

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: P526082

Luminaire Tested: **GALN-SA1A-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH  
WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3535 lumens  
Efficiency: N/A  
Efficacy: 107.1 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

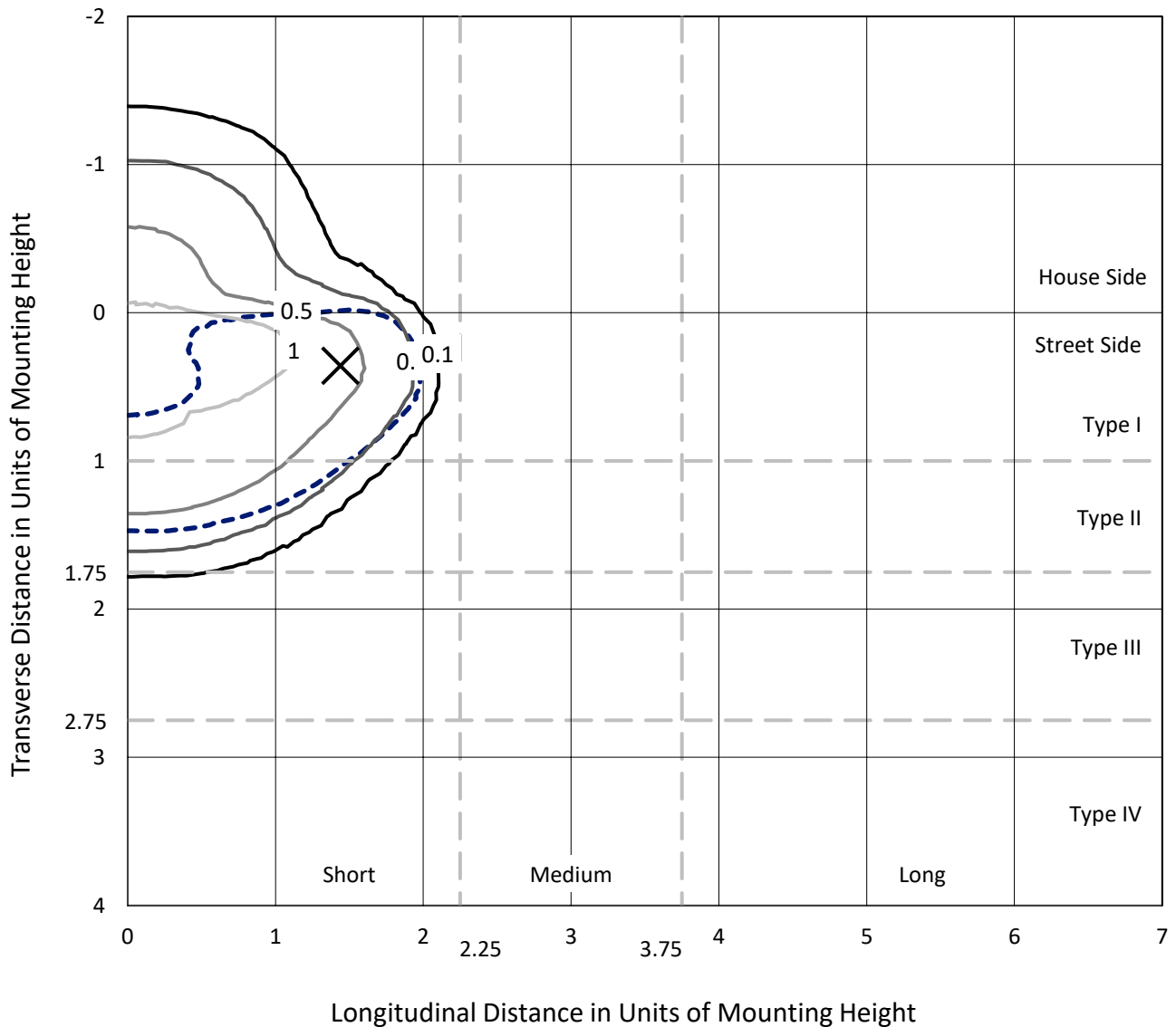
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

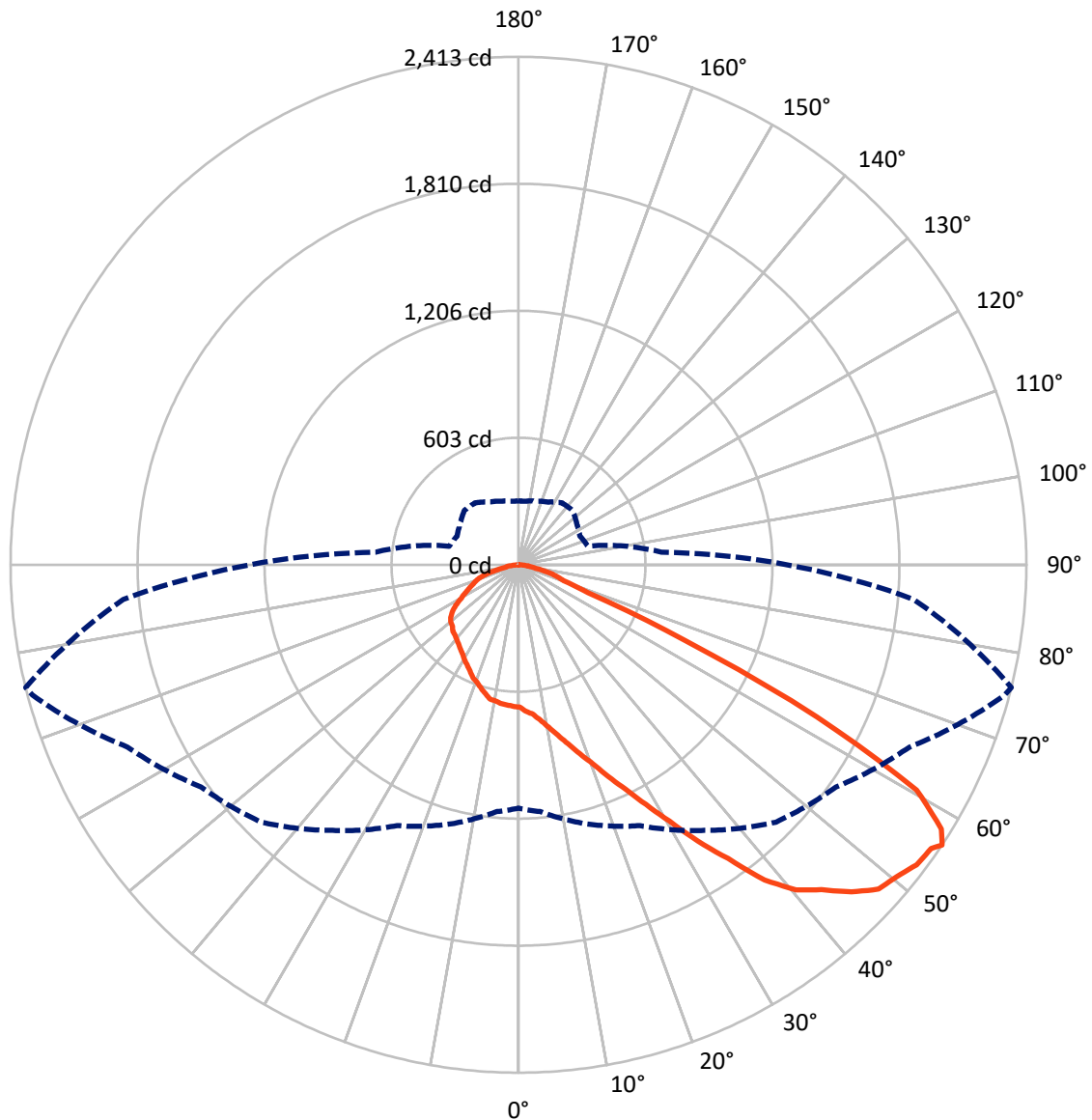
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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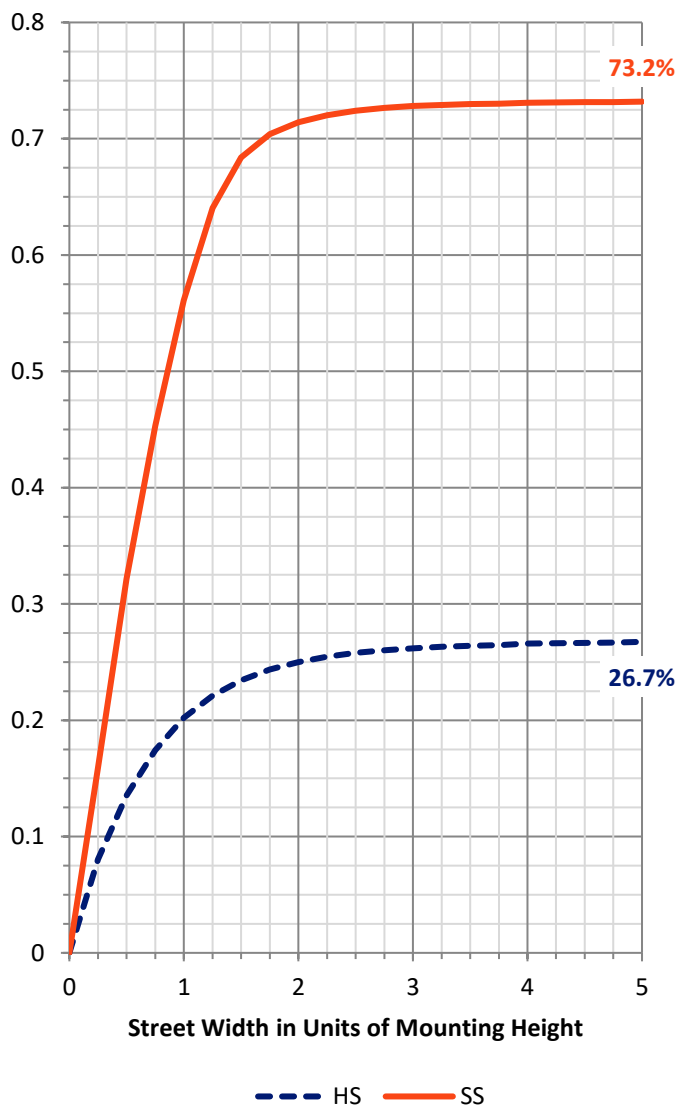
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	950.5	0.0	950.5
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	2584.5	0.0	2584.5
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	3535.0	0.0	3535.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.1	1.9
10°-20°	210.7	6.0
20°-30°	368.5	10.4
30°-40°	577.0	16.3
40°-50°	839.3	23.7
50°-60°	922.5	26.1
60°-70°	411.7	11.6
70°-80°	118.9	3.4
80°-90°	19.3	0.5
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°	3535.0	100.0
0°-180°	3535.0	100.0

**Coefficient of Utilization**

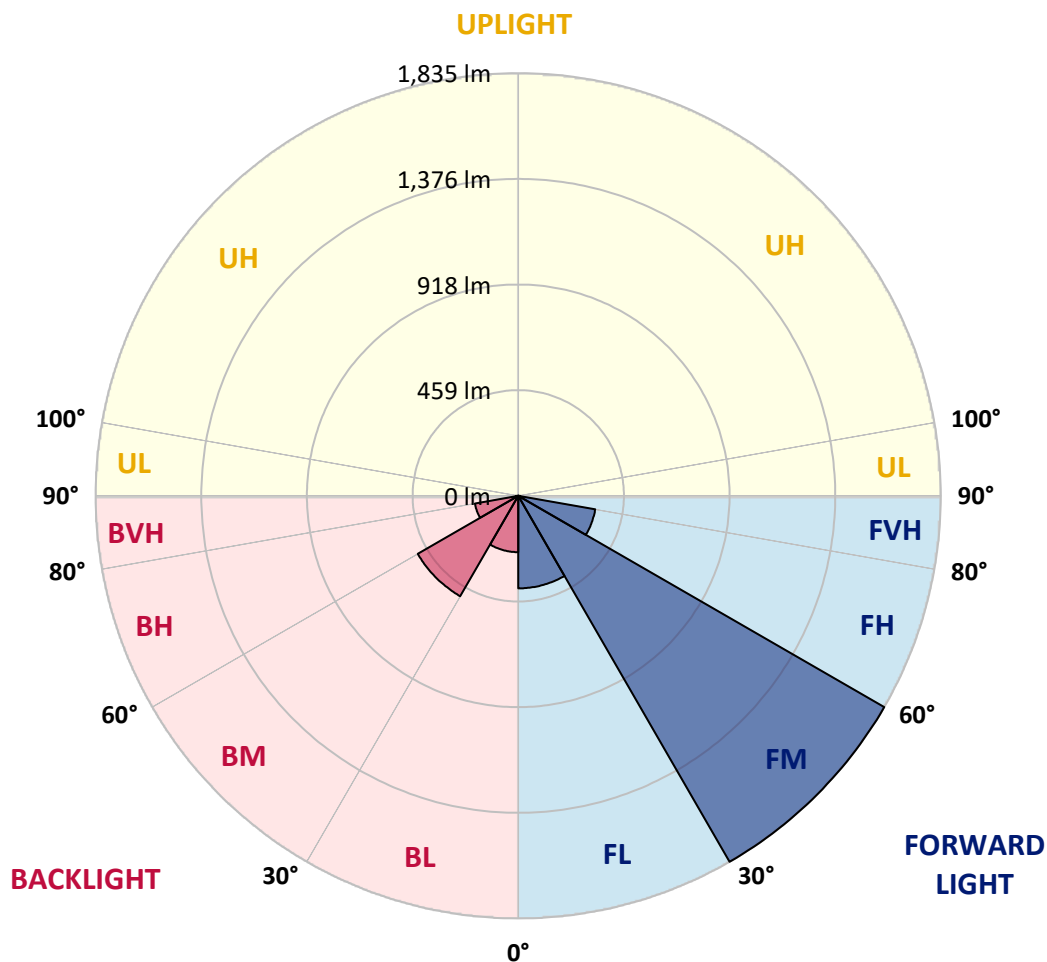


