

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: P526797

Luminaire Tested: **GALN-SA1D-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526797  
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-SA1D-735-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5439 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

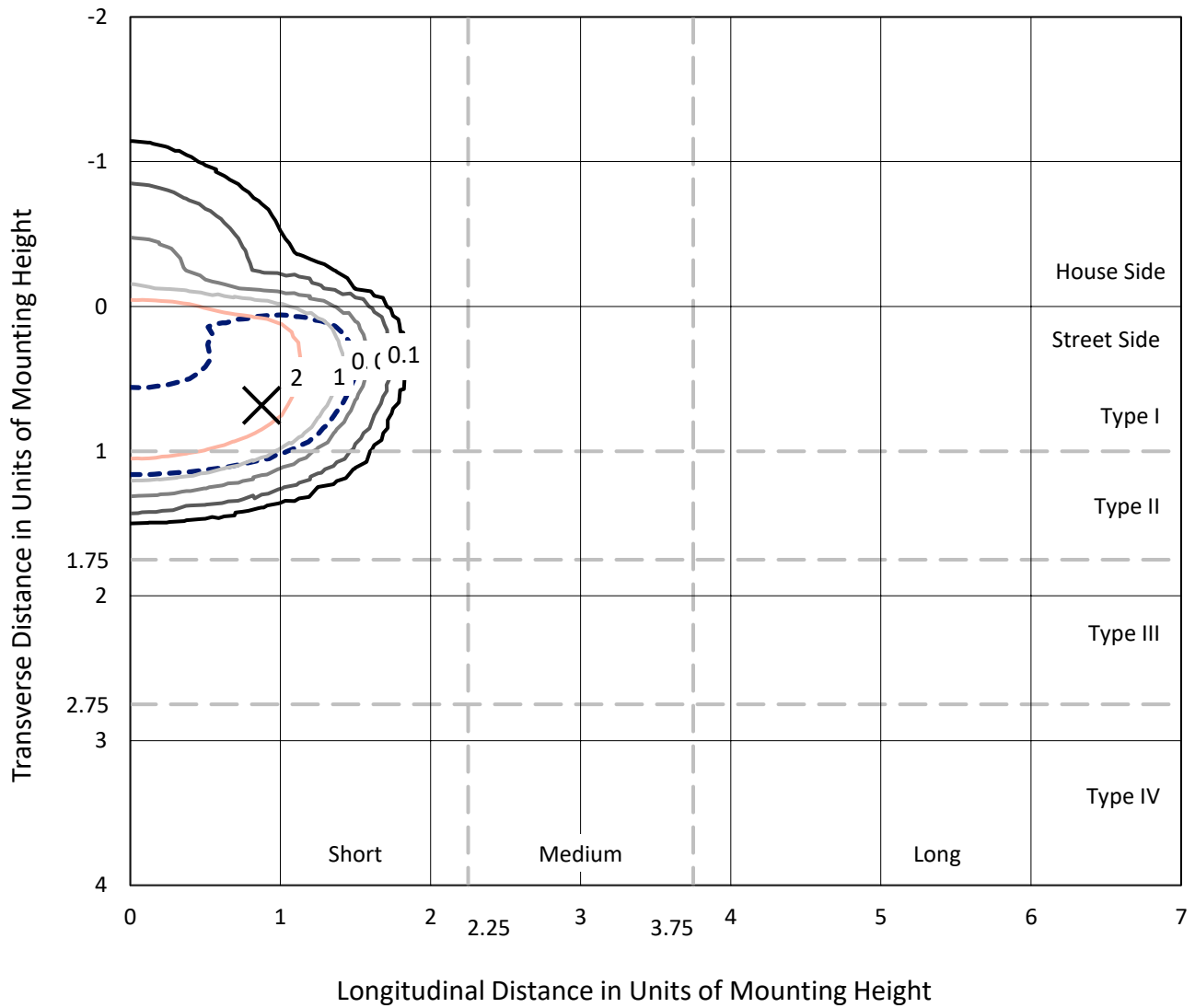
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

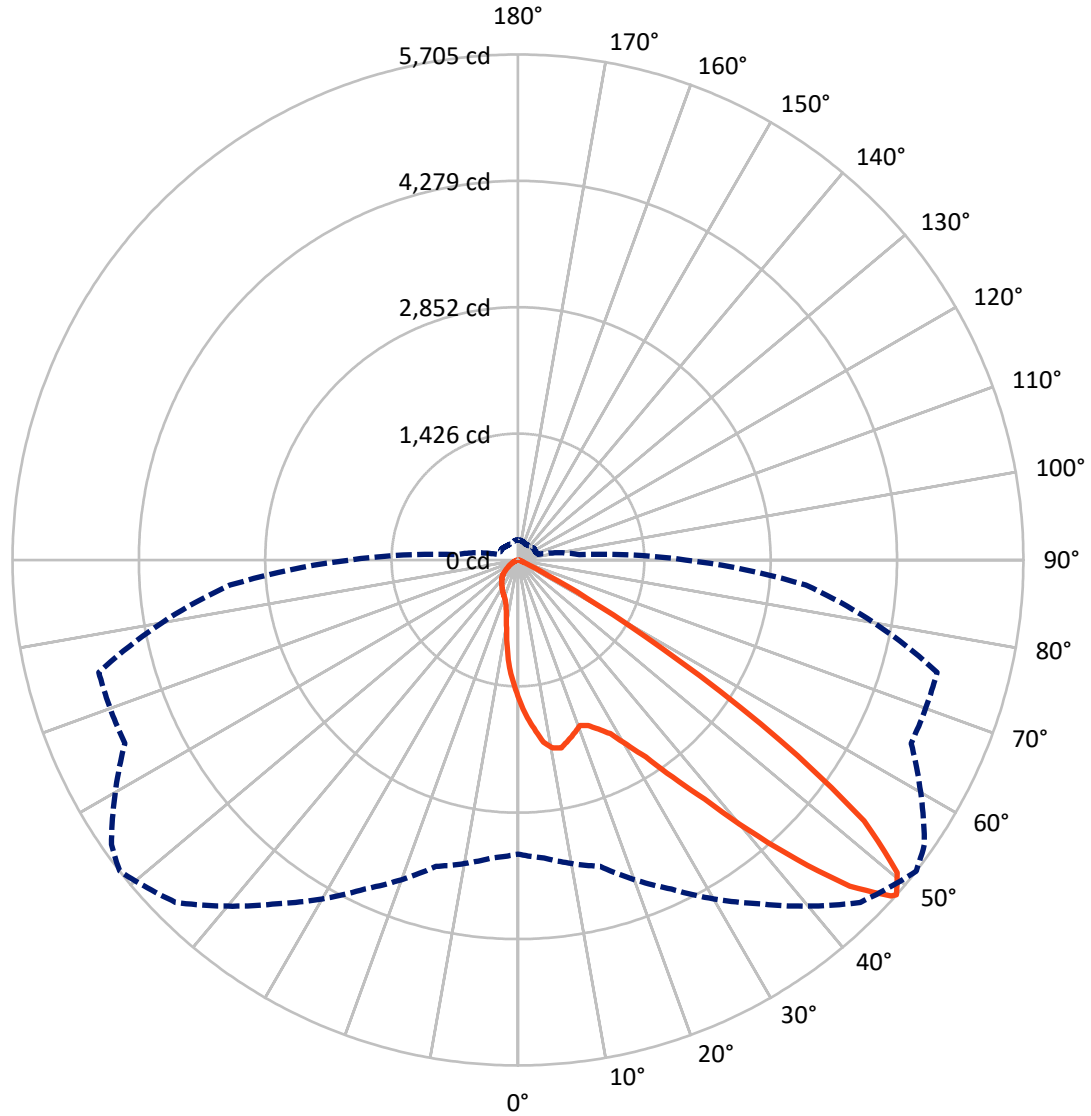
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 48-Deg Vertical

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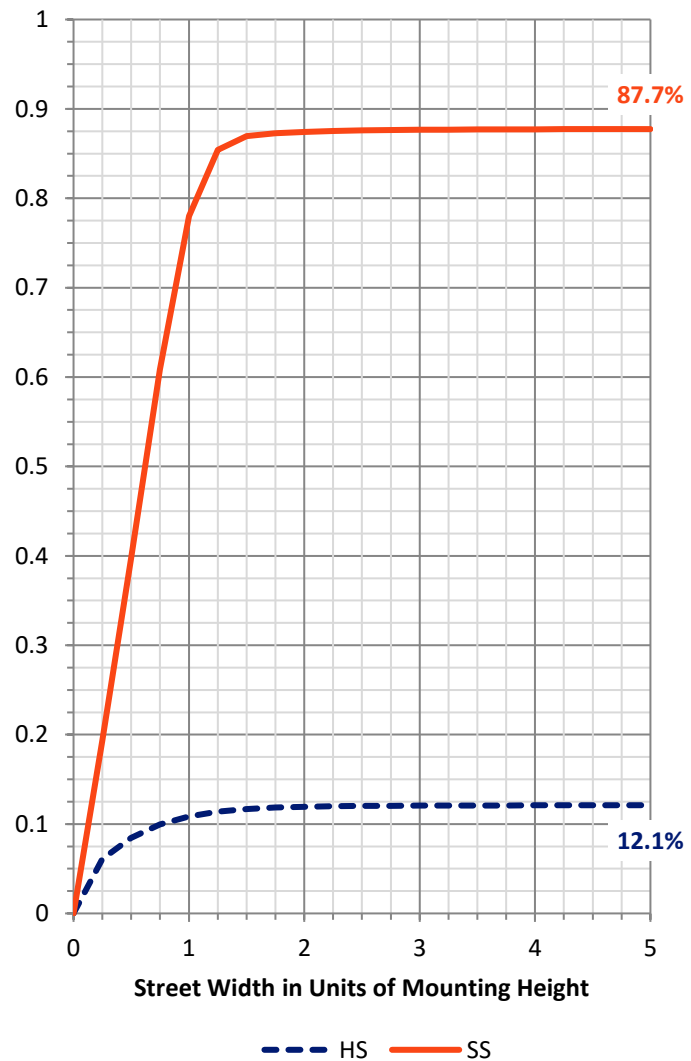
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	662.2	0.0	662.2
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	4776.8	0.0	4776.8
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	5439.0	0.0	5439.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.8	2.6
10°-20°	375.7	6.9
20°-30°	641.5	11.8
30°-40°	1181.3	21.7
40°-50°	1834.5	33.7
50°-60°	1104.1	20.3
60°-70°	127.7	2.3
70°-80°	24.7	0.5
80°-90°	5.7	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°	5439.0	100.0
0°-180°	5439.0	100.0



