

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: P647208

Luminaire Tested: **GALN-SA1D-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-835-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5530.3 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

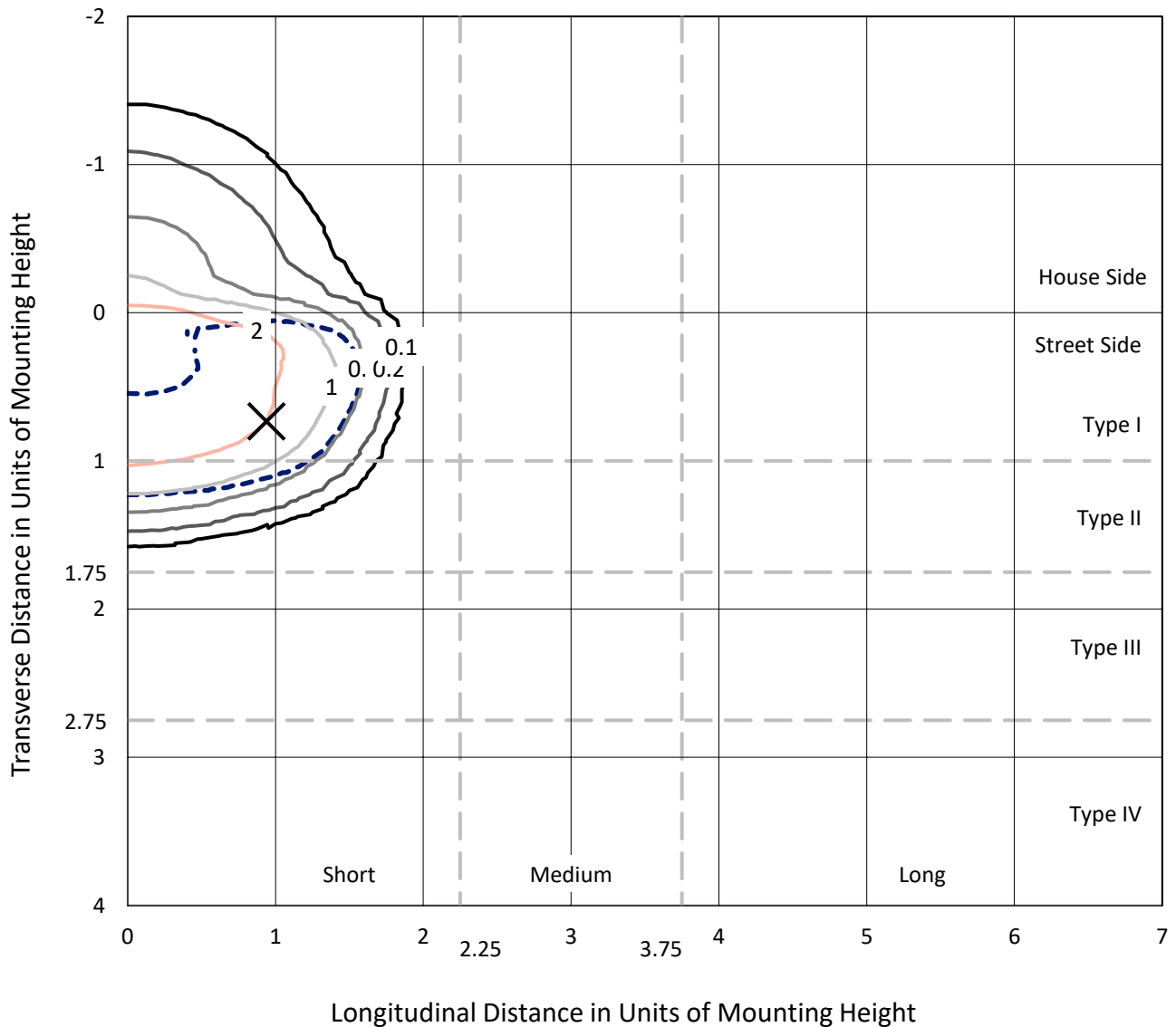
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

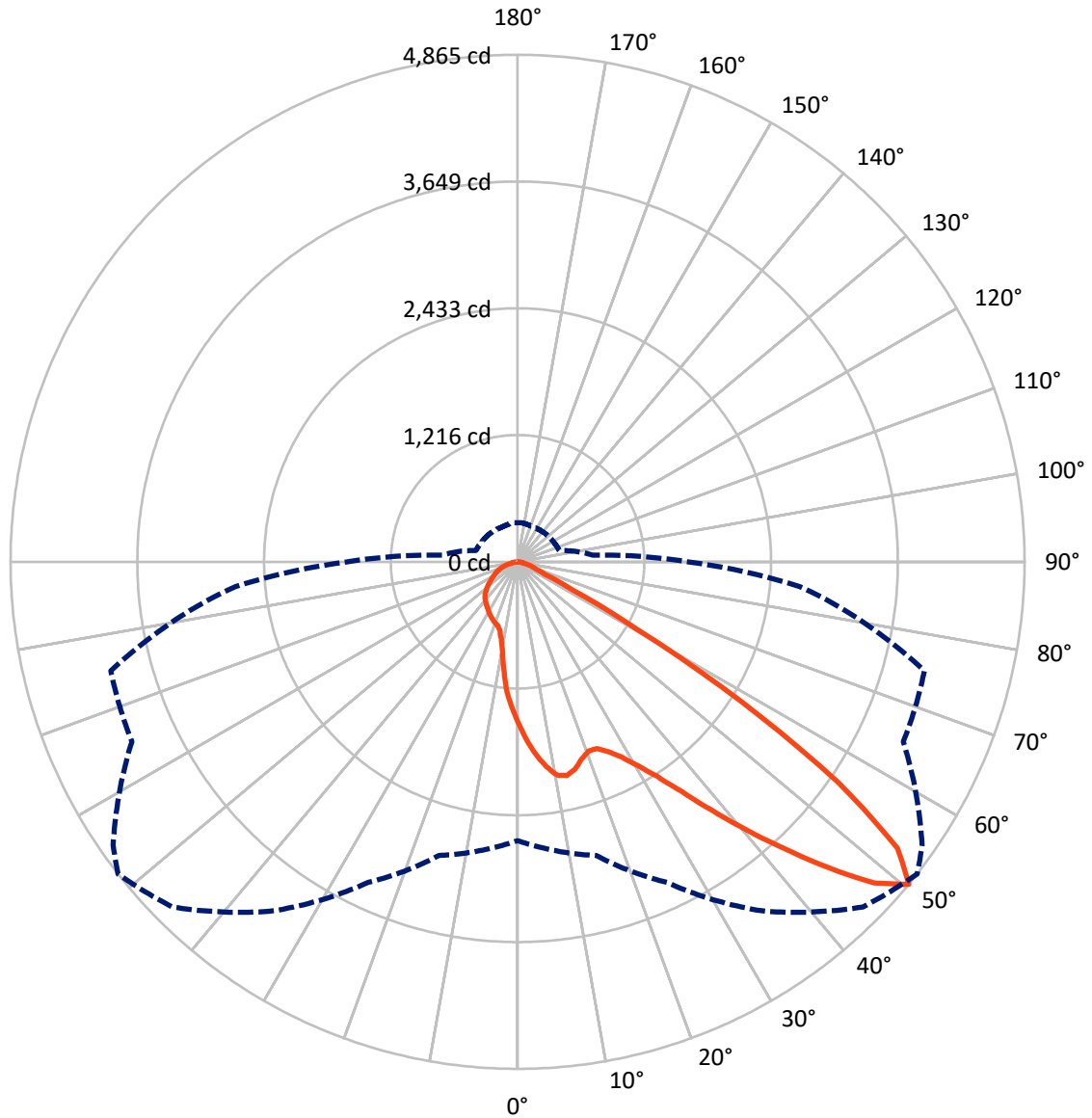
✕ Max cd  
 - - - 1/2 Max cd



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 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical



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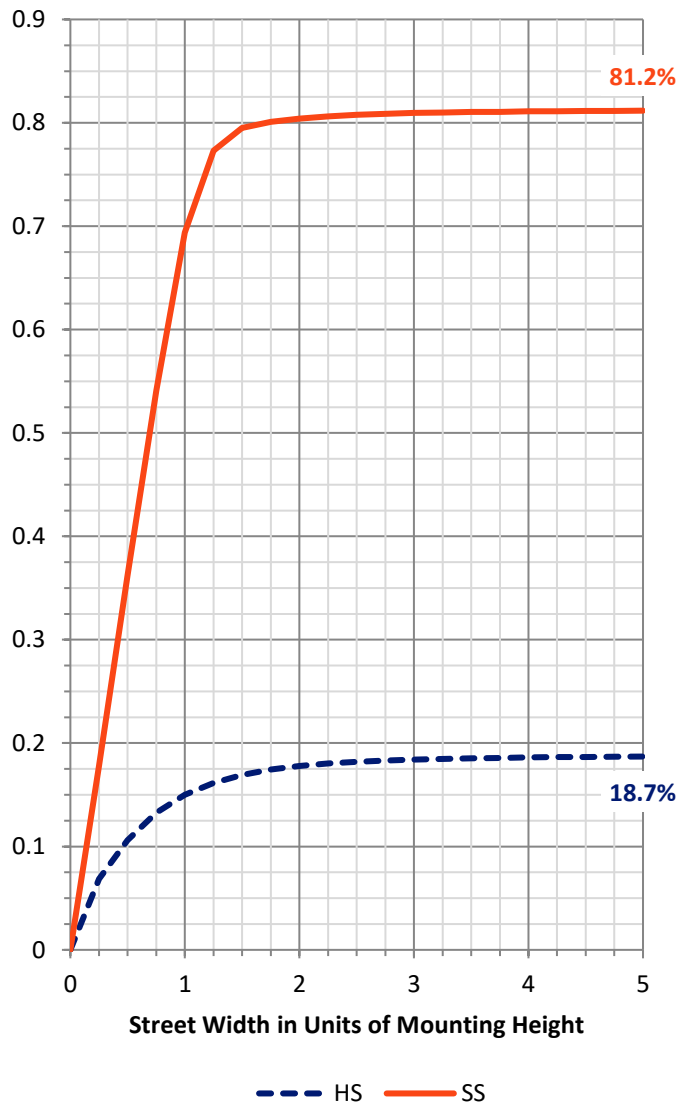
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1039.6	0.0	1039.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	4490.8	0.0	4490.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	5530.3	0.0	5530.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.7	2.6
10°-20°	385.1	7.0
20°-30°	648.7	11.7
30°-40°	1088.6	19.7
40°-50°	1665.3	30.1
50°-60°	1214.1	22.0
60°-70°	270.2	4.9
70°-80°	97.5	1.8
80°-90°	17.3	0.3
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°	5530.3	100.0
0°-180°	5530.3	100.0