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.7	11.4			
FM (30°-60°)	1835.1	51.9			
FH (60°-80°)	339.4	9.6			G0/660
FVH (80°-90°)	8.3	0.2			G0/10
BL (0°-30°)	244.6	6.9	B1/500		
BM (30°-60°)	503.7	14.2	B1/1000		
BH (60°-80°)	191.2	5.4	B1/500		G1/500
BVH (80°-90°)	11.0	0.3			G1/100
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°	65°	75°	76°	85°
0°	676.4	676.4	676.4	676.4	676.4	676.4	676.4	676.4	676.4	676.4	676.4
2.5°	745.1	733.2	732.3	729.1	730.9	722.7	714.0	702.5	690.6	697.9	680.5
5°	797.4	781.3	787.7	776.7	778.1	767.1	749.2	735.9	721.3	712.6	700.2
7.5°	815.7	817.1	821.6	819.8	810.6	810.6	798.7	775.4	749.7	744.7	724.0
10°	840.4	840.9	835.8	837.2	850.1	844.1	833.6	823.5	790.5	784.5	747.9
12.5°	849.1	840.9	849.1	856.5	871.6	879.8	877.5	870.2	834.9	830.8	777.2
15°	850.5	845.5	852.3	868.8	882.1	917.0	934.4	929.3	882.6	883.0	810.2
17.5°	844.1	851.0	853.7	867.9	898.6	931.2	981.6	988.4	950.0	944.0	851.9
20°	852.8	847.8	851.4	864.3	905.0	955.9	1021.9	1067.3	1013.2	1009.1	895.0
22.5°	886.3	879.4	878.5	886.7	916.0	968.7	1064.5	1146.1	1090.2	1092.5	948.6
25°	912.4	916.0	912.8	912.4	930.7	988.0	1120.9	1240.0	1194.7	1181.4	1011.8
