

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: P526032

Luminaire Tested: **GALN-SA1A-722-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-722-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2989 lumens  
Efficiency: N/A  
Efficacy: 90.6 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

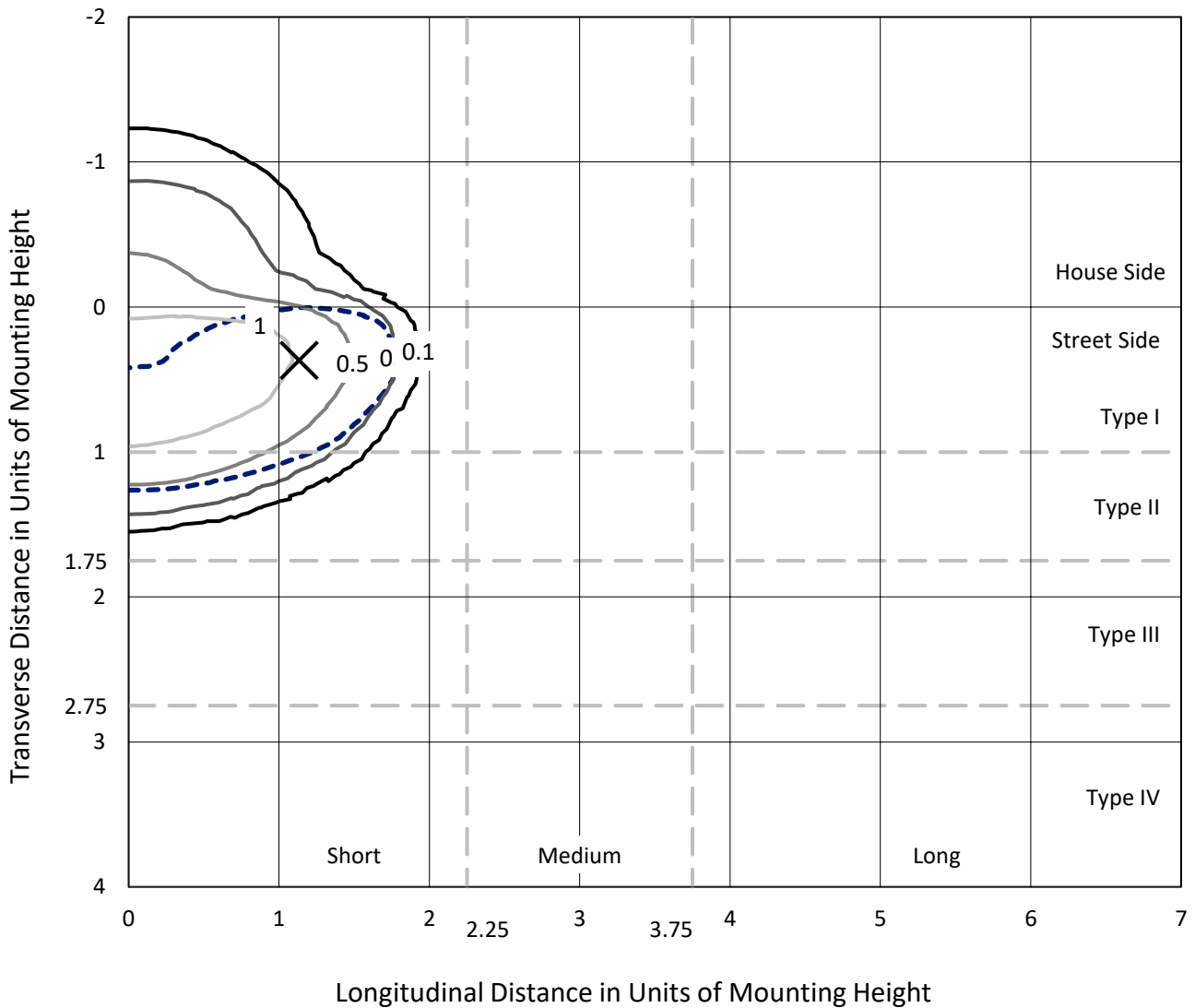
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

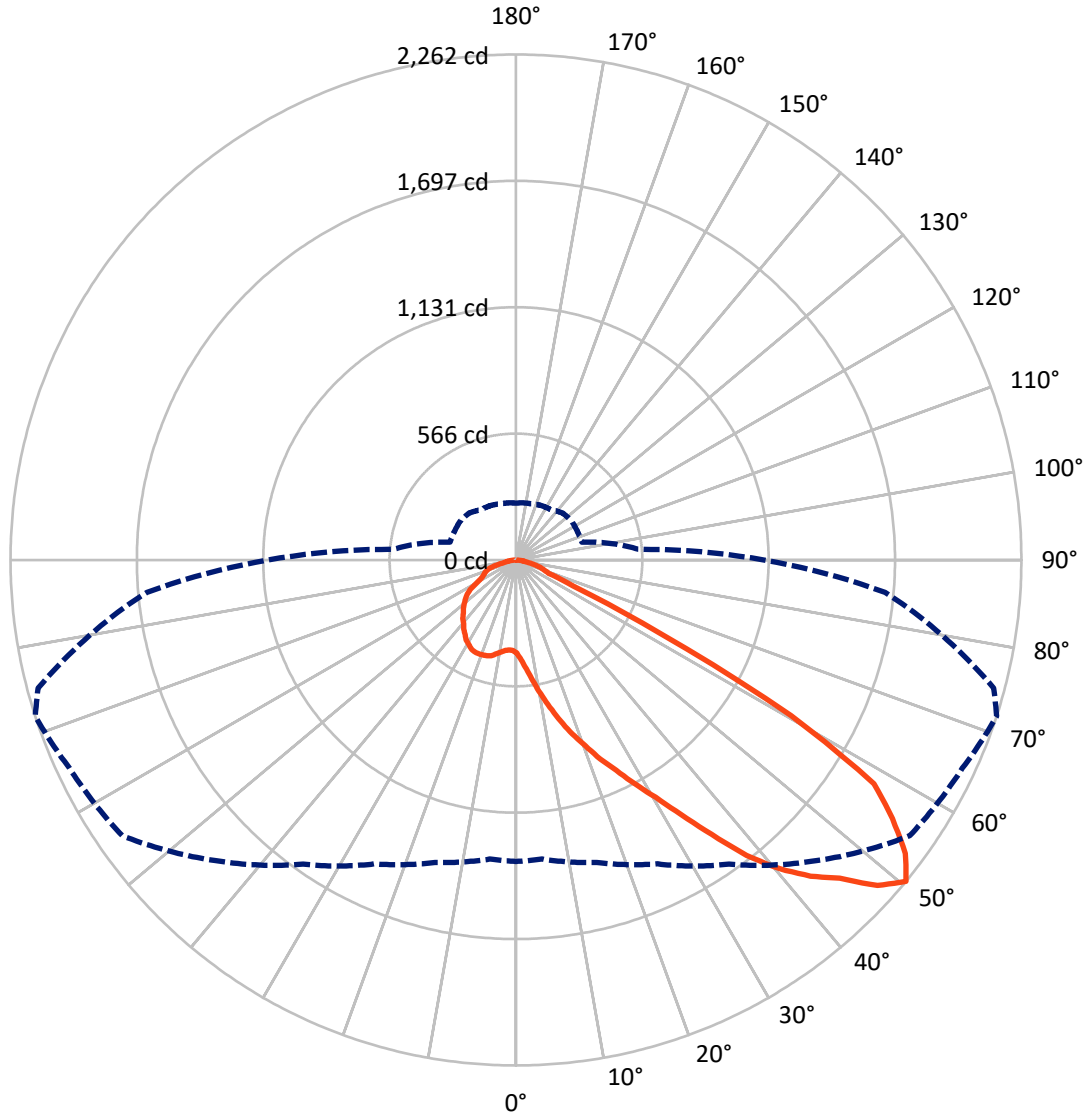
✕ Max cd  
 - - - 1/2 Max cd



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

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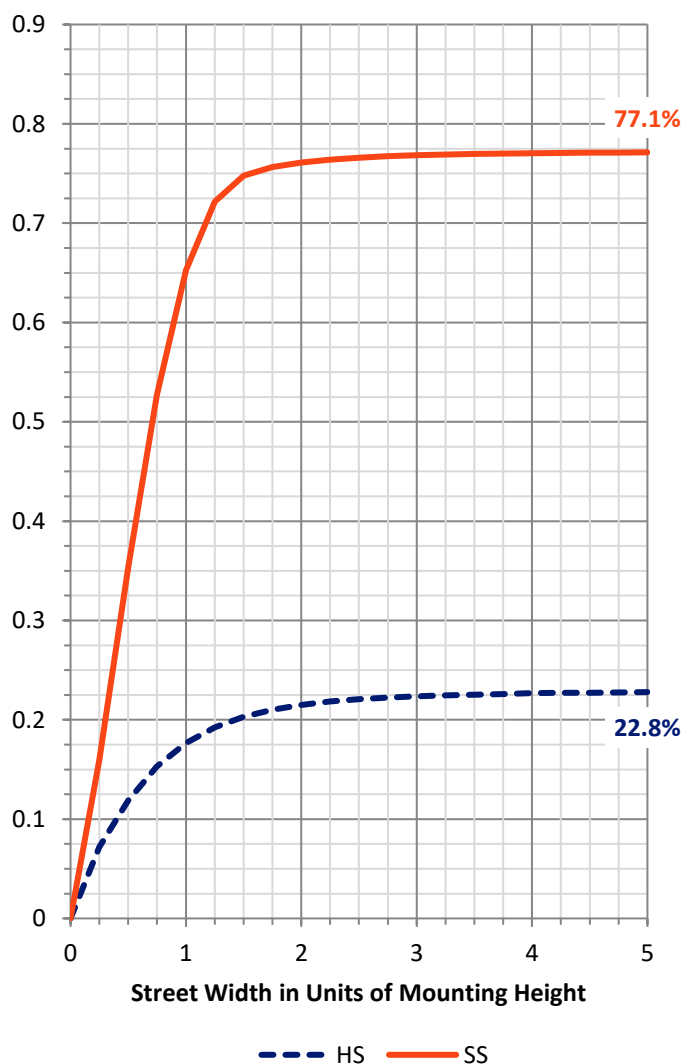
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	684.8	0.0	684.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	2304.2	0.0	2304.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	2989.0	0.0	2989.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.9	1.6
10°-20°	183.0	6.1
20°-30°	354.8	11.9
30°-40°	587.7	19.7
40°-50°	822.3	27.5
50°-60°	693.7	23.2
60°-70°	211.5	7.1
70°-80°	74.2	2.5
80°-90°	12.9	0.4
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°	2989.0	100.0
0°-180°	2989.0	100.0

