

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: P526319

Luminaire Tested: **GALN-SA1B-730-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-730-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3131 lumens  
Efficiency: N/A  
Efficacy: 71.2 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

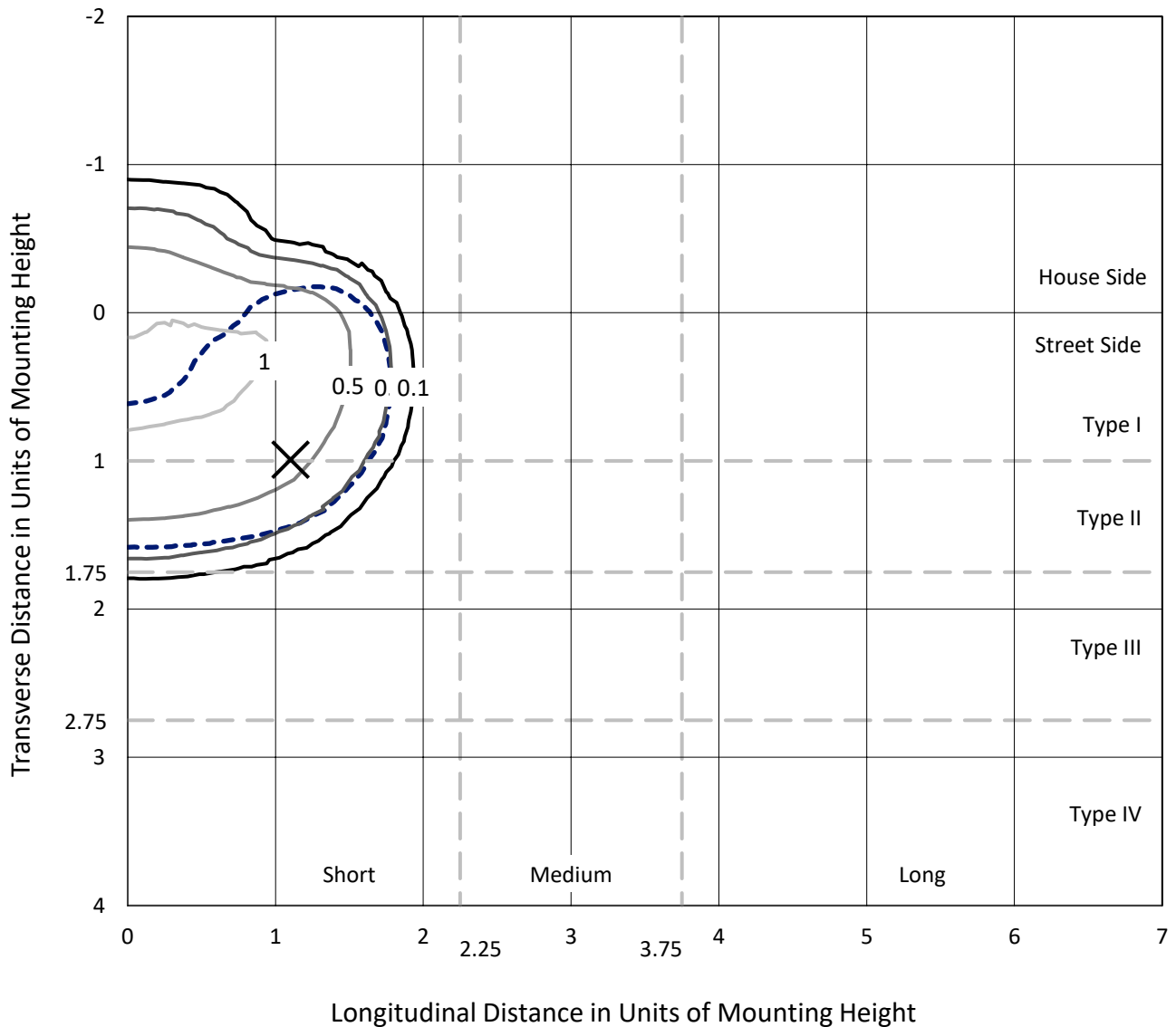
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

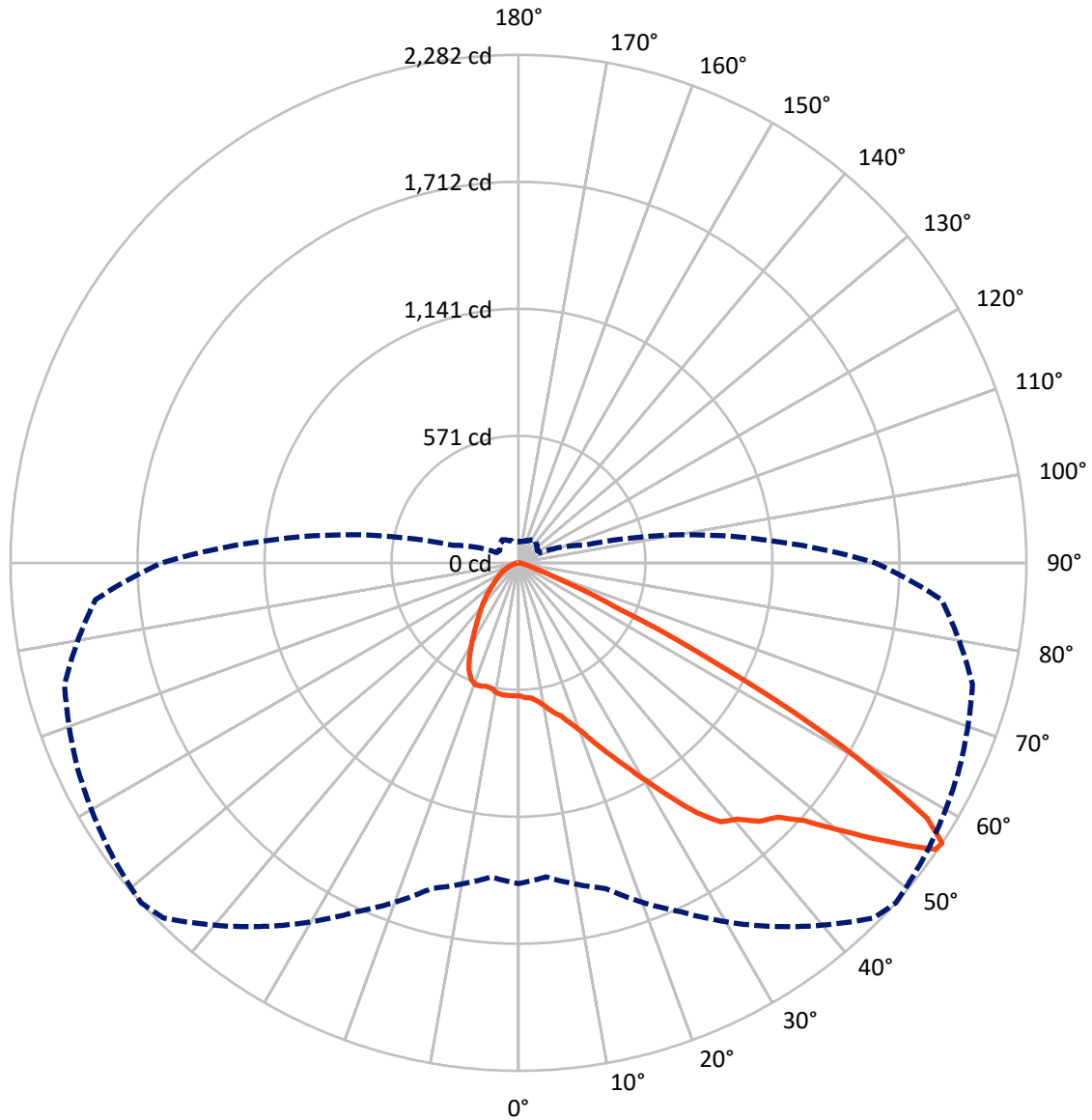
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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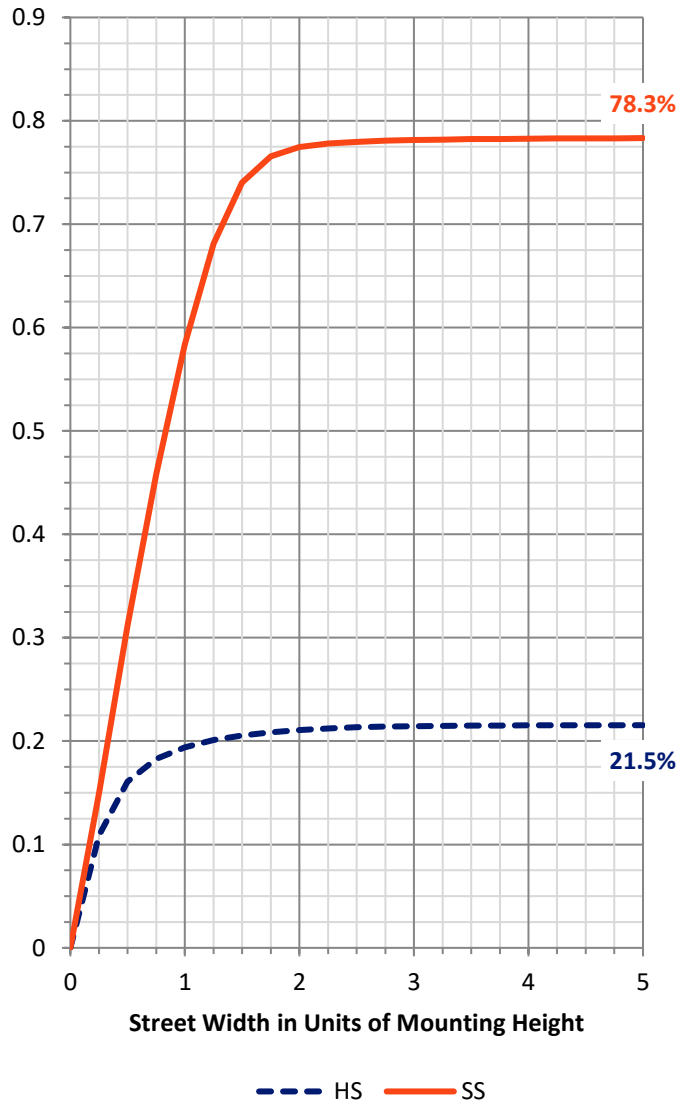
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	680.9	0.0	680.9
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	2450.1	0.0	2450.1
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	3131.0	0.0	3131.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.3	1.9
10°-20°	186.2	5.9
20°-30°	337.7	10.8
30°-40°	530.4	16.9
40°-50°	773.8	24.7
50°-60°	932.3	29.8
60°-70°	273.0	8.7
70°-80°	34.6	1.1
80°-90°	4.9	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°	3131.0	100.0
0°-180°	3131.0	100.0