27.5°	957.3	966.0	959.6	968.3	964.2	1016.9	1161.2	1344.0	1307.4	1289.5	1069.1
30°	1019.6	1024.2	1018.2	1018.2	1005.9	1057.2	1197.9	1452.7	1437.5	1413.2	1136.5
32.5°	1101.6	1108.5	1096.6	1089.7	1087.9	1117.2	1263.9	1559.9	1585.5	1564.9	1225.8
35°	1210.2	1206.1	1191.9	1185.5	1160.7	1209.3	1361.9	1683.2	1750.5	1713.9	1334.0
37.5°	1306.0	1299.6	1298.7	1262.9	1268.9	1308.8	1445.3	1776.6	1910.4	1899.9	1448.1
40°	1395.4	1401.3	1411.0	1390.8	1381.6	1425.6	1542.5	1848.1	2034.6	2030.5	1536.1
42.5°	1491.1	1485.6	1502.6	1485.6	1471.9	1534.2	1647.9	1897.6	2143.7	2109.8	1628.2
45°	1630.0	1612.6	1618.5	1619.9	1609.8	1632.7	1691.4	1933.4	2220.2	2216.6	1695.5
47.5°	1745.9	1746.4	1736.3	1728.5	1697.8	1720.7	1740.0	1955.8	2308.2	2302.2	1721.6
50°	1789.0	1783.1	1812.4	1829.3	1831.2	1784.4	1778.0	1968.2	2354.5	2328.4	1747.8
52.5°	1634.1	1639.6	1685.9	1786.7	1844.9	1850.0	1822.5	1993.8	2373.3	2367.8	1768.8
55°	1315.2	1341.8	1417.8	1534.2	1672.2	1823.8	1870.6	2020.4	2383.4	2378.8	1862.3
56°	1156.2	1176.8	1275.8	1367.0	1540.2	1729.0	1840.3	2048.8	2391.1	2412.7	1884.3
57.5°	930.7	954.5	1025.6	1129.1	1333.5	1548.4	1756.9	2014.0	2360.9	2369.2	1900.4
