

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: P648234

Luminaire Tested: **GALN-SA1B-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-835-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2742.1 lumens  
Efficiency: N/A  
Efficacy: 62.3 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

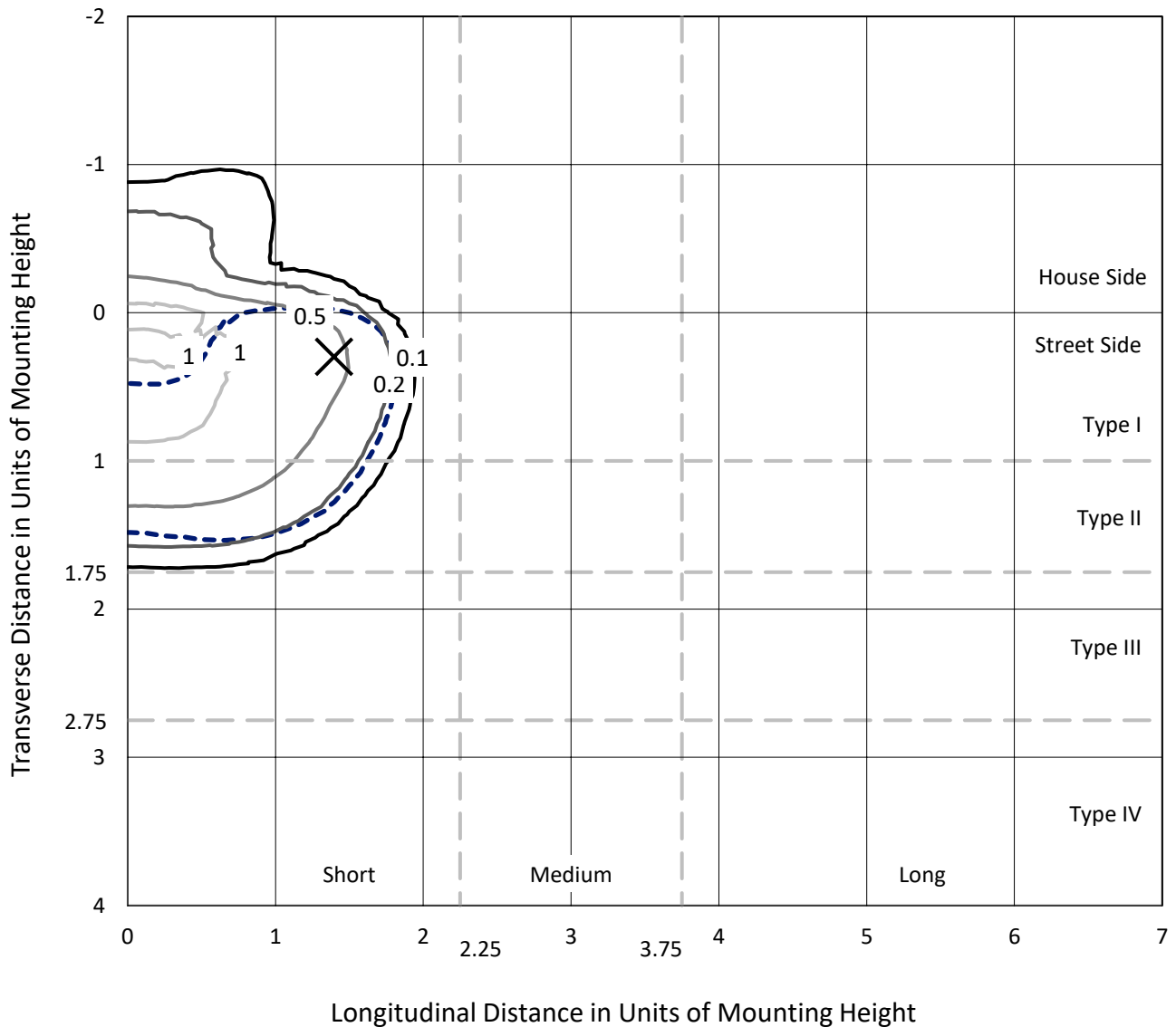
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

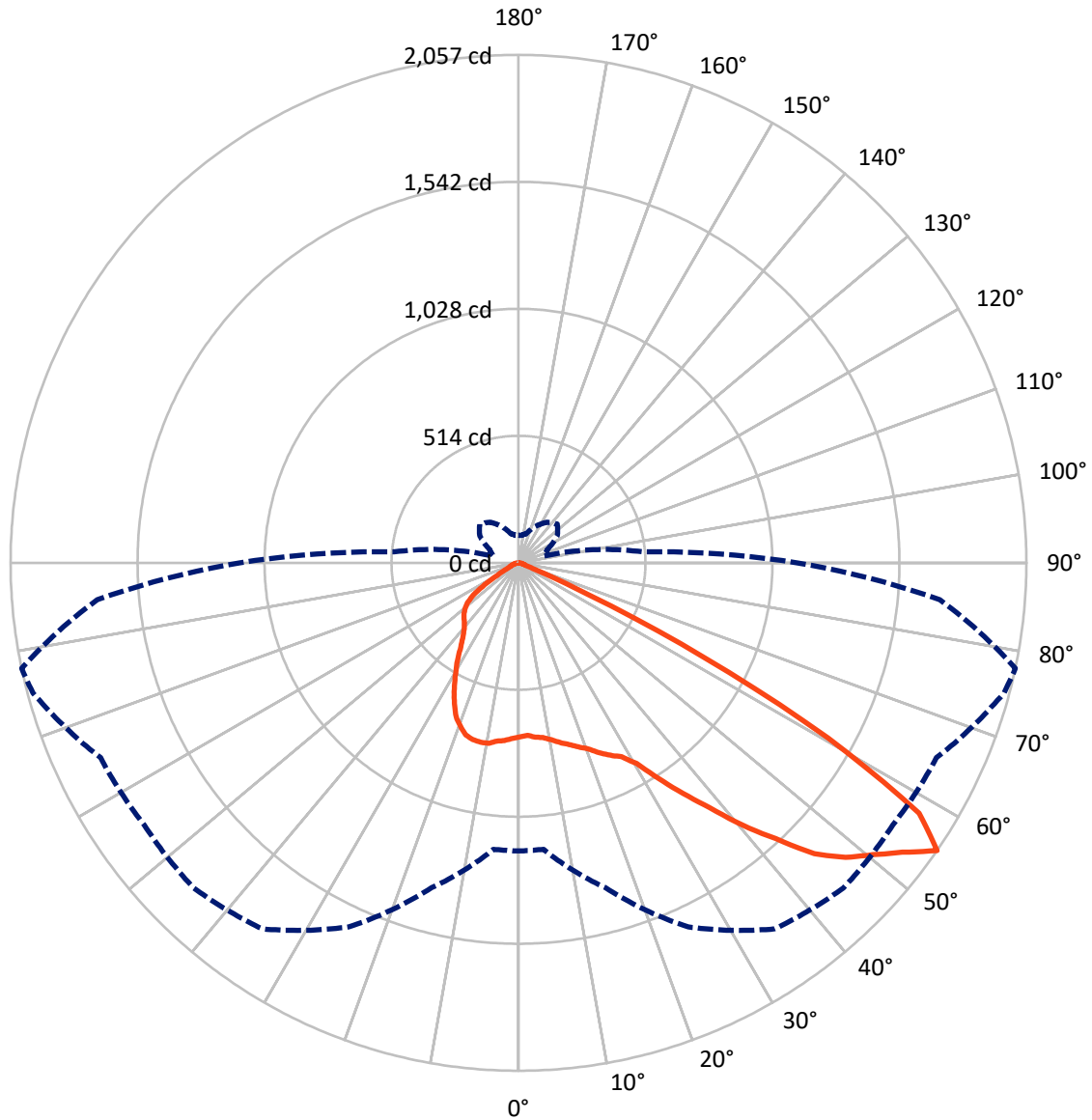
✕ Max cd  
 - - - 1/2 Max cd



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 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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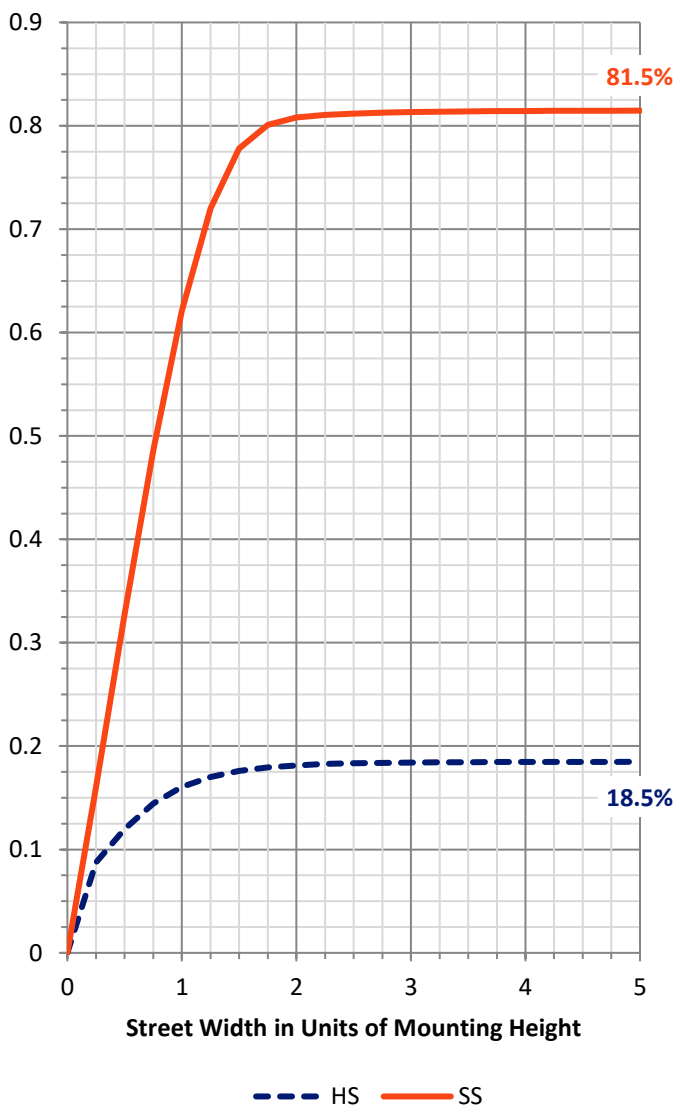
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	509.3	0.0	509.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	2232.8	0.0	2232.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	2742.1	0.0	2742.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.9	2.3
10°-20°	166.4	6.1
20°-30°	291.6	10.6
30°-40°	480.8	17.5
40°-50°	699.7	25.5
50°-60°	792.8	28.9
60°-70°	226.7	8.3
70°-80°	17.6	0.6
