

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: P647759

Luminaire Tested: **GALN-SA2A-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5899.9 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

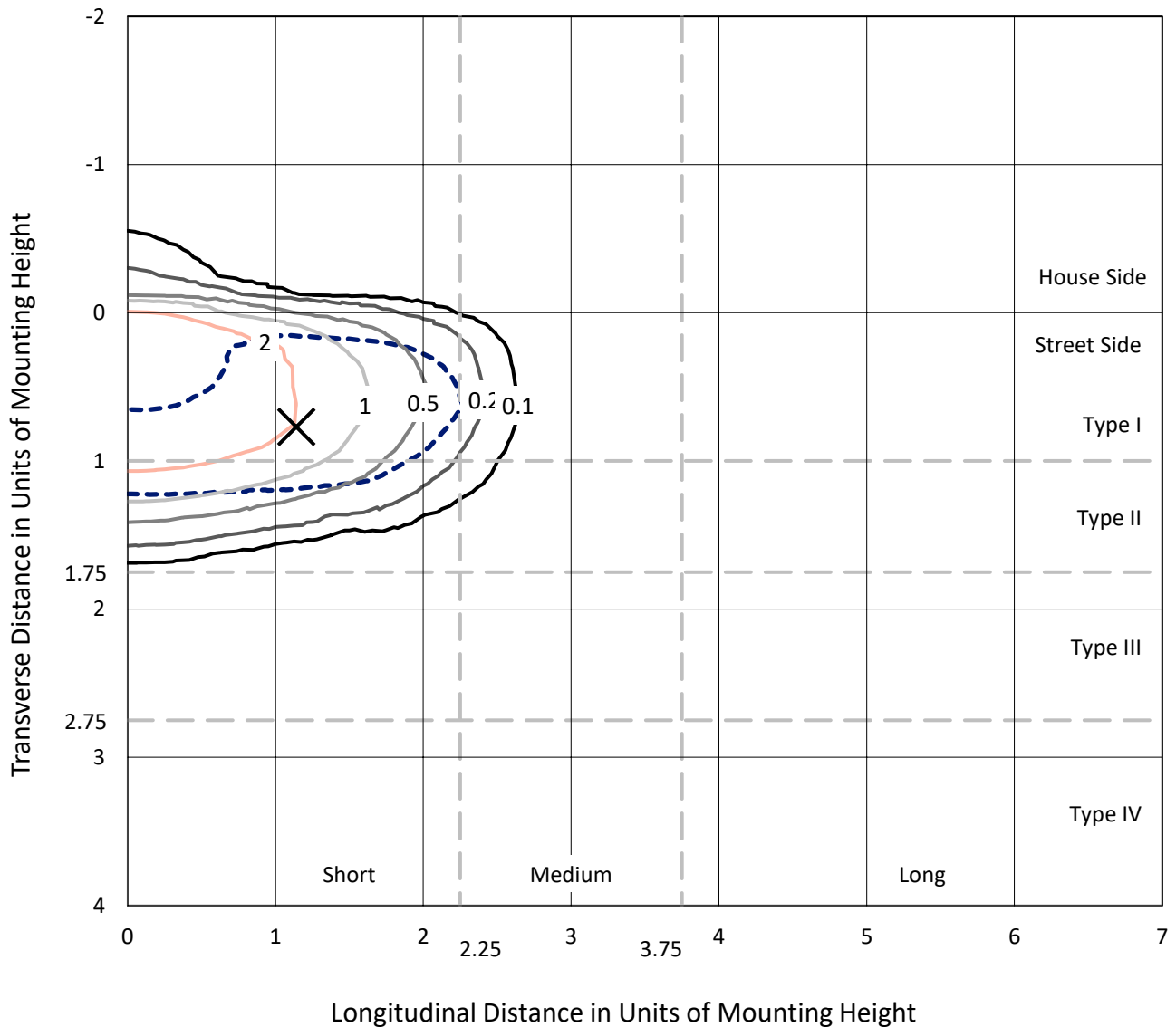
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

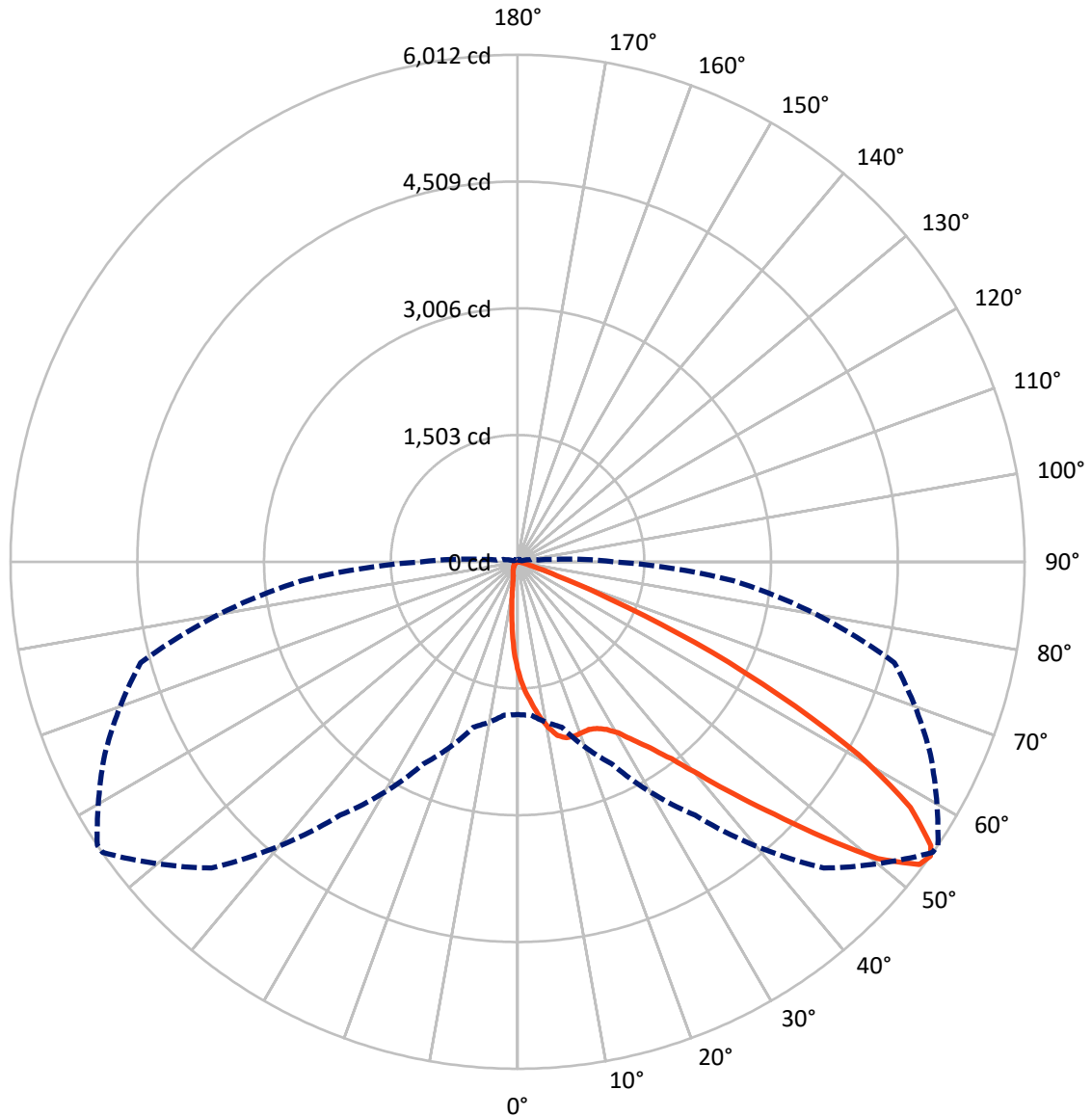
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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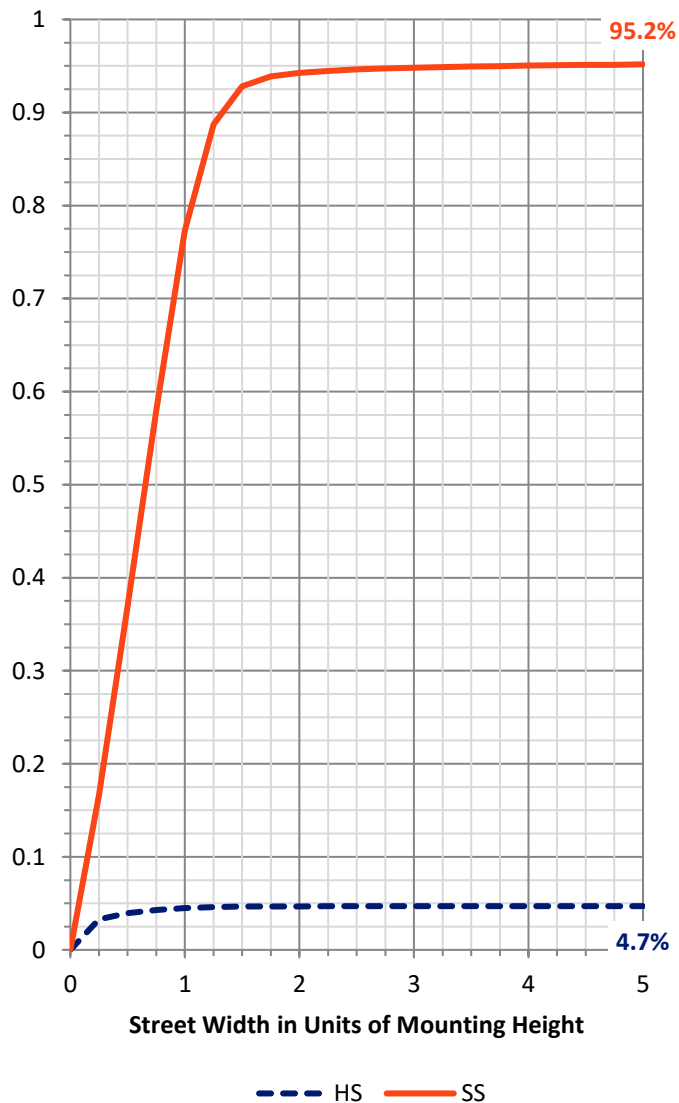
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	279.0	0.0	279.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	5620.9	0.0	5620.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	5899.9	0.0	5899.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	2.0
10°-20°	313.1	5.3
20°-30°	542.3	9.2
30°-40°	936.1	15.9
40°-50°	1593.3	27.0
50°-60°	1576.8	26.7
60°-70°	719.7	12.2
70°-80°	92.4	1.6
80°-90°	10.4	0.2
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°	5899.9	100.0
0°-180°	5899.9	100.0

Coefficient of Utilization



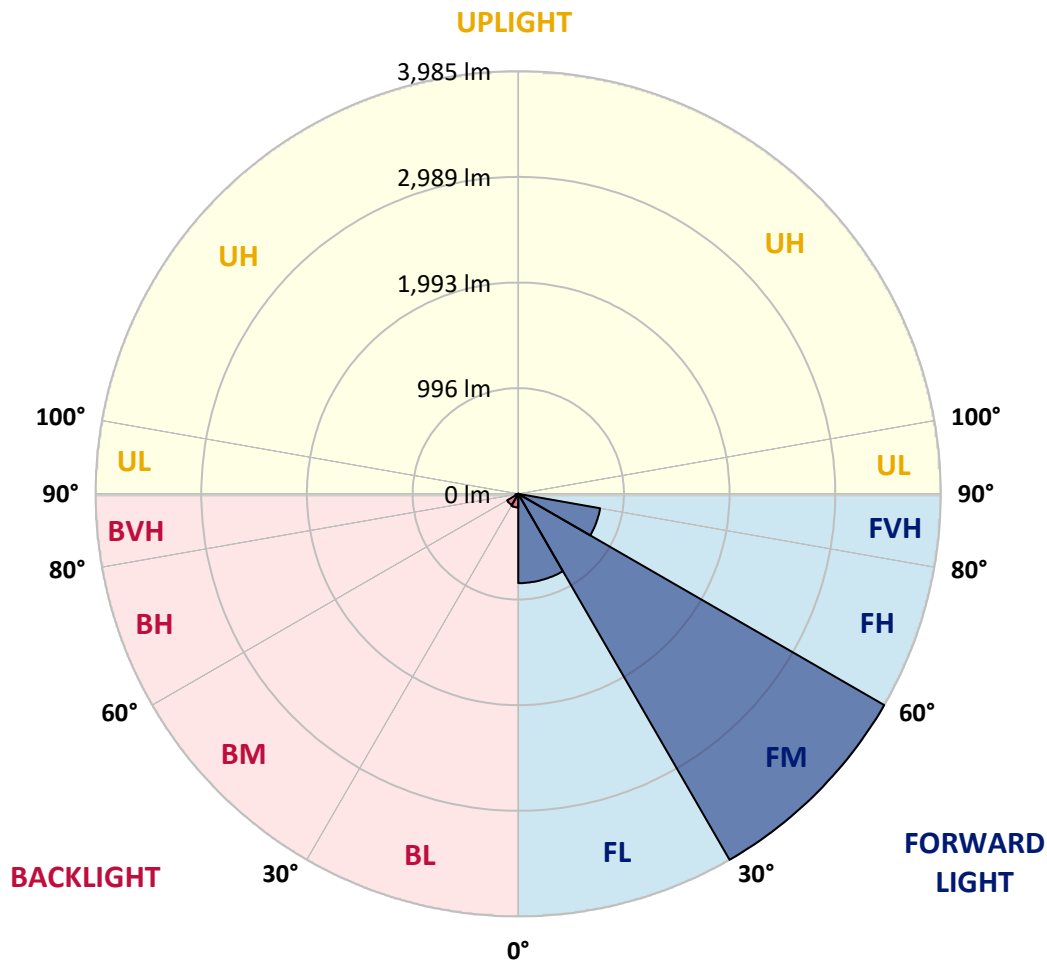
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.2	14.3			