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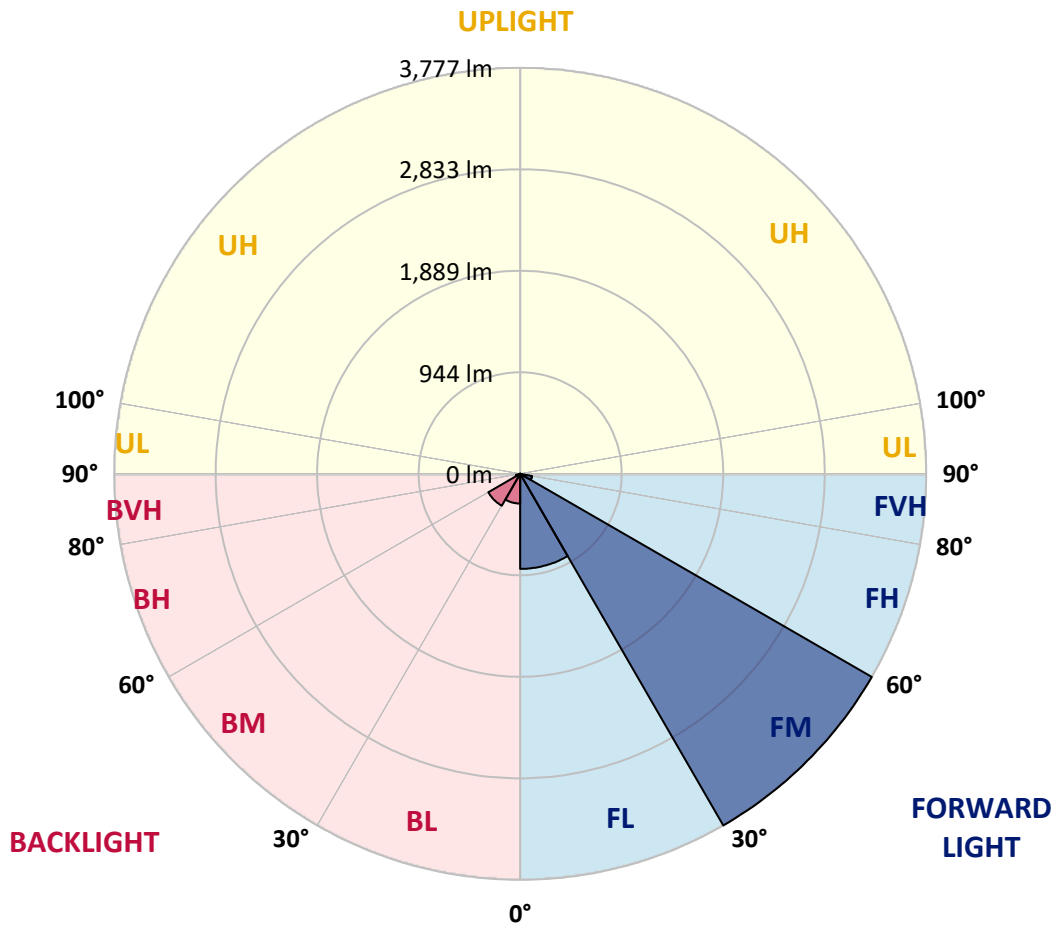
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	884.3	16.3			
FM (30°-60°)	3777.3	69.4			
FH (60°-80°)	112.4	2.1			G0/660
FVH (80°-90°)	2.7	0.1			G0/10
BL (0°-30°)	276.6	5.1	B1/500		
BM (30°-60°)	342.6	6.3	B1/1000		
BH (60°-80°)	40.0	0.7	B0/110		G0/110
BVH (80°-90°)	3.0	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°	1570.7	1570.7	1570.7	1570.7	1570.7	1570.7	1570.7	1570.7	1570.7	1570.7	1570.7
2.5°	1903.7	1860.1	1864.1	1835.5	1818.9	1791.9	1755.4	1748.3	1708.7	1654.7	1600.0
5°	2075.0	2064.7	2078.1	2036.9	2038.5	1994.1	1908.5	1910.0	1818.9	1730.9	1646.0
7.5°	2086.1	2062.3	2075.8	2112.2	2133.6	2125.7	2077.3	2035.3	1948.9	1819.7	1696.0
10°	1868.0	1913.2	1927.5	1987.7	2073.4	2163.8	2158.2	2160.6	2088.4	1919.6	1738.8
12.5°	1737.2	1707.1	1755.4	1791.9	1921.1	2096.4	2176.5	2193.9	2199.4	2016.3	1781.6
15°	1677.7	1677.7	1685.7	1696.0	1789.5	1951.3	2114.6	2165.4	2285.1	2143.2	1849.0
17.5°	1715.0	1713.4	1724.5	1703.1	1738.0	1862.5	2057.5	2115.4	2381.0	2267.6	1902.1
20°	1828.4	1833.9	1826.8	1764.9	1767.3	1860.9	1994.1	2085.3	2446.0	2375.5	1972.7