80°-90°	3.7	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°	2742.1	100.0
0°-180°	2742.1	100.0

**Coefficient of Utilization**



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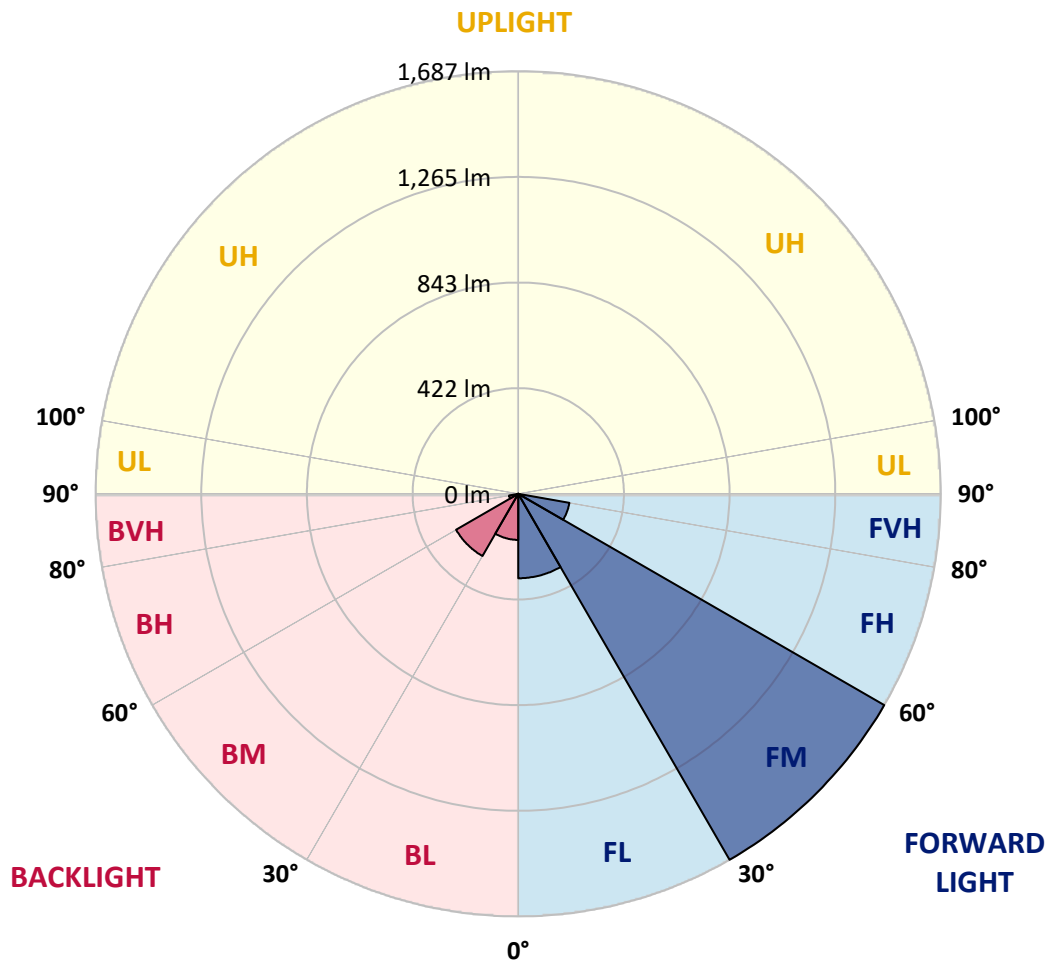
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.1	12.3			
FM (30°-60°)	1686.8	61.5			
FH (60°-80°)	207.1	7.6			G0/660
FVH (80°-90°)	1.8	0.1			G0/10
BL (0°-30°)	183.8	6.7	B1/500		
BM (30°-60°)	286.5	10.4	B1/1000		
BH (60°-80°)	37.2	1.4	B0/110		G0/110
BVH (80°-90°)	1.9	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°	55°	65°	75°	78°	85°
0°	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0
2.5°	662.8	669.2	670.2	678.0	677.5	690.8	694.7	695.1	704.0	699.6	710.9
5°	644.2	640.7	639.3	653.0	656.9	668.7	678.5	684.4	702.5	708.9	720.7
7.5°	627.5	627.5	628.5	640.7	639.3	654.5	664.8	682.9	709.4	714.8	729.0
10°	611.4	605.5	612.9	625.5	636.3	643.2	664.8	681.9	712.8	728.5	748.2
12.5°	603.0	606.0	606.9	616.2	628.0	648.6	660.4	688.8	737.4	746.7	767.7
15°	655.4	649.6	635.4	627.0	636.8	646.7	676.0	705.0	750.1	763.3	786.8
17.5°	716.3	711.4	699.6	677.1	655.0	673.1	696.2	722.6	763.8	783.4	818.2