**Coefficient of Utilization**



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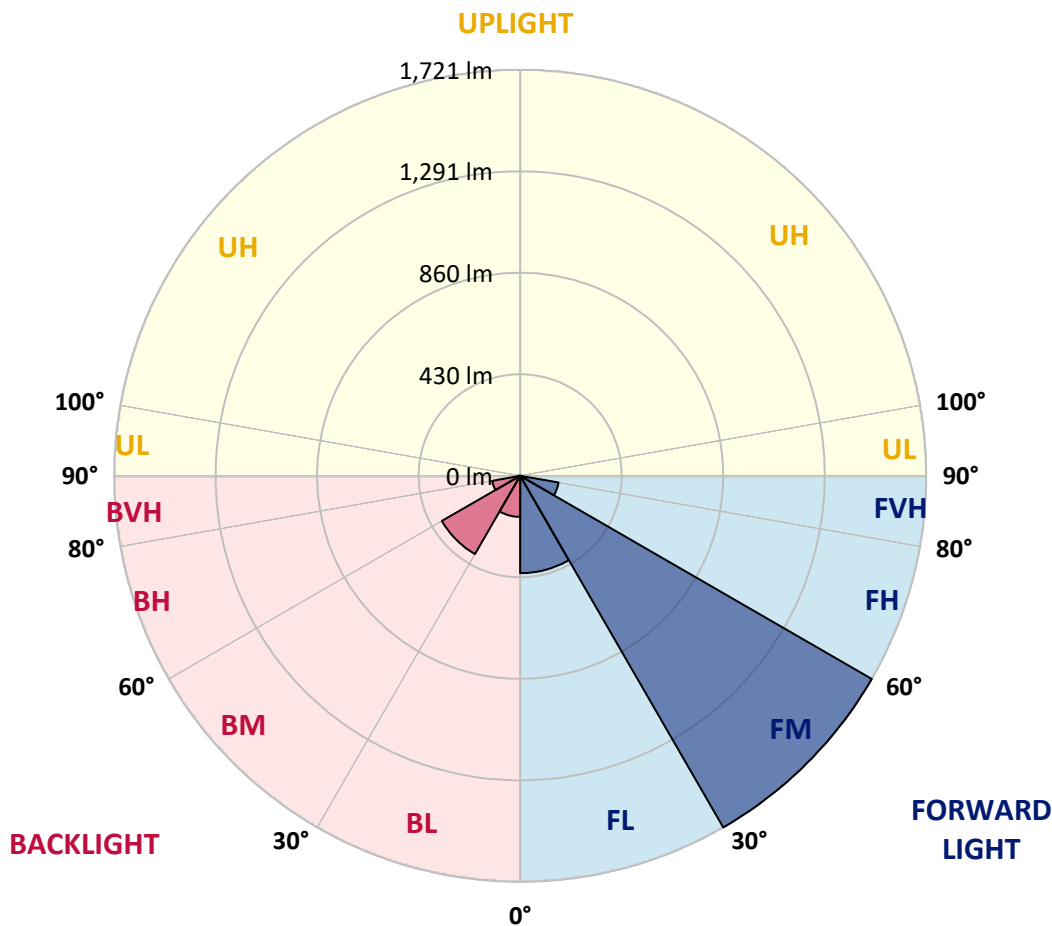
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	412.6	13.8			
FM (30°-60°)	1720.8	57.6			
FH (60°-80°)	165.0	5.5			G0/660
FVH (80°-90°)	5.8	0.2			G0/10
BL (0°-30°)	174.1	5.8	B1/500		
BM (30°-60°)	383.0	12.8	B1/1000		
BH (60°-80°)	120.6	4.0	B1/500		G1/500
BVH (80°-90°)	7.1	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°	55°	65°	72°	75°	85°
0°	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1
2.5°	535.2	531.9	521.9	518.5	506.7	485.3	477.9	456.0	446.8	438.3	428.3
5°	676.8	661.3	660.2	641.3	614.0	598.1	550.7	518.9	489.7	474.9	447.5
7.5°	767.1	767.5	767.5	751.9	730.1	689.8	647.3	589.9	545.9	524.1	477.5
10°	852.9	845.5	841.4	840.0	825.2	786.0	740.5	669.4	609.2	583.6	500.1
12.5°	913.6	907.3	916.5	911.7	901.0	875.5	832.6	751.6	676.1	641.7	536.3
15°	942.4	946.8	954.2	967.6	962.7	953.1	905.8	835.9	748.2	709.4	568.5
17.5°	986.8	974.6	983.5	1000.1	1013.4	1009.0	982.0	896.9	819.6	771.9	611.8
20°	1017.9	1010.8	1015.3	1034.5	1044.5	1069.6	1055.6	976.8	888.0	837.7	662.8