22.5°	1986.2	1989.3	1948.9	1881.5	1861.7	1907.7	2030.6	2100.3	2498.4	2504.7	1994.1
25°	2168.5	2155.8	2147.9	2052.8	1992.5	2032.1	2113.0	2153.5	2530.9	2615.7	2055.1
27.5°	2421.5	2396.1	2347.7	2262.9	2218.5	2162.2	2220.1	2286.7	2623.6	2771.1	2121.7
30°	2794.9	2772.7	2678.3	2568.9	2452.4	2396.9	2415.1	2451.6	2790.9	2951.1	2209.8
32.5°	3357.0	3310.3	3173.9	2965.4	2806.8	2653.8	2649.0	2687.9	2940.8	3200.1	2314.4
35°	3976.3	3962.0	3761.4	3546.5	3239.7	3003.4	3007.4	3028.0	3227.8	3526.7	2451.6
37.5°	4387.8	4466.3	4338.6	4107.9	3850.2	3512.5	3426.8	3434.0	3621.9	3913.6	2699.0
40°	4705.7	4639.1	4654.2	4600.3	4424.3	4194.3	4004.8	3967.6	4077.8	4341.8	2944.8
42.5°	4567.0	4570.2	4662.9	4790.6	4834.2	4817.5	4624.1	4553.5	4467.9	4692.3	3178.7
45°	4175.3	4257.0	4377.5	4715.3	5011.8	5290.1	5252.0	5134.7	4737.5	4969.8	3313.4
47.5°	3550.5	3547.3	3744.8	4184.0	4842.9	5494.6	5667.5	5585.0	4928.5	4938.8	3285.7
48°	3319.8	3376.9	3580.6	4097.6	4735.9	5464.5	5704.8	5600.9	4896.0	4897.6	3261.9
50°	2454.0	2443.7	2697.4	3331.7	4230.0	5134.7	5547.8	5628.6	4895.2	4689.1	3095.4
52.5°	1296.4	1340.8	1525.5	2094.8	2990.7	4202.3	4893.6	5019.7	4722.4	4348.1	2855.9