20°	795.7	787.9	776.1	731.9	712.8	693.2	717.7	749.1	786.4	804.0	839.8
22.5°	890.3	890.3	863.8	810.4	770.7	752.1	762.3	780.5	811.3	835.4	870.7
25°	988.9	985.9	961.9	906.5	839.3	817.2	829.0	841.8	850.1	863.3	886.9
27.5°	1101.6	1084.5	1054.1	992.8	933.4	890.8	903.5	892.2	882.0	888.9	922.7
30°	1178.1	1188.9	1150.1	1091.3	1035.4	987.8	990.3	980.5	933.4	943.3	963.3
32.5°	1257.5	1264.4	1242.8	1210.4	1154.5	1099.2	1079.1	1070.8	1035.4	1039.8	1020.2
35°	1323.7	1336.9	1317.8	1303.6	1287.4	1242.8	1187.4	1214.4	1157.5	1146.7	1095.7
37.5°	1384.5	1380.6	1403.1	1388.4	1385.0	1353.6	1292.8	1298.2	1259.9	1257.5	1198.7
40°	1438.9	1439.9	1470.8	1477.6	1463.9	1408.0	1319.7	1362.4	1393.3	1396.2	1320.8
42.5°	1484.0	1497.3	1523.7	1579.1	1558.5	1465.4	1347.7	1394.3	1509.0	1527.2	1436.4
45°	1523.2	1550.2	1583.1	1632.6	1620.8	1546.7	1417.3	1460.0	1632.6	1680.1	1545.3
47.5°	1525.7	1561.0	1596.8	1670.3	1685.0	1590.4	1489.4	1563.9	1730.6	1782.1	1624.7
50°	1515.9	1534.5	1606.1	1686.0	1719.3	1661.4	1590.4	1651.2	1825.7	1858.1	1664.9
52.5°	1399.7	1413.9	1557.5	1700.7	1781.1	1741.9	1724.2	1772.8	1922.8	1946.8	1702.6
