

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: P451621

Luminaire Tested: **GALN-SA2C-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10591 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

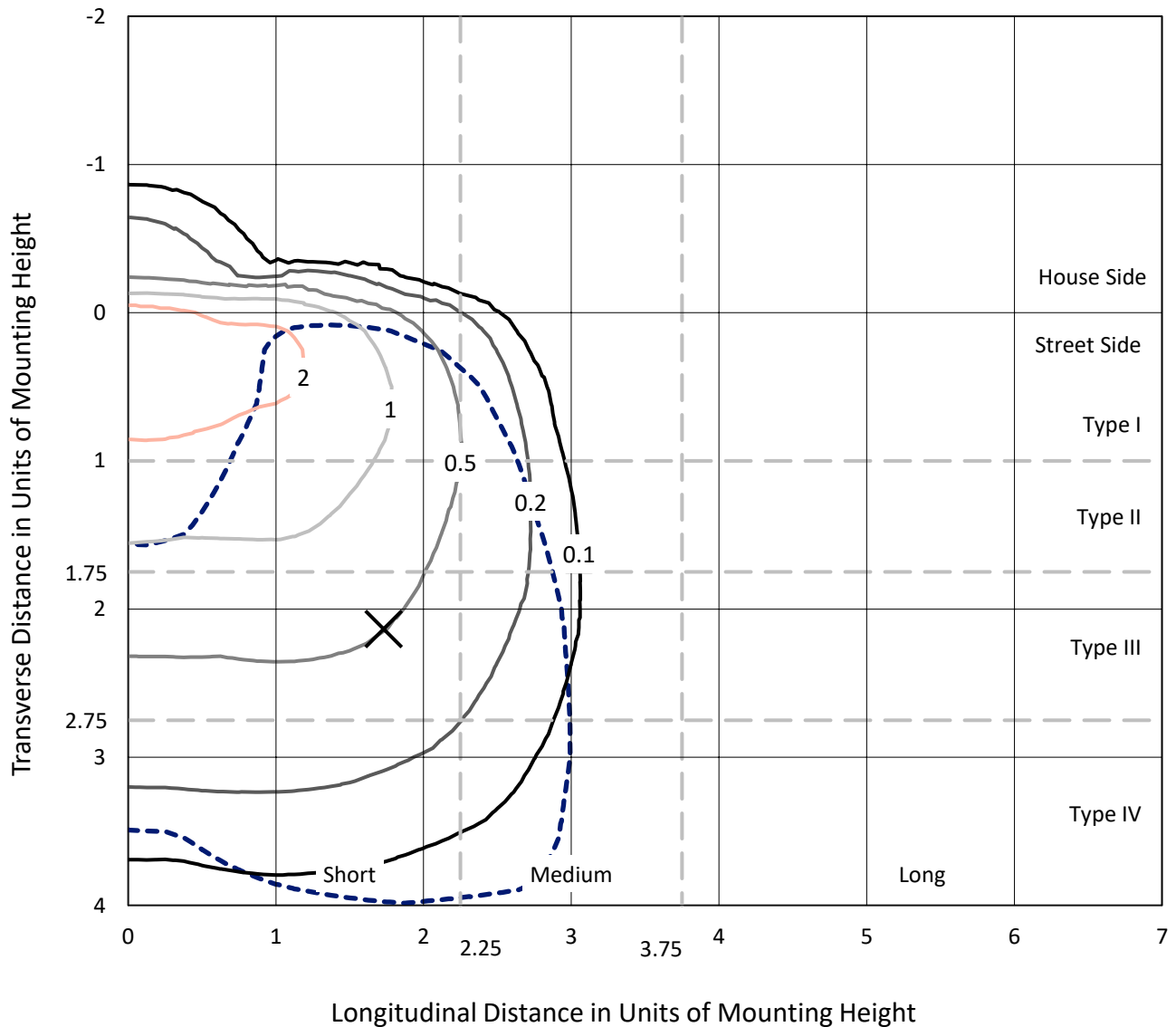
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

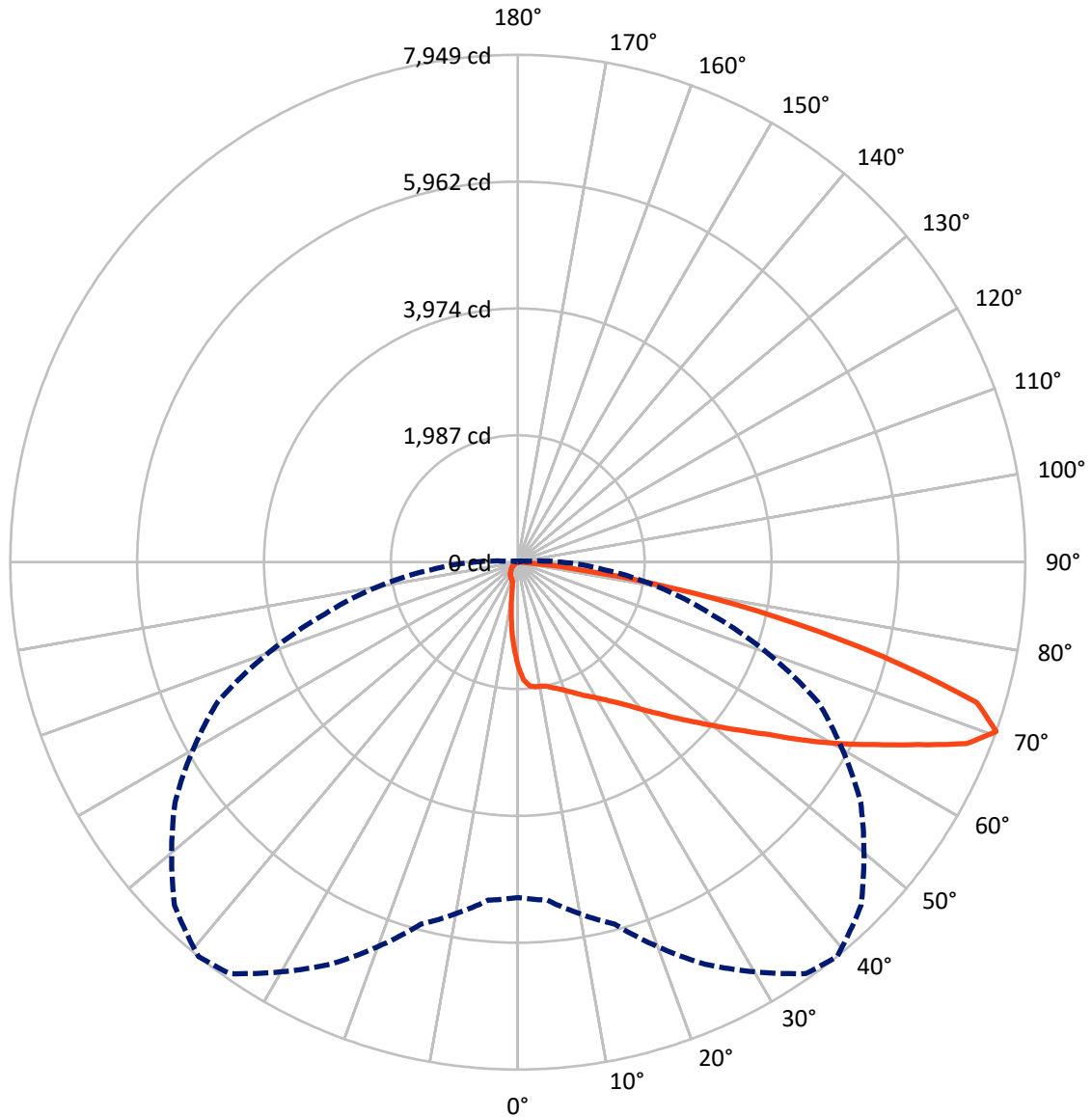
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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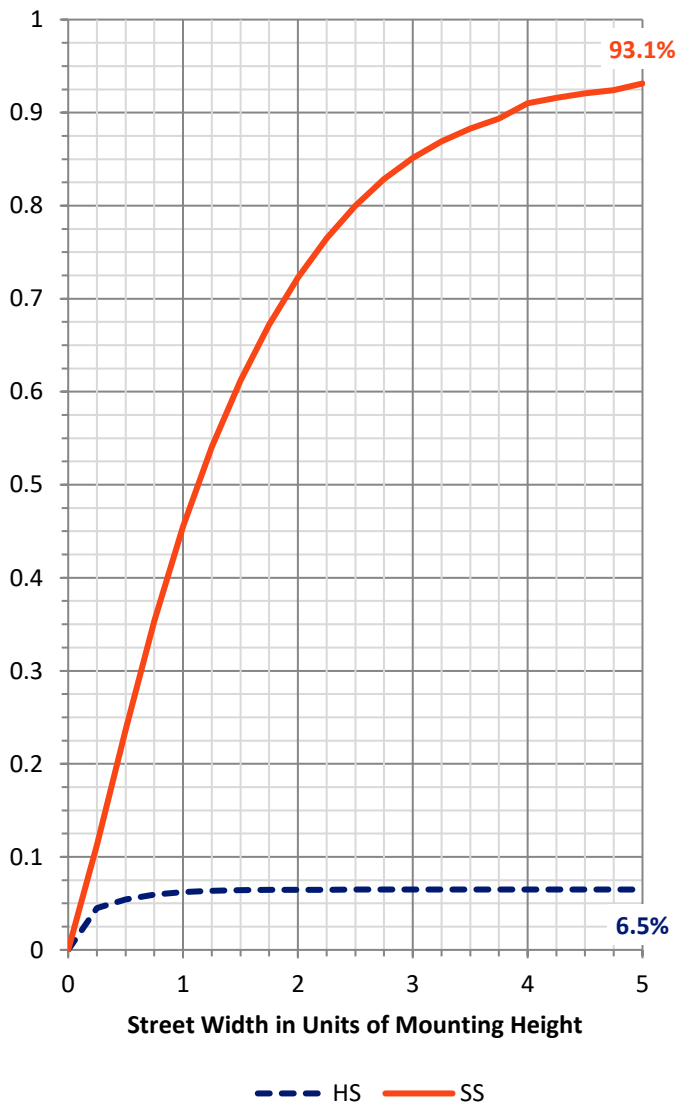
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	690.6	0.0	690.6
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	9900.4	0.0	9900.4
	% Fixture	93.5	0.0	93.5
Total	Lumens	10591.0	0.0	10591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	1.3
10°-20°	366.3	3.5
20°-30°	613.6	5.8
30°-40°	951.7	9.0
40°-50°	1508.1	14.2
50°-60°	2210.7	20.9
60°-70°	2833.6	26.8
70°-80°	1780.5	16.8
80°-90°	185.5	1.8
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°	10591.0	100.0
0°-180°	10591.0	100.0

Coefficient of Utilization



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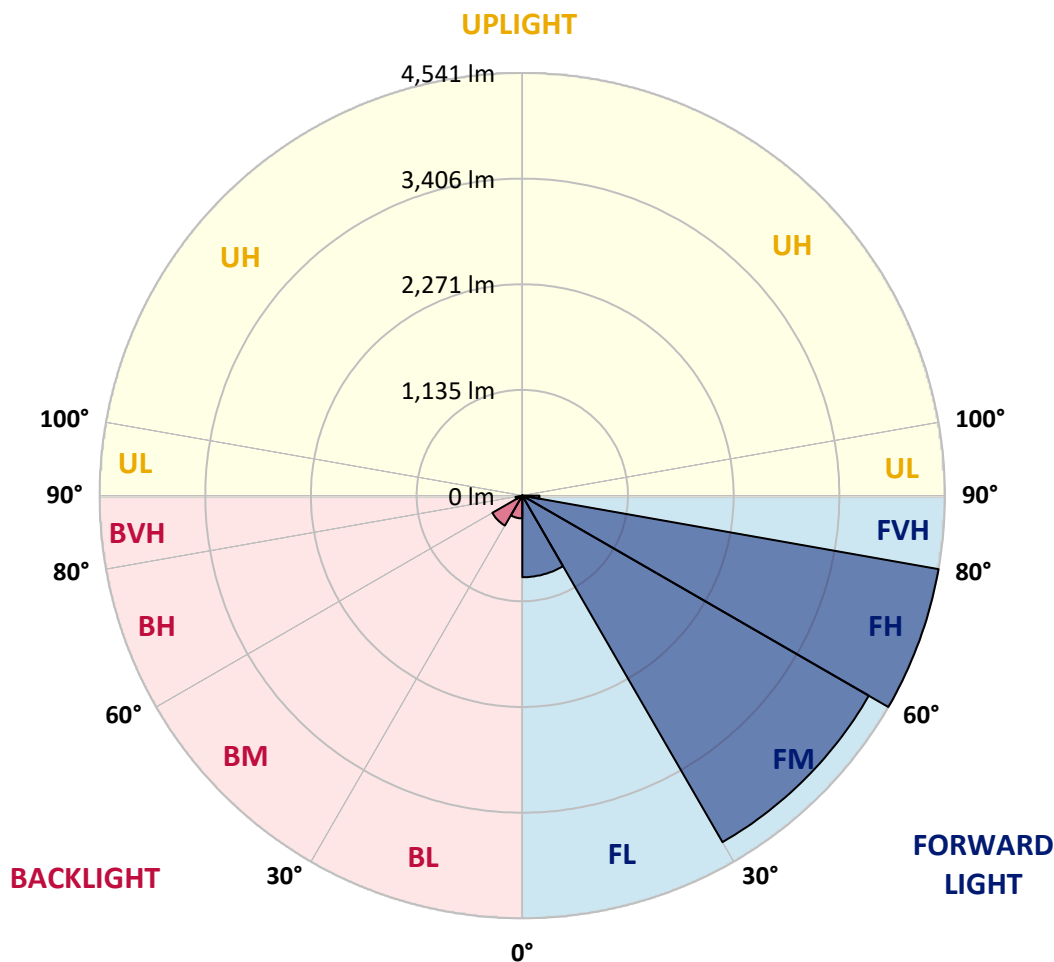