60°	582.0	584.3	669.5	737.8	881.7	1091.6	1340.8	1752.3	2184.9	2173.0	1707.0
62.5°	381.7	382.2	459.6	515.5	581.1	629.2	789.1	1162.1	1612.1	1591.0	1215.3
65°	268.1	274.0	334.1	408.8	435.3	410.1	405.1	612.7	900.5	870.2	653.0
67.5°	196.1	196.6	249.7	329.9	368.4	312.1	253.4	299.2	356.5	355.6	302.4
70°	129.7	135.2	176.0	246.5	290.5	250.7	207.1	214.0	226.8	226.8	225.0
72.5°	75.6	80.7	107.7	156.3	163.1	156.7	164.1	183.3	191.5	191.1	188.8
75°	43.1	45.4	51.3	65.1	81.1	95.8	120.5	138.8	147.1	152.1	146.2
77.5°	25.2	26.6	30.2	37.1	42.2	51.8	65.5	78.4	89.4	88.0	88.9
80°	13.3	13.3	17.0	22.0	29.3	36.7	43.5	50.9	56.8	58.2	59.6
82.5°	7.8	8.2	11.0	16.0	21.1	26.1	33.5	38.5	44.0	44.5	45.4
85°	4.1	4.6	6.9	10.5	14.2	16.0	16.5	15.6	17.0	16.0	18.3
87.5°	1.4	1.4	2.3	1.8	1.8	2.3	2.7	2.7	3.7	3.7	3.7
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°	676.4	676.4	676.4	676.4	676.4	676.4	676.4	676.4	676.4	676.4	676.4
2.5°	680.0	680.0	672.3	657.6	655.3	649.3	643.8	643.4	639.3	635.6	633.8
5°	692.9	678.7	667.2	653.9	638.3	631.0	622.8	613.6	609.9	613.6	613.1
7.5°	707.5	695.6	661.3	636.5	618.6	611.3	602.1	592.5	593.4	593.4	587.0