**Coefficient of Utilization**

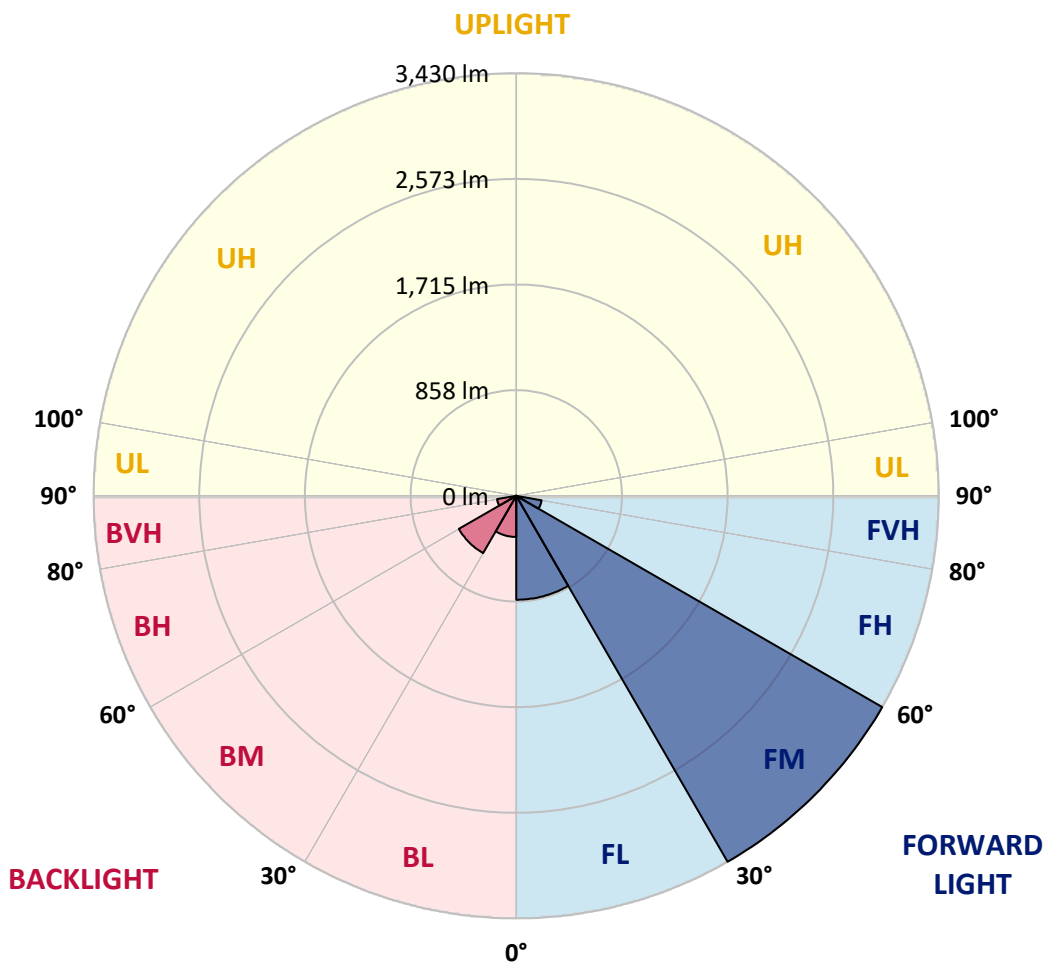


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.6	15.3			
FM (30°-60°)	3430.2	62.0			
FH (60°-80°)	209.3	3.8			G0/660
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	333.9	6.0	B1/500		
BM (30°-60°)	537.7	9.7	B1/1000		
BH (60°-80°)	158.4	2.9	B1/500		G1/500
BVH (80°-90°)	9.5	0.2			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°	52°	55°	65°	75°	85°
0°	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9
2.5°	1835.5	1800.2	1804.2	1778.8	1751.5	1743.5	1715.6	1688.9	1668.9	1626.2	1586.9
5°	2006.1	1995.5	1979.4	1959.5	1938.8	1888.1	1859.5	1826.2	1752.8	1686.9	1621.6
7.5°	2030.8	2028.8	2037.4	2037.4	2044.8	2025.5	1984.8	1961.5	1883.5	1776.2	1654.9
10°	1857.5	1863.5	1905.5	1960.2	2036.1	2088.7	2082.1	2076.1	1990.8	1844.2	1694.2
12.5°	1719.5	1706.2	1730.9	1777.5	1891.5	2018.8	2104.8	2105.4	2083.4	1952.8	1722.8
15°	1641.6	1650.9	1657.5	1679.5	1765.5	1912.8	2064.1	2108.8	2205.4	2029.5	1768.2
17.5°	1691.5	1660.2	1658.9	1664.2	1708.2	1818.8	1988.8	2065.4	2272.0	2128.1	1824.2
20°	1756.8	1756.2	1737.6	1730.9	1730.2	1828.9	1939.5	2043.5	2307.3	2256.1	1880.8