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	876.4	8.3			
FM (30°-60°)	4298.9	40.6			
FH (60°-80°)	4541.1	42.9			G2/5000
FVH (80°-90°)	184.1	1.7			G2/225
BL (0°-30°)	244.5	2.3	B1/500		
BM (30°-60°)	371.7	3.5	B1/1000		
BH (60°-80°)	73.0	0.7	B0/110		G0/110
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6
2.5°	1909.5	1903.1	1894.5	1884.6	1856.1	1851.1	1834.0	1797.7	1754.3	1718.7	1669.6
5°	1999.9	2003.4	1997.0	1979.2	1958.6	1946.5	1925.1	1868.9	1812.7	1740.8	1660.4
7.5°	2020.5	2027.6	2019.8	2002.7	1982.8	1970.0	1952.9	1904.5	1839.0	1757.2	1646.9
10°	2018.4	2026.9	2021.9	2006.3	1989.9	1977.8	1959.3	1920.9	1868.2	1782.1	1651.1
12.5°	2014.8	2026.2	2025.5	2017.7	2004.1	1994.9	1983.5	1949.3	1900.2	1818.4	1674.6
15°	2004.8	2019.1	2031.9	2038.3	2039.0	2039.0	2024.8	1988.5	1941.5	1866.1	1705.2
17.5°	2009.1	2025.5	2057.5	2076.0	2088.8	2087.4	2072.5	2033.3	1981.4	1915.2	1737.3
20°	2035.5	2057.5	2102.4	2139.4	2152.2	2147.9	2128.0	2082.4	2023.4	1957.2	1768.6
22.5°	2100.2	2120.1	2176.4	2219.8	2229.0	2217.6	2189.2	2127.3	2073.9	2002.7	1806.3
25°	2197.0	2220.5	2272.4	2305.2	2305.2	2298.8	2258.9	2186.3	2130.8	2066.1	1855.4