10°	721.7	705.7	650.7	619.1	593.0	587.5	582.4	586.1	590.7	591.6	587.5
12.5°	745.6	709.4	645.7	601.7	585.2	573.3	576.5	586.6	596.2	593.4	596.6
15°	763.4	712.6	622.8	583.8	563.2	568.7	580.1	587.0	603.1	601.2	604.4
17.5°	780.9	714.4	600.3	560.0	551.3	566.4	575.1	594.8	599.8	610.8	615.0
20°	816.6	718.1	577.4	545.3	542.6	560.0	575.1	584.3	595.3	604.9	604.9
22.5°	834.9	716.2	562.3	526.1	534.8	545.8	559.5	575.1	575.1	584.3	584.7
25°	857.8	708.9	538.4	516.9	523.3	533.9	549.4	543.9	549.9	549.9	557.2
27.5°	884.0	693.3	517.8	500.4	513.2	524.7	527.0	523.3	516.4	515.5	512.8
30°	905.0	674.1	502.7	494.9	505.4	511.9	504.5	496.7	484.8	483.9	477.5
32.5°	933.9	650.3	483.9	481.2	493.1	493.5	491.2	479.3	461.9	454.6	447.3
35°	982.5	636.5	469.7	473.8	477.5	476.1	472.0	459.2	441.8	438.5	435.8
37.5°	1018.2	626.4	455.0	460.1	463.3	465.1	452.8	438.5	439.0	432.6	430.8
40°	1058.6	620.0	443.1	445.4	445.9	451.8	436.7	429.8	433.0	428.9	431.7
42.5°	1110.3	621.8	430.8	428.9	437.6	435.3	428.0	418.8	420.7	408.3	410.1
45°	1137.8	634.2	423.4	415.2	424.8	424.3	414.7	406.0	395.0	371.2	372.1
47.5°	1156.2	637.4	406.0	400.5	410.6	416.5	405.6	385.4	369.8	352.9	348.7
50°	1175.0	643.4	397.8	386.3	390.4	404.6	390.9	371.6	356.5	341.4	343.7