22.5°	1871.5	1871.5	1840.8	1826.2	1794.9	1875.5	1946.1	2016.8	2366.0	2344.0	1908.2
25°	2063.4	2032.1	1979.4	1943.5	1925.5	1954.1	2016.8	2080.1	2417.4	2437.3	1964.8
27.5°	2240.7	2191.4	2165.4	2103.5	2079.4	2062.7	2120.1	2184.1	2477.3	2582.6	1995.5
30°	2442.0	2433.3	2386.7	2306.7	2247.4	2216.8	2269.4	2332.7	2587.3	2731.3	2066.1
32.5°	2801.9	2723.3	2659.9	2562.0	2465.4	2400.0	2452.0	2494.0	2769.9	2886.5	2143.4
35°	3190.5	3165.1	3055.8	2879.2	2731.3	2672.6	2703.2	2734.5	2982.5	3123.8	2273.4
37.5°	3572.4	3537.7	3447.7	3299.1	3119.2	2999.8	3021.8	3058.5	3221.1	3443.7	2432.0
40°	3847.0	3804.3	3758.9	3736.9	3558.3	3395.1	3382.4	3391.7	3543.7	3743.7	2607.9
42.5°	3866.9	3919.6	3933.6	4022.3	3980.2	3846.3	3768.3	3770.3	3851.6	4040.2	2785.9
45°	3825.0	3776.3	3879.6	4121.6	4260.1	4322.8	4191.6	4174.9	4042.2	4212.1	2874.5
47.5°	3384.4	3397.8	3572.4	3954.9	4355.5	4635.4	4604.7	4549.4	4144.2	4206.2	2860.5
50°	2675.3	2755.9	2917.8	3394.4	4088.9	4684.7	4865.3	4737.4	4083.6	4040.9	2717.9
52.5°	1781.5	1814.8	1921.5	2536.6	3287.7	4187.6	4565.4	4594.7	4027.6	3824.3	2537.3
55°	793.1	790.4	940.4	1325.0	2062.7	3186.5	3730.3	3909.0	3812.3	3603.7	2361.4