27.5°	2314.4	2334.4	2385.6	2414.8	2397.7	2379.2	2339.3	2251.8	2198.4	2145.8	1914.5
30°	2433.3	2446.1	2500.2	2513.0	2495.2	2471.7	2429.0	2341.5	2294.5	2253.9	1999.9
32.5°	2545.7	2573.5	2618.3	2615.5	2591.3	2579.9	2540.8	2447.5	2421.2	2416.9	2119.4
35°	2658.2	2679.5	2719.4	2729.4	2708.0	2705.9	2677.4	2608.4	2609.1	2636.8	2305.9
37.5°	2755.0	2774.2	2821.2	2843.2	2847.5	2858.2	2846.8	2801.2	2866.0	2942.2	2552.9
40°	2836.1	2863.2	2922.9	2961.4	3005.5	3044.6	3046.8	3056.7	3187.0	3317.9	2875.3
42.5°	2899.5	2937.2	3024.0	3095.2	3196.2	3246.0	3285.9	3340.7	3559.9	3755.6	3255.3
45°	2982.0	3025.4	3133.6	3245.3	3403.3	3485.2	3540.7	3687.3	3998.3	4265.2	3645.3
47.5°	3118.7	3141.4	3251.7	3414.7	3622.5	3739.3	3847.4	4069.5	4468.7	4707.9	3969.8
50°	3294.4	3309.4	3392.7	3619.0	3888.0	4041.7	4238.9	4500.1	4957.0	5075.1	4153.5
52.5°	3488.7	3493.7	3556.3	3843.9	4185.5	4379.1	4599.7	4922.1	5354.8	5337.0	4275.2
55°	3714.3	3707.2	3760.6	4088.0	4537.8	4759.1	5016.0	5354.1	5700.0	5522.8	4344.9
57.5°	3972.7	3953.5	4005.4	4411.8	4989.0	5253.7	5514.9	5727.0	5967.6	5678.6	4378.4
60°	4243.1	4204.7	4266.6	4775.5	5520.6	5771.9	5988.9	6045.9	6249.4	5802.5	4320.7