55°	1166.8	1164.3	1362.0	1626.7	1809.5	1861.0	1850.2	1867.4	2035.0	2056.6	1712.0
57.5°	798.1	842.7	1013.4	1354.6	1635.5	1833.1	1844.4	1815.9	1904.2	1912.5	1492.3
60°	430.4	449.1	586.3	904.1	1245.3	1493.8	1523.2	1471.7	1464.9	1441.3	1065.3
62.5°	171.1	180.4	258.4	447.6	678.5	908.0	971.2	950.1	905.0	843.2	551.5
65°	81.4	87.3	128.4	209.4	301.0	378.5	441.7	461.3	340.2	306.4	181.9
67.5°	55.4	59.8	93.6	119.6	107.3	112.3	146.1	135.8	79.9	68.1	50.5
70°	42.1	45.1	75.0	81.4	48.1	33.8	37.7	35.3	32.9	33.4	32.9
72.5°	29.9	32.3	54.9	48.1	21.1	15.7	20.1	24.0	24.0	24.0	23.6
75°	18.2	20.6	31.9	18.6	8.3	8.3	12.8	16.2	17.1	17.6	16.7
77.5°	9.3	11.7	10.8	5.4	5.4	6.3	9.3	11.3	12.3	12.3	11.7
80°	2.0	2.0	2.0	3.0	5.4	6.9	9.3	10.3	11.7	11.7	10.8
82.5°	0.0	0.5	1.5	3.0	4.9	6.3	8.8	10.3	11.7	12.3	11.3
85°	0.0	0.5	1.0	2.0	3.4	3.9	3.4	3.0	3.0	3.0	3.0
87.5°	0.0	0.0	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0
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°	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0
2.5°	711.8	713.3	710.9	710.4	708.4	714.3	700.1	696.6	705.5	697.1	699.1
5°	721.1	724.6	720.2	712.8	702.0	685.4	671.2	652.6	643.7	637.4	636.3