55°	551.1	497.9	639.9	945.9	1682.5	2807.6	3590.2	3870.8	3992.9	3847.8	2498.4
57.5°	196.6	214.9	247.4	356.0	707.2	1536.6	2140.8	2358.8	2766.4	2823.4	1702.3
60°	126.1	128.4	138.8	163.3	265.6	592.3	1015.7	1189.3	1374.1	1418.5	794.5
62.5°	97.5	98.3	103.1	107.0	126.1	229.9	381.4	451.9	469.4	403.6	208.5
65°	81.7	82.5	84.0	84.0	89.6	107.8	133.2	146.7	142.7	141.1	118.1
67.5°	62.6	64.2	67.4	67.4	70.6	65.8	73.7	78.5	88.8	107.8	100.7
70°	49.2	50.0	52.3	53.9	53.9	47.6	53.1	57.9	65.0	80.1	79.3
72.5°	38.1	39.6	41.2	41.2	38.9	32.5	38.1	42.0	46.8	55.5	53.9
75°	29.3	29.3	30.1	24.6	19.0	16.7	23.0	27.8	34.9	36.5	30.1
77.5°	7.9	8.7	7.9	7.1	7.9	11.9	15.1	17.4	22.2	22.2	19.8
80°	0.0	0.8	2.4	4.8	7.9	11.1	13.5	15.1	17.4	19.0	18.2
82.5°	0.0	0.8	2.4	4.8	7.1	8.7	11.9	12.7	14.3	16.7	16.7
85°	0.0	0.8	1.6	3.2	4.8	5.6	5.6	4.8	4.8	4.0	3.2
87.5°	0.0	0.0	0.8	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4
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°	1570.7	1570.7	1570.7	1570.7	1570.7	1570.7	1570.7	1570.7	1570.7	1570.7	1570.7
2.5°	1578.6	1554.0	1516.8	1458.1	1401.8	1365.3	1330.5	1291.6	1270.2	1268.6	1256.7
5°	1597.7	1542.1	1453.3	1352.7	1244.8	1152.1	1058.5	997.4	942.7	912.6	907.1