62.5°	4458.8	4459.5	4574.8	5162.6	6067.2	6287.1	6402.4	6453.7	6492.1	5775.4	4017.5
65°	4795.4	4806.8	4991.1	5700.0	6699.9	6890.6	6969.6	6803.1	6502.8	5439.5	3562.0
67.5°	5142.7	5179.0	5516.4	6440.1	7430.8	7584.5	7482.8	6870.7	6212.4	4673.0	2700.9
70°	5255.9	5315.7	5871.5	6949.7	7869.2	7948.9	7604.5	6555.4	5193.2	3124.3	1359.3
72.5°	4816.1	4912.8	5667.2	6764.0	7589.5	7520.5	6803.8	5497.9	3301.6	1186.4	414.9
75°	3396.2	3438.9	4710.0	5611.0	6104.2	5908.5	5175.5	3544.2	1357.9	333.1	142.3
77.5°	1753.6	1733.0	2801.2	3722.9	4353.4	4150.6	3389.1	1834.8	514.6	138.8	88.3
80°	906.7	921.6	1212.0	1950.8	2657.5	2445.4	1807.0	850.5	274.0	76.9	67.6
82.5°	508.2	476.8	696.8	851.9	1242.6	974.3	693.2	602.1	119.6	46.3	64.1
85°	92.5	96.8	382.2	460.5	431.3	274.0	223.5	402.1	34.9	25.6	44.8
87.5°	1.4	1.4	74.0	132.4	84.0	38.4	70.5	57.6	7.1	10.0	7.8
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°	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6	1652.6
2.5°	1644.7	1617.7	1567.2	1517.3	1454.0	1402.0	1367.2	1330.9	1293.9	1296.7	1305.3
5°	1616.3	1569.3	1469.7	1364.3	1263.3	1172.2	1082.5	1002.1	969.3	939.4	940.9