7.5°	728.0	730.5	726.1	702.5	670.2	628.0	596.6	573.6	555.5	550.1	541.2
10°	756.0	756.5	734.4	682.5	619.2	563.8	515.8	480.4	462.3	451.0	446.2
12.5°	774.6	773.6	729.0	642.7	558.4	484.8	429.9	387.3	370.6	365.3	361.8
15°	798.1	792.7	716.3	602.0	480.0	400.5	351.0	321.6	320.2	316.7	320.2
17.5°	816.7	801.6	697.7	528.0	405.0	330.0	297.6	299.6	303.5	306.9	307.4
20°	847.1	815.8	655.0	463.3	335.4	282.9	282.3	291.2	301.0	304.9	308.9
22.5°	870.2	821.7	609.4	394.2	278.4	263.8	272.1	285.3	292.7	296.6	302.5
25°	878.5	805.5	548.6	325.0	251.0	254.9	267.7	276.5	285.8	290.3	287.8
27.5°	886.9	797.2	476.1	267.7	236.3	249.1	259.8	268.6	271.6	277.5	281.4
30°	906.9	768.2	410.8	231.4	228.9	245.2	253.0	255.9	263.8	267.2	267.2
32.5°	923.2	756.9	341.7	214.2	227.9	247.1	248.1	248.1	249.1	246.6	245.6
35°	956.5	718.2	279.9	204.0	227.5	247.6	250.0	241.7	219.2	210.3	207.9
37.5°	997.7	693.2	234.4	201.5	230.9	253.5	257.4	226.0	196.6	182.4	179.9
40°	1047.7	675.6	204.4	200.5	238.7	267.2	255.4	213.8	175.5	155.0	153.9
42.5°	1106.0	659.4	184.3	200.1	248.5	281.4	253.5	203.4	153.9	140.2	142.2
45°	1152.6	650.6	170.6	196.6	252.0	289.7	254.9	185.3	145.1	136.3	137.3