FM (30°-60°)	3985.2	67.5			
FH (60°-80°)	784.2	13.3			G1/1800
FVH (80°-90°)	9.3	0.2			G0/10
BL (0°-30°)	129.0	2.2	B1/500		
BM (30°-60°)	120.9	2.0	B0/220		
BH (60°-80°)	27.9	0.5	B0/110		G0/110
BVH (80°-90°)	1.1	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1310.8	1310.8	1310.8	1310.8	1310.8	1310.8	1310.8	1310.8	1310.8	1310.8	1310.8
2.5°	1665.8	1654.3	1638.3	1626.1	1597.0	1555.2	1511.0	1511.0	1468.4	1409.1	1348.6
5°	1921.4	1913.8	1898.3	1866.4	1833.9	1775.3	1686.6	1671.0	1595.0	1487.5	1374.5
7.5°	2025.3	2028.9	2029.7	2021.3	2005.8	1948.1	1860.1	1849.4	1727.9	1583.9	1408.3
10°	1925.8	1943.3	1960.4	1995.0	2044.0	2058.0	2008.2	1997.0	1877.6	1681.4	1444.9
12.5°	1777.7	1787.3	1796.8	1851.3	1949.7	2062.3	2114.5	2114.0	2012.9	1778.5	1491.5
15°	1708.8	1717.2	1718.0	1742.3	1827.4	1991.5	2159.8	2165.8	2145.1	1898.3	1541.6
17.5°	1723.1	1730.0	1724.4	1730.4	1774.9	1913.4	2154.7	2174.5	2252.2	2013.3	1587.1
20°	1816.7	1829.9	1808.3	1791.7	1805.2	1892.7	2137.1	2165.0	2327.8	2125.6	1628.4
22.5°	1984.7	1991.9	1964.8	1919.0	1895.1	1936.1	2132.3	2159.8	2392.3	2217.5	1652.3