22.5°	1106.6	1096.3	1081.8	1084.8	1088.5	1106.3	1109.6	1064.5	967.6	914.3	711.2
25°	1216.1	1206.5	1189.5	1172.1	1161.4	1158.0	1169.5	1133.3	1043.7	988.6	763.4
27.5°	1336.7	1320.4	1309.7	1273.8	1245.0	1240.5	1235.0	1215.4	1134.0	1074.4	822.2
30°	1453.9	1441.0	1426.6	1369.2	1339.3	1334.5	1307.1	1312.6	1232.0	1165.8	888.8
32.5°	1542.7	1543.8	1510.9	1467.6	1439.5	1414.0	1404.0	1419.9	1357.8	1304.5	963.1
35°	1614.4	1617.8	1586.3	1547.1	1516.8	1534.6	1530.1	1537.5	1507.9	1442.8	1049.7
37.5°	1684.3	1667.7	1634.0	1615.2	1599.3	1628.5	1666.2	1672.5	1678.1	1601.5	1150.3
40°	1695.8	1697.3	1677.7	1691.0	1671.0	1715.0	1802.7	1794.6	1817.1	1750.2	1259.4
42.5°	1679.5	1682.9	1690.6	1709.5	1757.6	1810.5	1940.7	1907.4	1934.7	1875.2	1365.5
45°	1652.9	1639.2	1648.8	1720.6	1803.8	1921.4	2066.8	2040.9	2032.0	1982.1	1492.0
47.5°	1525.7	1539.7	1569.7	1658.1	1783.1	1940.7	2156.3	2150.4	2177.0	2141.9	1607.0
50°	1349.3	1343.7	1401.4	1500.9	1662.2	1902.9	2151.5	2205.1	2262.4	2213.6	1658.5
52.5°	1010.5	1040.1	1089.6	1213.1	1443.2	1697.3	2046.4	2136.0	2182.6	2172.2	1617.0
55°	638.8	647.6	677.6	824.4	1031.5	1362.2	1754.3	1961.7	2045.0	2083.8	1578.9