47.5°	1188.9	632.0	159.3	190.7	251.5	292.7	241.7	178.0	140.7	143.1	145.6
50°	1189.8	606.9	145.1	178.0	244.1	287.3	226.5	171.1	139.7	150.0	155.0
52.5°	1176.6	571.7	129.9	159.8	227.0	268.6	212.7	168.2	135.3	134.4	140.2
55°	1129.6	505.4	104.5	129.4	191.7	221.6	200.5	162.8	122.1	110.8	111.8
57.5°	912.8	362.3	77.0	92.6	135.8	162.2	180.9	160.3	109.9	94.1	94.6
60°	565.2	205.4	56.4	63.3	83.9	98.6	146.6	149.0	98.0	79.4	78.5
62.5°	290.3	101.5	43.6	44.6	51.4	57.9	100.5	125.0	88.7	75.5	75.5
65°	97.1	50.0	38.2	34.3	34.3	35.8	60.8	86.8	75.0	63.3	63.3
67.5°	41.7	37.3	33.4	29.9	27.5	26.0	34.3	50.5	55.9	48.1	46.1
70°	32.3	31.4	28.9	25.0	21.5	19.6	20.1	26.0	31.9	30.9	29.9
72.5°	24.0	24.0	23.0	19.6	16.7	14.3	13.2	13.7	15.2	15.7	16.2
75°	16.7	17.1	17.1	15.2	12.3	10.3	8.8	7.4	5.9	4.9	4.4
77.5°	11.3	11.7	12.8	11.3	9.3	6.9	5.4	3.9	2.4	1.0	1.0
80°	9.8	11.3	12.3	11.3	9.8	7.4	5.4	3.0	1.5	0.0	0.0
82.5°	10.3	11.3	12.8	10.8	9.3	6.9	5.4	3.4	1.5	0.5	0.0
85°	2.4	2.4	3.0	3.4	4.4	4.9	3.9	2.4	1.5	0.5	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	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)