7.5°	1608.0	1535.8	1392.3	1223.4	1039.5	888.0	783.4	706.5	676.3	654.1	653.3
10°	1629.4	1524.7	1301.1	1052.2	824.6	671.6	599.4	564.5	547.9	541.5	532.0
12.5°	1645.2	1504.1	1207.6	876.1	651.7	556.6	524.9	517.0	517.7	520.9	517.0
15°	1667.4	1485.9	1081.5	719.1	547.1	501.1	501.1	502.7	513.8	515.4	514.6
17.5°	1665.8	1450.2	951.5	592.3	483.7	477.3	479.7	494.8	501.9	504.3	498.7
20°	1684.9	1416.9	817.5	505.9	448.0	457.5	473.3	477.3	486.0	487.6	481.3
22.5°	1679.3	1333.6	693.0	437.7	421.0	439.3	455.1	459.9	457.5	452.7	451.9
25°	1669.0	1262.3	578.8	392.5	401.2	421.0	436.1	427.4	422.6	423.4	424.2
27.5°	1650.8	1171.9	484.4	360.8	374.2	403.6	402.8	399.6	404.4	400.4	404.4
30°	1647.6	1081.5	406.7	332.2	354.4	375.8	377.4	383.0	388.5	381.4	388.5
32.5°	1652.4	982.4	351.2	314.8	342.5	343.3	360.8	366.3	362.3	346.5	348.1
35°	1688.8	906.3	310.8	305.3	323.5	324.3	340.9	333.8	316.4	306.8	312.4
37.5°	1765.7	842.8	291.8	296.5	298.1	308.4	309.2	295.0	296.5	295.7	298.9
40°	1864.1	794.5	278.3	288.6	287.0	294.2	265.6	273.5	280.7	283.1	284.6
42.5°	1931.5	759.6	269.6	275.9	272.8	260.1	244.2	252.1	257.7	266.4	268.0
45°	1961.6	731.8	259.3	253.7	253.7	230.7	224.4	226.0	238.7	248.2	246.6