57.5°	335.9	347.3	408.6	572.5	1014.4	1922.8	2527.3	2684.0	2931.9	2959.2	1811.5
60°	227.3	228.6	245.2	286.6	424.5	903.1	1325.6	1513.6	1690.9	1678.9	961.1
62.5°	178.6	183.3	196.0	212.6	252.0	409.9	593.2	697.8	709.2	596.5	364.6
65°	152.6	153.3	165.9	179.9	197.3	238.6	286.0	291.3	294.6	283.9	267.9
67.5°	126.0	127.3	137.3	153.3	169.3	182.6	196.0	202.6	217.9	247.9	243.9
70°	100.0	101.9	110.6	123.9	138.6	146.7	163.3	169.3	183.3	206.6	216.0
72.5°	76.0	76.7	84.0	93.3	106.6	114.6	128.6	135.3	144.6	164.6	173.3
75°	54.7	56.7	62.0	66.6	68.7	74.0	87.3	94.7	108.0	116.7	117.3
77.5°	28.7	30.0	31.3	31.3	38.0	48.0	56.7	60.7	70.0	76.7	73.3
80°	11.4	12.0	15.3	20.7	26.6	34.7	40.6	42.7	50.7	54.7	56.7
82.5°	6.7	7.4	10.0	14.6	19.3	24.7	29.4	31.3	36.6	41.3	42.7
85°	3.4	4.0	6.0	9.3	12.7	15.3	14.6	14.0	14.0	13.3	14.0
87.5°	1.3	1.3	2.0	2.0	2.0	2.7	3.4	3.4	3.4	4.0	4.0
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°	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9	1558.9
2.5°	1560.9	1534.2	1509.6	1464.3	1415.0	1400.9	1343.6	1323.0	1308.3	1291.0	1285.7
5°	1568.9	1533.6	1454.3	1363.0	1290.3	1197.0	1135.7	1069.7	1021.7	1009.8	1006.4
7.5°	1585.6	1524.9	1388.3	1250.3	1101.7	975.1	878.4	826.5	780.4	777.8	773.1