57.5°	310.3	293.7	330.3	448.3	595.8	916.1	1353.0	1708.8	1889.6	1959.9	1496.1
60°	162.0	168.3	182.7	224.9	308.1	475.6	843.3	1138.8	1415.1	1523.1	1134.0
62.5°	134.3	136.5	146.1	167.2	204.9	273.7	430.5	555.2	721.6	818.9	645.0
65°	113.9	115.0	125.4	139.4	163.5	192.7	221.5	231.9	280.7	288.1	229.3
67.5°	95.1	96.2	107.3	120.6	136.1	143.9	151.3	150.5	156.1	153.9	153.5
70°	73.2	74.3	85.8	99.9	107.6	103.2	126.1	131.3	133.5	135.4	138.3
72.5°	52.9	55.1	64.0	74.0	69.9	80.3	103.9	111.7	114.7	115.8	119.5
75°	38.5	39.2	41.4	38.5	44.4	55.8	73.2	82.8	86.5	87.7	93.2
77.5°	17.0	17.4	17.8	22.2	28.5	34.8	43.6	51.4	56.6	58.1	59.5
80°	8.9	9.2	11.5	15.2	20.3	25.5	31.8	36.2	39.6	39.9	41.4
82.5°	5.5	5.9	8.1	10.7	14.4	18.9	23.3	27.0	29.6	30.0	30.3
85°	2.6	3.3	4.8	6.7	9.6	12.2	12.6	10.7	11.5	11.8	11.1
87.5°	0.7	1.1	1.5	1.1	1.5	1.5	1.8	2.2	2.2	2.2	2.6
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°	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1	416.1
2.5°	422.8	419.4	406.5	401.7	389.1	391.3	384.7	384.3	382.8	382.4	382.1
5°	433.1	422.8	407.2	395.4	388.4	387.6	382.8	382.8	384.3	385.4	382.8
7.5°	450.1	438.3	412.0	400.9	394.6	393.5	390.2	387.6	390.9	389.8	386.9