25°	2171.4	2169.0	2139.2	2087.8	2037.6	2023.7	2163.8	2188.5	2445.6	2300.4	1659.5
27.5°	2358.1	2365.2	2315.1	2251.4	2191.3	2155.1	2234.3	2252.6	2505.8	2394.7	1668.3
30°	2575.0	2563.5	2514.1	2441.2	2372.4	2321.8	2347.7	2352.9	2588.5	2519.7	1691.4
32.5°	2857.2	2825.4	2770.0	2642.7	2593.3	2507.7	2514.1	2520.5	2689.2	2643.5	1719.2
35°	3240.1	3238.6	3130.3	2958.7	2838.5	2732.2	2704.4	2709.6	2841.7	2827.3	1780.9
37.5°	3701.1	3707.5	3584.1	3411.3	3190.0	3021.2	2963.9	2964.7	3073.4	3081.3	1874.8
40°	4076.5	4093.2	4019.5	3902.9	3684.4	3420.5	3324.1	3315.4	3399.0	3389.1	2008.9
42.5°	4238.1	4253.6	4281.1	4321.7	4201.4	3983.7	3756.4	3768.3	3793.9	3724.2	2159.4
45°	4158.8	4183.6	4291.4	4542.2	4655.2	4582.0	4310.9	4269.2	4161.3	4088.4	2310.7
47.5°	3828.9	3889.0	4069.3	4486.8	4882.6	5130.1	4936.7	4881.3	4529.0	4354.3	2407.0
50°	3286.3	3289.9	3541.1	4074.9	4764.7	5476.0	5575.5	5534.2	4871.7	4503.6	2455.6
52.5°	2382.4	2460.7	2690.9	3309.0	4254.4	5423.4	5982.7	5965.6	5225.3	4580.0	2525.6
54°	1811.2	1826.3	2030.9	2644.3	3668.0	5134.9	6007.8	6011.8	5400.8	4626.2	2567.1
55°	1484.7	1448.6	1663.5	2252.6	3268.0	4879.7	5925.8	5944.9	5479.6	4650.1	2597.7