10°	1604.2	1498.9	1316.3	1099.7	909.8	792.5	734.5	711.8	700.5	697.8	696.5
12.5°	1619.6	1493.6	1235.7	953.1	773.8	703.1	685.8	683.8	688.5	689.8	692.5
15°	1626.2	1472.3	1138.3	821.8	689.1	663.1	670.5	678.5	681.8	690.4	683.8
17.5°	1638.9	1444.9	1018.4	717.8	641.8	646.5	659.1	668.4	673.8	679.8	671.2
20°	1645.6	1420.3	905.8	655.8	625.1	633.8	651.1	658.5	665.2	667.8	657.8
22.5°	1639.5	1369.6	806.4	605.8	609.2	620.5	635.8	643.9	639.8	629.1	623.2
25°	1623.6	1298.3	703.1	573.9	586.5	606.5	618.5	612.5	605.2	599.2	597.2
27.5°	1622.9	1211.0	628.5	544.5	567.2	594.5	590.5	585.1	588.5	583.8	578.5
30°	1626.2	1126.3	567.2	527.8	553.2	566.5	571.2	565.9	569.9	561.2	563.8
32.5°	1608.9	1043.7	527.2	508.6	536.5	535.9	551.2	555.1	545.8	527.8	530.6
35°	1616.2	977.1	493.2	499.9	517.9	517.9	529.9	525.2	500.5	489.8	492.5
37.5°	1666.9	911.7	476.5	487.9	499.9	505.2	501.2	481.2	475.2	475.2	476.5
40°	1714.8	855.7	466.5	485.2	483.2	486.6	457.2	459.2	459.2	459.9	456.6
42.5°	1757.5	817.8	458.5	469.2	472.5	455.2	437.2	435.2	439.9	439.2	436.5
45°	1772.9	786.4	447.2	451.2	453.9	425.2	416.6	412.6	417.9	419.9	422.6
