.6	1864.2	1962.8	2103.3	2199.5	2580.0	2505.6	2080.8
22.5°	2095.0	2098.3	2055.7	1984.6	1963.7	2012.2	2141.8	2215.4	2635.2	2641.9	2103.3
25°	2287.3	2274.0	2265.6	2165.2	2101.7	2143.5	2228.8	2271.4	2669.5	2759.0	2167.7
27.5°	2554.1	2527.4	2476.3	2386.9	2340.0	2280.6	2341.7	2411.9	2767.4	2922.9	2238.0
30°	2948.0	2924.6	2825.1	2709.7	2586.7	2528.2	2547.4	2585.9	2943.8	3112.8	2330.8
32.5°	3541.0	3491.6	3347.8	3127.8	2960.6	2799.2	2794.1	2835.1	3101.9	3375.4	2441.2
35°	4194.1	4179.1	3967.5	3740.9	3417.2	3168.0	3172.2	3193.9	3404.7	3720.0	2585.9
37.5°	4628.2	4711.0	4576.3	4333.0	4061.2	3704.9	3614.6	3622.1	3820.3	4128.1	2846.8
40°	4963.6	4893.3	4909.2	4852.3	4666.7	4424.1	4224.3	4184.9	4301.2	4579.7	3106.1
42.5°	4817.2	4820.5	4918.4	5053.0	5099.0	5081.5	4877.4	4803.0	4712.7	4949.3	3352.8
45°	4404.1	4490.2	4617.3	4973.6	5286.4	5579.9	5539.8	5416.0	4997.0	5242.1	3495.0
47.5°	3745.0	3741.7	3949.9	4413.3	5108.2	5795.7	5978.0	5891.0	5198.6	5209.4	3465.7
48°	3501.7	3561.9	3776.8	4322.1	4995.3	5763.9	6017.3	5907.8	5164.3	5165.9	3440.6
50°	2588.4	2577.5	2845.2	3514.2	4461.8	5416.0	5851.7	5937.0	5163.4	4946.0	3265.0
52.5°	1367.4	1414.2	1609.1	2209.6	3154.6	4432.5	5161.8	5294.7	4981.1	4586.4	3012.4
55°	581.2	525.2	674.9	997.7	1774.7	2961.4	3786.9	4082.9	4211.7	4058.7	2635.2
57.5°	207.4	226.6	260.9	375.5	746.0	1620.8	2258.1	2488.1	2917.9	2978.1	1795.6
60°	133.0	135.5	146.4	172.3	280.2	624.7	1071.3	1254.5	1449.3	1496.2	838.0
62.5°	102.9	103.7	108.7	112.9	133.0	242.5	402.3	476.7	495.1	425.7	220.0
65°	86.1	87.0	88.6	88.6	94.5	113.7	140.5	154.7	150.5	148.9	124.6
67.5°	66.1	67.7	71.1	71.1	74.4	69.4	77.8	82.8	93.7	113.7	106.2
70°	51.9	52.7	55.2	56.9	56.9	50.2	56.0	61.1	68.6	84.5	83.6
72.5°	40.1	41.8	43.5	43.5	41.0	34.3	40.1	44.3	49.3	58.5	56.9
75°	30.9	30.9	31.8	25.9	20.1	17.6	24.3	29.3	36.8	38.5	31.8
77.5°	8.4	9.2	8.4	7.5	8.4	12.5	15.9	18.4	23.4	23.4	20.9
80°	0.0	0.8	2.5	5.0	8.4	11.7	14.2	15.9	18.4	20.1	19.2
82.5°	0.0	0.8	2.5	5.0	7.5	9.2	12.5	13.4	15.1	17.6	17.6
85°	0.0	0.8	1.7	3.3	5.0	5.9	5.9	5.0	5.0	4.2	3.3
87.5°	0.0	0.0	0.8	1.7	1.7	2.5	2.5	2.5	2.5	2.5	2.5
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°	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8	1656.8
2.5°	1665.1	1639.2	1599.9	1538.0	1478.6	1440.1	1403.3	1362.4	1339.8	1338.1	1325.6
5°	1685.2	1626.6	1533.0	1426.8	1313.0	1215.2	1116.5	1052.1	994.4	962.6	956.8