7.5°	1587.8	1521.6	1375.7	1210.6	1057.6	902.4	790.0	697.5	648.4	611.3	600.7
10°	1575.0	1487.4	1289.6	1062.6	845.5	676.1	531.6	456.2	397.8	379.3	384.3
12.5°	1580.7	1470.4	1212.0	928.8	670.4	471.1	370.1	331.7	318.8	316.7	315.3
15°	1591.4	1458.3	1135.9	780.7	492.5	350.2	311.0	303.9	302.5	301.0	301.8
17.5°	1605.6	1447.6	1054.7	642.0	377.9	306.0	294.6	291.1	290.4	290.4	290.4
20°	1619.8	1435.5	964.3	518.1	315.3	288.9	281.8	279.7	279.0	279.0	278.3
22.5°	1636.2	1424.8	872.5	407.1	290.4	276.8	270.4	269.0	268.3	267.6	267.6
25°	1659.7	1411.3	775.0	333.1	274.7	265.5	259.1	257.6	256.9	254.1	254.8
27.5°	1691.0	1401.3	674.7	287.5	260.5	251.2	247.0	244.8	243.4	241.3	242.0
30°	1733.7	1392.8	567.9	262.6	244.1	236.3	232.0	230.6	229.2	227.0	227.0
32.5°	1807.7	1396.3	455.5	242.7	229.2	219.9	215.6	214.2	212.8	210.7	210.7
35°	1918.7	1417.0	364.4	225.6	211.4	202.1	197.9	197.9	195.7	192.9	192.2
37.5°	2100.2	1469.7	292.5	209.2	194.3	185.8	180.8	179.3	177.2	172.9	172.2
40°	2314.4	1551.5	246.2	192.9	178.6	170.1	165.8	161.6	155.9	151.6	150.9
42.5°	2583.5	1635.5	213.5	176.5	163.7	155.9	150.9	143.8	135.2	129.5	128.8