57.5°	703.8	704.2	868.6	1188.2	2046.8	3789.1	5424.7	5492.4	5488.4	4691.0	2692.0
60°	356.3	358.6	394.9	548.5	1011.1	2518.9	4485.3	4646.5	5066.0	4697.1	2723.1
62.5°	249.2	246.4	240.5	263.9	425.5	1280.1	3339.3	3479.4	4304.2	4469.8	2624.4
65°	213.4	207.4	190.7	187.1	214.9	509.9	2079.8	2308.3	3286.3	3870.3	2343.4
67.5°	182.3	179.9	164.8	155.7	152.1	222.1	1073.2	1193.4	2246.2	2782.0	1774.9
70°	154.9	153.6	144.5	133.0	123.0	133.0	398.1	493.2	1251.9	1497.9	837.5
72.5°	125.7	127.0	128.6	113.8	103.5	94.4	170.0	197.9	523.8	535.4	293.0
75°	110.2	109.1	109.1	99.1	86.4	70.1	93.6	100.7	160.4	148.8	68.0
77.5°	77.6	74.9	87.5	81.6	72.0	49.7	53.3	56.5	66.5	56.9	31.9
80°	53.7	53.7	56.1	73.2	64.9	36.3	32.7	35.0	39.4	33.8	18.3
82.5°	30.2	31.1	36.6	39.0	37.8	24.3	21.5	21.9	26.3	23.1	11.5
85°	3.6	6.0	21.1	20.7	15.5	10.7	12.0	12.4	16.3	14.3	6.7
87.5°	0.4	0.8	4.4	5.6	4.0	4.4	4.4	4.4	5.6	6.3	4.8
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°	1310.8	1310.8	1310.8	1310.8	1310.8	1310.8	1310.8	1310.8	1310.8	1310.8	1310.8
2.5°	1316.0	1285.7	1213.6	1130.1	1076.7	989.9	916.7	863.8	850.7	825.1	832.7