**Coefficient of Utilization**

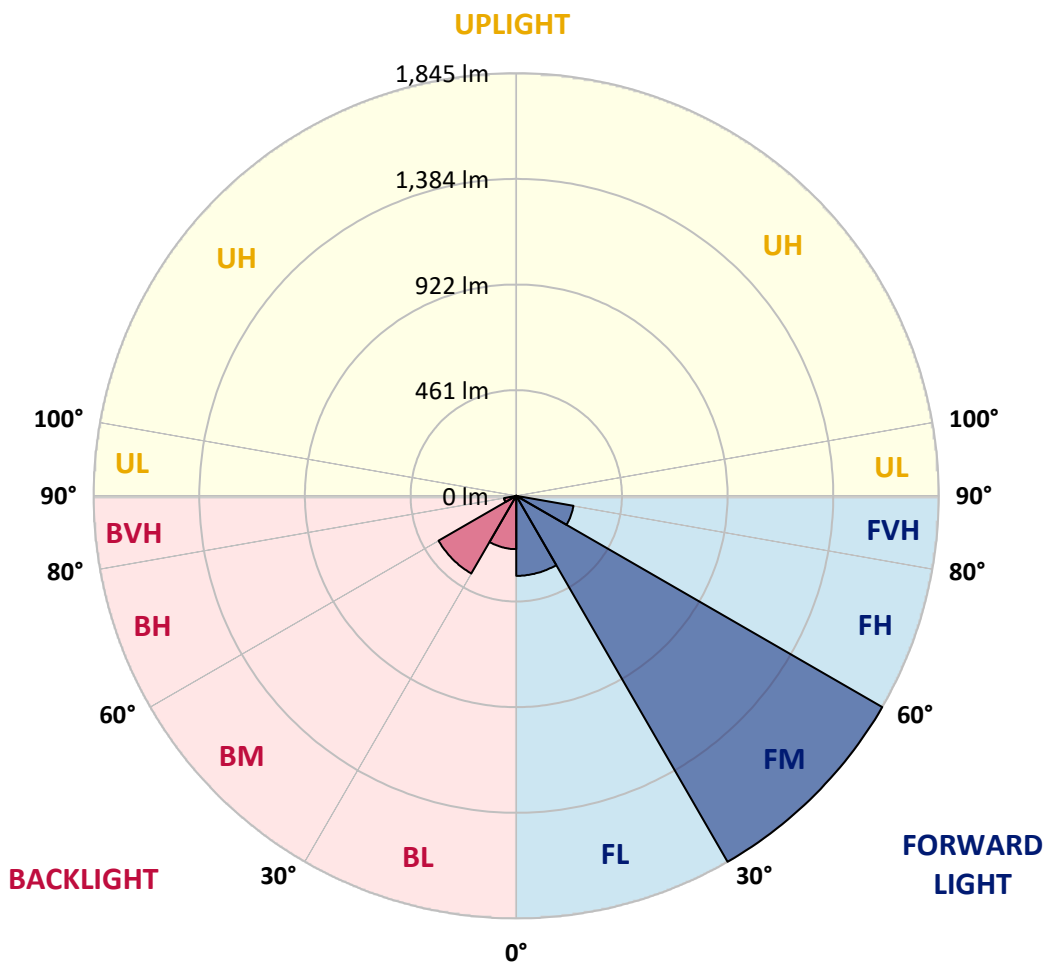


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.4	11.2			
FM (30°-60°)	1844.8	58.9			
FH (60°-80°)	253.5	8.1			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	232.7	7.4	B1/500		
BM (30°-60°)	391.7	12.5	B1/1000		
BH (60°-80°)	54.1	1.7	B0/110		G0/110
BVH (80°-90°)	2.4	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°	48°	55°	65°	75°	85°
0°	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
2.5°	608.9	606.0	606.0	601.4	606.6	604.3	606.0	600.3	606.0	597.5	604.3
5°	611.7	612.3	610.0	612.8	612.8	616.3	610.6	615.7	618.5	612.3	609.4
7.5°	626.5	627.7	627.1	624.8	629.4	628.8	628.2	624.2	625.4	623.1	619.7
10°	655.6	655.0	657.9	652.2	648.8	652.8	653.9	647.6	643.1	641.3	630.5
12.5°	697.8	690.9	687.0	681.3	683.0	677.3	687.5	676.7	674.4	664.2	653.3
15°	732.0	730.9	731.4	722.3	712.0	714.3	714.3	708.6	705.2	692.7	677.3
17.5°	802.1	778.2	783.3	771.9	763.3	762.8	757.6	758.8	749.7	723.4	700.1
20°	856.8	846.6	838.6	819.2	806.1	810.1	807.8	802.1	799.3	765.1	732.0
22.5°	905.9	909.3	896.2	891.0	872.8	874.5	879.1	873.9	852.3	816.9	767.9