47.5°	1912.4	704.9	241.0	224.4	229.9	210.9	203.8	203.8	217.2	229.1	226.8
48°	1893.4	693.8	241.8	218.0	222.0	207.7	200.6	199.0	214.1	225.2	225.2
50°	1799.0	652.5	221.2	200.6	192.7	191.1	186.3	187.9	197.4	207.7	207.7
52.5°	1615.1	563.7	187.1	172.1	157.8	167.3	169.7	166.5	171.3	180.8	180.0
55°	1347.9	432.9	149.9	142.7	131.6	141.9	146.7	142.7	138.0	145.1	145.1
57.5°	863.4	233.1	119.7	121.3	110.2	120.5	124.5	115.0	106.2	111.8	111.0
60°	389.3	139.5	98.3	95.9	88.8	100.7	107.0	95.9	84.0	88.0	92.0
62.5°	145.9	99.1	74.5	72.9	71.4	82.5	85.6	76.9	65.0	67.4	68.2
65°	107.0	87.2	59.5	53.9	57.1	65.0	63.4	54.7	46.8	46.8	48.4
67.5°	91.2	76.1	48.4	42.0	42.0	42.8	39.6	34.9	32.5	34.1	35.7
70°	71.4	60.3	38.1	32.5	29.3	26.2	23.0	22.2	19.8	22.2	21.4
72.5°	46.0	40.4	29.3	24.6	22.2	18.2	15.1	14.3	11.9	11.1	11.1
75°	24.6	24.6	23.0	19.8	17.4	14.3	11.9	9.5	6.3	4.8	4.8
77.5°	17.4	19.0	20.6	19.0	15.9	11.9	9.5	6.3	3.2	1.6	1.6
80°	16.7	19.0	20.6	18.2	15.9	11.9	8.7	4.8	2.4	0.8	0.8
82.5°	15.1	17.4	19.0	16.7	14.3	10.3	7.9	4.8	2.4	0.8	0.8
85°	3.2	4.0	4.8	4.8	5.6	7.1	5.6	4.0	1.6	0.8	0.8
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6	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)