5°	1314.3	1251.5	1104.6	949.4	783.8	660.4	568.5	496.0	464.2	443.0	428.3
7.5°	1315.2	1216.9	981.2	734.0	536.2	415.1	330.0	285.8	256.4	244.0	245.6
10°	1317.6	1177.9	837.9	543.7	361.8	268.3	216.1	195.0	185.1	183.5	183.1
12.5°	1323.1	1135.3	700.9	403.6	253.1	195.0	175.2	168.0	164.8	164.8	163.6
15°	1329.1	1088.3	587.1	300.1	195.0	167.6	158.4	154.9	152.8	152.8	152.5
17.5°	1329.1	1034.1	480.8	232.9	168.0	154.0	146.9	142.1	140.5	140.5	140.1
20°	1320.8	971.2	386.5	187.5	152.5	141.3	134.1	129.0	127.0	126.2	125.7
22.5°	1291.7	887.3	307.7	161.2	139.7	130.1	121.0	115.0	113.5	112.7	113.1
25°	1240.0	792.6	243.6	141.7	128.2	116.7	108.7	104.3	102.7	102.7	103.1
27.5°	1186.6	693.4	193.1	127.0	114.2	103.9	97.6	94.7	94.4	95.5	95.9
30°	1137.2	593.9	156.4	115.0	101.9	93.2	88.8	87.9	87.9	88.4	88.8
32.5°	1082.3	506.8	131.0	104.7	91.9	84.4	82.0	82.0	82.8	82.8	83.6
35°	1047.7	431.9	115.0	94.7	84.4	78.0	76.4	76.8	78.0	79.6	80.4
37.5°	1028.9	372.2	104.7	86.8	77.2	72.8	71.3	72.0	74.9	77.6	78.0
40°	1030.6	327.2	96.3	80.0	71.6	66.9	65.7	68.0	70.9	73.6	74.1
42.5°	1048.0	293.8	88.4	72.0	66.9	60.1	59.7	62.1	63.3	66.1	66.5