25°	974.9	970.9	953.2	946.9	929.8	936.1	953.8	949.8	936.1	872.2	795.8
27.5°	1056.4	1042.7	1046.1	1017.6	1001.1	1018.7	1039.8	1059.8	1021.0	937.2	828.9
30°	1114.0	1099.7	1098.6	1097.4	1093.4	1114.0	1138.5	1156.7	1125.4	1002.2	883.6
32.5°	1142.5	1145.9	1155.6	1152.1	1186.9	1229.1	1254.8	1281.0	1241.7	1108.3	956.0
35°	1218.3	1196.6	1218.3	1220.6	1256.5	1346.0	1378.5	1441.2	1431.5	1258.2	1044.4
37.5°	1262.7	1261.0	1263.9	1285.5	1320.3	1430.9	1477.1	1525.6	1507.3	1348.3	1154.4
40°	1336.3	1340.8	1340.3	1356.8	1395.0	1494.8	1513.6	1552.9	1554.6	1473.1	1316.3
42.5°	1454.3	1436.1	1424.1	1441.2	1494.8	1550.1	1587.7	1579.7	1636.2	1624.8	1524.4
45°	1560.3	1571.2	1553.5	1582.0	1601.4	1631.0	1629.9	1647.0	1718.8	1773.0	1681.2
47.5°	1659.5	1666.4	1674.9	1694.3	1736.5	1741.0	1731.4	1723.9	1823.1	1879.0	1802.6
50°	1718.8	1725.1	1765.0	1799.8	1878.4	1888.7	1894.4	1875.6	1942.9	1949.1	1917.2
52.5°	1702.9	1709.7	1765.6	1880.2	2005.6	2099.6	2082.5	2050.6	2046.6	2071.1	2023.2
55°	1561.5	1555.2	1632.2	1810.6	2045.5	2271.2	2273.5	2239.9	2175.5	2158.9	2007.3
56°	1441.2	1416.7	1514.7	1730.2	1994.2	2256.4	2282.1	2246.1	2185.7	2111.6	1908.7