52.5°	1191.4	654.8	381.7	364.8	372.1	387.7	380.3	357.0	340.5	328.1	324.4
55°	1264.8	680.5	354.7	332.7	350.1	369.8	365.7	337.3	319.4	313.0	312.1
56°	1276.2	681.4	340.5	321.7	337.7	363.9	358.8	328.6	312.5	302.4	302.9
57.5°	1278.1	670.4	320.3	311.6	325.4	355.1	348.7	321.7	299.7	290.5	287.8
60°	1124.5	523.3	295.1	289.6	305.7	328.6	326.3	302.9	278.2	267.6	272.7
62.5°	766.7	383.6	275.4	274.5	282.7	305.2	299.2	278.2	257.5	250.7	247.5
65°	446.3	291.0	256.2	252.5	259.4	271.3	275.4	253.4	231.9	227.3	225.9
67.5°	263.5	240.6	231.4	225.5	223.2	230.5	233.7	220.9	199.3	192.9	198.4
70°	220.4	214.0	214.5	204.4	198.9	193.8	191.1	179.6	161.8	153.5	151.2
72.5°	190.2	187.4	185.6	176.4	171.4	159.9	148.0	136.6	123.3	116.4	116.9
75°	145.3	144.3	145.3	140.7	132.0	122.8	111.8	97.1	87.1	78.4	80.2
77.5°	86.6	89.4	90.7	88.9	85.2	77.0	70.1	60.5	50.9	44.0	43.1
80°	59.6	61.9	64.2	61.9	58.2	52.2	44.9	37.6	30.7	27.0	26.1
82.5°	45.4	47.7	49.0	46.7	42.2	35.7	30.7	25.7	20.2	16.5	15.6
85°	16.5	18.8	18.3	22.0	23.8	22.9	19.7	15.1	11.5	8.2	7.8
87.5°	4.6	4.1	4.6	4.6	4.6	4.1	3.7	3.7	3.7	2.3	1.8
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)