45°	1068.8	269.5	80.0	63.7	58.1	52.1	52.5	54.5	56.1	60.5	61.3
47.5°	1075.1	252.8	70.5	54.1	47.8	45.8	46.2	47.4	50.6	54.5	55.0
50°	1082.3	242.4	61.3	45.8	40.6	40.2	40.6	41.4	43.4	44.9	44.6
52.5°	1113.0	242.0	53.7	39.8	34.6	35.4	35.9	35.4	33.8	31.5	30.6
54°	1141.6	243.2	50.2	37.0	31.9	33.0	32.7	30.6	26.7	24.3	23.1
55°	1164.7	244.4	48.2	35.0	30.2	30.6	31.1	27.1	21.9	19.5	18.7
57.5°	1210.0	241.6	43.4	30.6	26.7	25.1	24.7	17.9	12.0	10.3	9.6
60°	1187.4	218.1	39.4	26.3	22.7	20.3	16.8	9.9	6.0	4.4	4.4
62.5°	1098.2	185.1	35.0	21.5	18.7	15.5	8.8	5.6	2.8	1.6	1.2
65°	982.4	155.7	31.5	17.1	14.7	9.9	4.8	3.6	1.2	0.0	0.0
67.5°	730.5	115.4	26.7	13.5	11.1	6.3	3.2	2.0	0.4	0.0	0.0
70°	338.3	70.5	22.7	10.3	8.0	4.8	2.4	1.2	0.0	0.0	0.0
72.5°	97.1	44.2	18.7	7.6	5.6	4.0	2.0	0.8	0.4	0.0	0.0
75°	33.8	35.4	13.9	5.6	4.4	2.8	1.6	0.8	0.4	0.0	0.0
77.5°	20.3	28.7	8.8	4.8	3.6	2.4	1.6	0.8	0.4	0.4	0.0
80°	11.5	19.1	5.6	4.0	3.2	2.0	1.2	0.8	0.4	0.4	0.0
82.5°	6.3	9.2	4.4	3.6	2.8	2.0	1.2	0.8	0.4	0.4	0.4
85°	5.2	4.8	3.6	3.2	2.4	1.6	1.2	0.4	0.0	0.0	0.0
87.5°	4.0	3.2	3.2	3.2	2.4	1.6	1.2	0.4	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)