57.5°	1180.7	1204.0	1301.5	1479.9	1816.9	2149.8	2164.6	2156.1	2110.5	1986.2	1679.5
60°	651.0	692.1	778.2	996.5	1293.5	1649.8	1661.8	1731.4	1739.9	1521.0	1155.6
62.5°	276.5	271.9	361.4	522.2	736.6	995.9	1018.2	1089.4	1102.6	876.8	579.8
65°	112.3	118.6	163.6	262.8	389.4	453.8	485.1	508.5	551.8	362.0	213.8
67.5°	74.1	73.5	96.3	149.9	209.8	202.4	202.4	213.8	197.8	147.7	92.4
70°	53.0	54.7	69.0	103.8	130.6	96.9	92.9	88.9	100.9	97.5	74.7
72.5°	34.8	37.1	46.2	62.1	67.8	53.0	53.0	63.8	83.2	78.7	61.0
75°	22.8	23.4	28.5	35.9	33.6	27.4	30.2	42.8	60.4	58.1	43.3
77.5°	15.4	16.0	19.4	23.4	18.8	15.4	16.5	21.7	29.6	29.6	22.8
80°	5.7	6.3	8.0	7.4	8.6	10.8	12.0	14.8	17.7	17.7	15.4
82.5°	0.0	0.6	1.7	4.0	6.3	8.6	9.7	11.4	13.1	14.8	14.3
85°	0.0	0.6	1.7	2.9	4.6	5.1	5.7	4.0	3.4	3.4	2.9
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.1	0.6	0.6
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°	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
2.5°	598.0	597.5	597.5	595.7	599.2	597.5	598.6	598.0	590.6	596.3	592.3
5°	604.3	608.3	602.0	600.9	596.3	598.0	598.0	592.3	597.5	596.9	595.7
7.5°	620.3	613.4	606.6	599.7	598.6	596.9	590.6	588.3	592.3	587.8	594.6