10°	469.7	449.0	421.3	411.7	401.3	398.7	398.7	399.8	394.3	396.1	393.2
12.5°	491.5	463.8	433.1	422.0	409.8	408.3	407.6	399.5	402.4	400.9	393.5
15°	519.3	480.8	448.3	429.4	419.1	412.4	402.8	401.3	399.5	395.8	392.4
17.5°	549.2	499.3	455.3	431.6	416.1	411.3	403.9	396.1	390.6	391.3	388.7
20°	574.8	516.3	457.9	433.8	413.9	404.6	393.2	388.4	382.4	382.1	381.7
22.5°	605.1	539.3	461.6	427.9	407.2	397.6	389.8	381.3	377.3	372.1	374.7
25°	641.3	548.1	462.3	424.6	402.4	385.4	381.3	372.1	370.6	363.2	364.7
27.5°	667.6	552.9	456.4	414.2	391.3	378.4	371.0	364.3	361.7	356.2	354.7
30°	702.7	560.3	443.8	401.3	380.2	365.8	361.4	359.9	352.5	346.6	345.8
32.5°	742.7	565.1	435.7	388.0	368.8	357.7	359.9	352.8	343.6	338.4	336.9
35°	774.5	567.0	415.4	372.8	361.0	354.0	351.4	349.9	336.6	331.8	328.1
37.5°	822.9	562.9	398.3	362.1	352.5	349.9	347.7	337.7	322.5	315.5	310.3
40°	879.5	561.8	376.5	346.9	344.3	347.3	340.6	325.1	304.0	296.3	292.6
42.5°	933.9	569.6	362.8	338.8	335.5	336.6	327.3	304.0	293.7	289.2	283.3
45°	1024.9	585.9	340.3	326.2	324.7	324.0	312.9	288.5	282.6	277.0	275.9
47.5°	1107.0	575.1	325.8	313.3	314.8	310.7	287.0	279.2	272.6	267.0	265.2