47.5°	1714.2	760.4	434.6	426.6	421.3	402.5	391.3	383.9	390.6	401.9	404.6
50°	1638.9	726.5	414.5	399.3	387.9	379.9	371.9	364.6	369.3	377.2	375.2
52.5°	1527.6	673.1	389.2	373.3	353.9	355.9	348.6	344.6	347.3	347.3	345.2
55°	1369.0	553.2	346.6	335.3	319.2	324.6	325.9	320.6	315.2	319.9	315.9
57.5°	934.4	390.6	309.3	309.3	293.2	300.6	299.9	287.3	274.6	275.9	273.3
60°	540.5	311.2	285.2	282.6	265.9	271.9	273.3	264.6	245.2	246.6	243.9
62.5°	307.2	265.9	249.2	245.2	241.9	247.3	247.3	235.9	219.2	220.6	217.9
65°	261.3	246.6	222.6	221.9	220.6	221.9	216.6	204.6	190.0	183.9	184.6
67.5°	237.2	227.9	204.6	198.6	194.6	193.9	183.9	172.7	165.9	160.6	160.0
70°	208.0	200.6	183.3	175.3	171.3	161.9	152.0	144.6	135.3	132.6	135.3
72.5°	164.6	164.0	157.3	148.6	140.0	132.6	123.9	114.0	105.3	103.3	98.7
75°	114.0	115.3	116.7	115.3	108.0	98.7	88.6	80.6	70.0	64.0	62.6
77.5°	74.6	76.7	78.6	76.0	71.3	62.6	56.0	46.0	38.0	33.4	32.7
80°	54.7	57.3	58.6	56.7	51.3	44.6	37.3	29.4	23.3	19.3	19.3
82.5°	42.0	44.6	46.0	42.7	37.3	32.0	26.6	20.7	16.0	12.7	12.0
85°	14.6	14.0	16.7	17.3	20.7	19.3	16.0	12.0	9.3	6.7	6.0
87.5°	4.0	4.0	4.7	4.7	4.0	3.4	3.4	3.4	2.7	2.0	2.0
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)