10°	627.1	628.2	618.0	608.9	600.3	588.3	579.8	574.6	568.4	575.2	579.2
12.5°	658.5	647.0	629.4	615.1	586.1	574.1	565.5	563.2	574.1	576.4	572.4
15°	669.3	667.6	644.8	612.8	582.6	568.4	570.1	565.5	566.7	561.0	562.1
17.5°	691.5	672.1	645.3	605.4	582.1	578.6	568.4	550.1	539.9	535.3	539.3
20°	716.0	697.2	658.5	608.3	587.2	578.1	544.4	522.2	501.1	489.7	490.3
22.5°	737.7	714.3	652.8	609.4	591.8	554.1	513.6	469.8	443.5	425.9	426.4
25°	763.9	730.9	655.0	611.7	579.8	515.9	457.8	415.0	383.7	371.7	375.7
27.5°	778.7	741.1	667.6	616.8	548.4	461.8	399.1	359.2	340.9	335.2	334.6
30°	823.2	763.9	683.0	606.6	496.0	403.6	345.5	321.0	303.3	298.2	299.3
32.5°	889.3	805.5	702.9	579.8	442.4	351.7	310.7	292.5	275.9	266.2	265.1
35°	944.6	876.8	724.0	538.2	380.2	311.8	286.2	263.4	238.3	227.5	224.6
37.5°	1050.1	957.2	719.5	475.5	321.0	282.2	260.0	232.0	210.4	195.5	193.8
40°	1190.3	1051.2	697.2	399.1	277.1	256.0	232.0	205.2	178.4	165.9	164.8
42.5°	1360.8	1166.4	656.7	321.5	233.2	229.7	208.1	177.3	153.4	144.2	144.8
45°	1499.3	1265.0	615.7	258.2	200.7	204.1	185.3	156.2	139.7	132.3	132.3
47.5°	1622.5	1331.7	571.2	213.2	170.5	178.4	161.9	144.8	130.6	124.8	123.7