50°	1111.8	549.6	305.5	303.3	303.7	296.6	274.1	268.9	260.4	256.7	254.1
52.5°	1086.7	507.8	286.6	287.4	288.5	277.0	258.2	254.5	247.4	242.3	240.8
55°	1016.0	442.7	268.1	271.1	274.1	252.2	246.3	237.1	231.5	224.1	224.5
57.5°	895.1	356.5	242.3	247.1	253.4	229.3	224.9	213.4	205.3	199.4	198.6
60°	599.9	253.7	203.4	205.3	219.3	209.7	209.3	197.9	186.8	181.6	178.6
62.5°	354.0	193.8	175.7	173.8	173.5	179.0	188.3	184.2	169.8	159.8	162.7
65°	185.3	167.5	163.5	157.2	153.5	152.0	159.0	160.9	151.3	140.5	139.8
67.5°	155.7	155.7	152.4	150.2	145.0	138.7	134.3	128.3	126.9	123.9	120.2
70°	141.7	145.4	144.2	139.1	134.6	127.6	116.1	106.5	97.3	93.9	96.2
72.5°	123.5	127.2	127.2	124.6	118.7	108.0	96.9	85.8	78.0	72.1	71.4
75°	95.1	96.9	101.3	98.4	90.6	84.0	72.5	61.0	53.6	48.1	47.0
77.5°	60.7	63.6	63.6	63.2	57.7	51.4	44.0	35.9	30.3	26.3	25.2
80°	40.3	42.2	43.6	42.2	38.5	33.7	28.1	22.6	18.5	15.2	14.4
82.5°	29.6	31.8	32.9	31.4	27.7	24.0	20.0	15.9	11.8	9.2	8.5
85°	11.5	11.8	13.3	15.9	15.5	15.2	12.2	8.9	6.7	4.8	4.4
87.5°	3.0	2.6	3.0	3.0	2.6	2.2	2.2	2.2	2.2	1.1	1.5
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)