45°	2863.9	1712.3	191.4	161.6	149.5	143.1	137.4	126.0	115.3	108.2	107.5
47.5°	3073.1	1726.6	173.7	147.3	137.4	131.0	123.1	108.9	94.7	88.3	86.1
50°	3172.0	1657.5	155.1	133.1	125.3	118.1	108.2	91.8	76.2	68.3	66.9
52.5°	3206.9	1538.0	140.2	120.3	113.2	104.6	92.5	74.0	59.8	52.0	51.2
55°	3192.7	1387.1	126.7	108.2	98.9	89.0	76.9	59.1	44.1	37.7	36.3
57.5°	3117.9	1194.9	113.2	96.1	84.7	74.7	61.2	44.1	29.9	24.2	23.5
60°	2916.5	933.0	99.6	82.6	71.9	61.2	48.4	31.3	18.5	13.5	13.5
62.5°	2576.3	692.5	86.8	69.0	60.5	49.1	34.2	19.9	10.0	7.1	6.4
65°	2152.9	511.0	72.6	58.4	50.5	38.4	24.2	12.1	5.0	2.1	1.4
67.5°	1502.4	315.3	60.5	47.7	41.3	27.8	14.9	5.0	2.1	0.0	0.0
70°	682.5	150.2	46.3	36.3	31.3	19.9	7.8	2.8	1.4	0.0	0.0
72.5°	212.1	79.0	32.7	26.3	21.4	12.8	4.3	2.1	1.4	0.0	0.0
75°	98.2	50.5	20.6	14.2	12.1	6.4	2.8	1.4	0.7	0.0	0.0
77.5°	73.3	39.1	12.1	7.8	6.4	4.3	2.1	1.4	0.7	0.0	0.0
80°	64.1	19.9	7.1	5.0	3.6	2.8	1.4	0.7	0.0	0.0	0.0
82.5°	57.6	10.0	4.3	2.8	2.1	1.4	0.7	0.7	0.0	0.0	0.0
85°	31.3	5.7	2.8	2.1	1.4	0.7	0.7	0.0	0.0	0.0	0.0
87.5°	5.7	2.8	2.1	1.4	1.4	0.7	0.7	0.7	0.0	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)