50°	1741.0	1399.6	526.8	172.7	145.4	153.4	151.6	138.0	126.6	119.7	120.3
52.5°	1815.2	1410.4	470.3	141.4	127.1	136.3	142.0	129.4	116.9	112.9	111.7
55°	1724.5	1270.7	364.9	116.3	107.7	119.7	130.6	116.3	106.6	99.8	99.2
56°	1602.5	1136.2	305.0	107.2	102.0	115.2	126.6	111.2	100.3	96.3	93.5
57.5°	1356.8	929.8	225.2	95.2	94.6	107.2	120.3	106.0	93.5	90.1	90.1
60°	846.0	523.3	136.3	79.8	82.1	95.2	108.3	94.6	83.2	83.2	84.9
62.5°	385.4	217.8	82.7	67.8	70.7	82.1	96.3	85.5	79.2	85.5	86.7
65°	131.1	94.1	59.9	54.2	55.9	67.8	82.7	86.7	86.1	90.1	92.4
67.5°	73.5	60.4	50.2	45.0	43.9	50.2	67.8	86.7	83.2	81.5	82.7
70°	62.1	51.3	44.5	39.9	38.2	40.5	52.4	65.6	58.7	57.0	55.9
72.5°	50.2	42.8	38.8	35.9	30.8	26.2	23.9	25.1	27.9	29.6	32.5
75°	35.3	32.5	32.5	29.1	22.2	16.5	13.1	10.8	7.4	5.1	5.7
77.5°	20.0	20.0	20.5	17.7	14.3	10.8	8.0	5.7	2.9	1.1	0.6
80°	13.7	14.8	16.0	14.3	12.0	9.7	6.8	4.0	1.7	0.0	0.0
82.5°	13.7	15.4	16.5	14.3	12.0	9.1	6.8	4.0	1.7	0.6	0.0
85°	2.9	3.4	4.0	4.6	6.8	6.8	5.1	3.4	1.7	0.6	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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)