7.5°	1696.1	1620.0	1468.6	1290.4	1096.4	936.7	826.3	745.2	713.4	690.0	689.1
10°	1718.6	1608.2	1372.4	1109.8	869.8	708.4	632.3	595.5	577.9	571.2	561.2
12.5°	1735.4	1586.5	1273.7	924.1	687.5	587.1	553.6	545.3	546.1	549.5	545.3
15°	1758.8	1567.3	1140.7	758.5	577.1	528.6	528.6	530.2	541.9	543.6	542.8
17.5°	1757.1	1529.6	1003.6	624.7	510.2	503.5	506.0	521.9	529.4	531.9	526.0
20°	1777.2	1494.5	862.2	533.6	472.5	482.6	499.3	503.5	512.7	514.3	507.6
22.5°	1771.3	1406.7	730.9	461.6	444.1	463.3	480.0	485.1	482.6	477.5	476.7
25°	1760.5	1331.4	610.5	414.0	423.2	444.1	460.0	450.8	445.8	446.6	447.4
27.5°	1741.2	1236.1	511.0	380.5	394.7	425.7	424.9	421.5	426.5	422.3	426.5
30°	1737.9	1140.7	429.0	350.4	373.8	396.4	398.1	403.9	409.8	402.3	409.8
32.5°	1742.9	1036.2	370.5	332.0	361.3	362.1	380.5	386.4	382.2	365.5	367.1
35°	1781.4	955.9	327.8	322.0	341.2	342.1	359.6	352.1	333.7	323.7	329.5
37.5°	1862.5	889.0	307.8	312.8	314.5	325.3	326.2	311.1	312.8	311.9	315.3
40°	1966.2	838.0	293.5	304.4	302.7	310.3	280.2	288.5	296.1	298.6	300.2
42.5°	2037.3	801.2	284.3	291.0	287.7	274.3	257.6	265.9	271.8	281.0	282.7
45°	2069.1	771.9	273.5	267.6	267.6	243.4	236.7	238.4	251.7	261.8	260.1
47.5°	2017.2	743.5	254.2	236.7	242.5	222.5	214.9	214.9	229.2	241.7	239.2
48°	1997.1	731.8	255.1	230.0	234.2	219.1	211.6	209.9	225.8	237.5	237.5
50°	1897.6	688.3	233.3	211.6	203.2	201.6	196.5	198.2	208.2	219.1	219.1
52.5°	1703.6	594.6	197.4	181.5	166.4	176.5	179.0	175.6	180.6	190.7	189.8
55°	1421.7	456.6	158.1	150.5	138.8	149.7	154.7	150.5	145.5	153.0	153.0
57.5°	910.8	245.9	126.3	128.0	116.2	127.1	131.3	121.3	112.1	117.9	117.1
60°	410.6	147.2	103.7	101.2	93.7	106.2	112.9	101.2	88.6	92.8	97.0
62.5°	153.9	104.5	78.6	76.9	75.3	87.0	90.3	81.1	68.6	71.1	71.9
65°	112.9	92.0	62.7	56.9	60.2	68.6	66.9	57.7	49.3	49.3	51.0
67.5°	96.2	80.3	51.0	44.3	44.3	45.2	41.8	36.8	34.3	36.0	37.6
70°	75.3	63.6	40.1	34.3	30.9	27.6	24.3	23.4	20.9	23.4	22.6
72.5°	48.5	42.7	30.9	25.9	23.4	19.2	15.9	15.1	12.5	11.7	11.7
75°	25.9	25.9	24.3	20.9	18.4	15.1	12.5	10.0	6.7	5.0	5.0
77.5°	18.4	20.1	21.7	20.1	16.7	12.5	10.0	6.7	3.3	1.7	1.7
80°	17.6	20.1	21.7	19.2	16.7	12.5	9.2	5.0	2.5	0.8	0.8
82.5°	15.9	18.4	20.1	17.6	15.1	10.9	8.4	5.0	2.5	0.8	0.8
85°	3.3	4.2	5.0	5.0	5.9	7.5	5.9	4.2	1.7	0.8	0.8
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7	0.8	0.8	0.8
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)