

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: P651702

Luminaire Tested: **GALN-SA1A-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3982.1 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

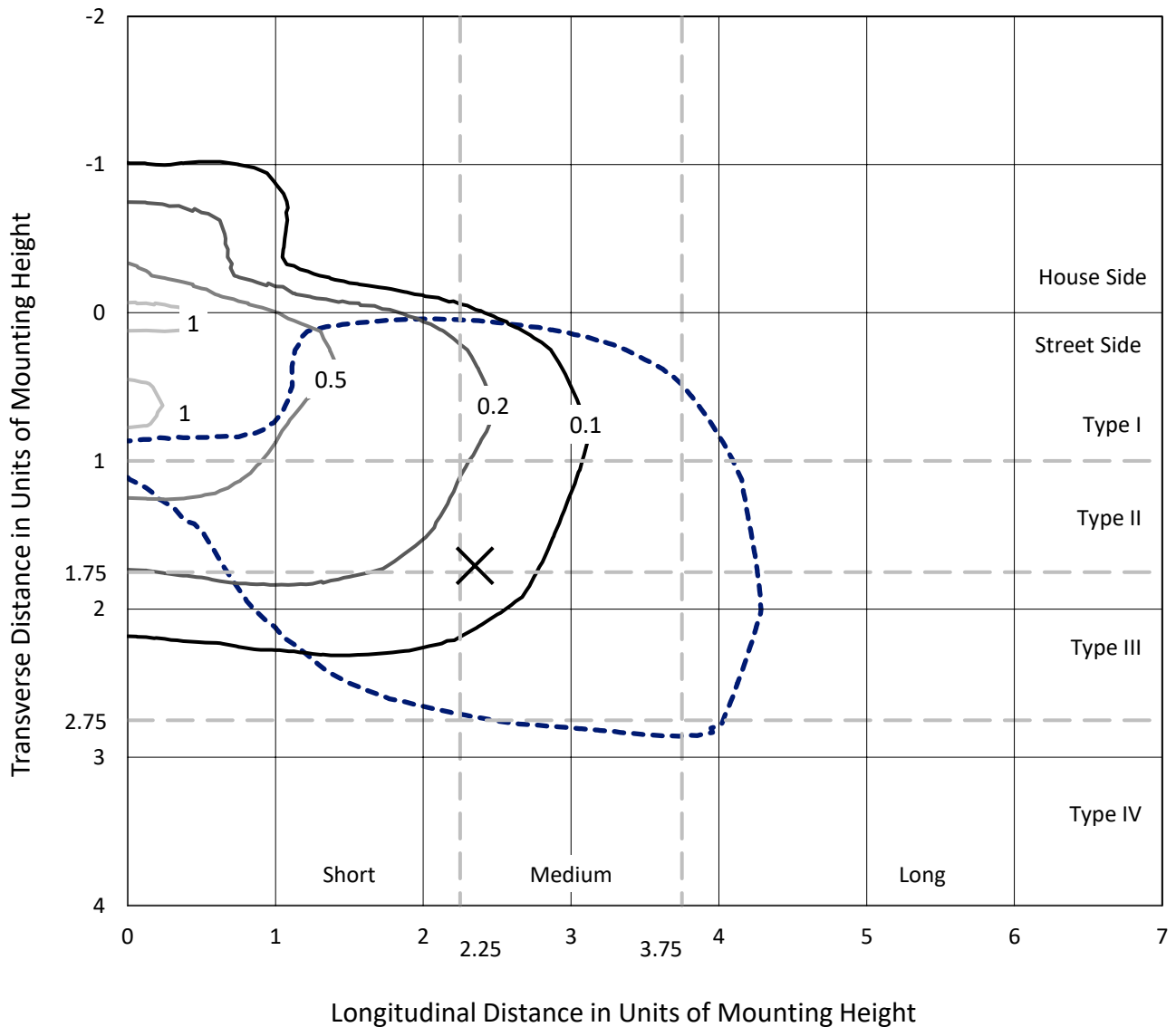
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

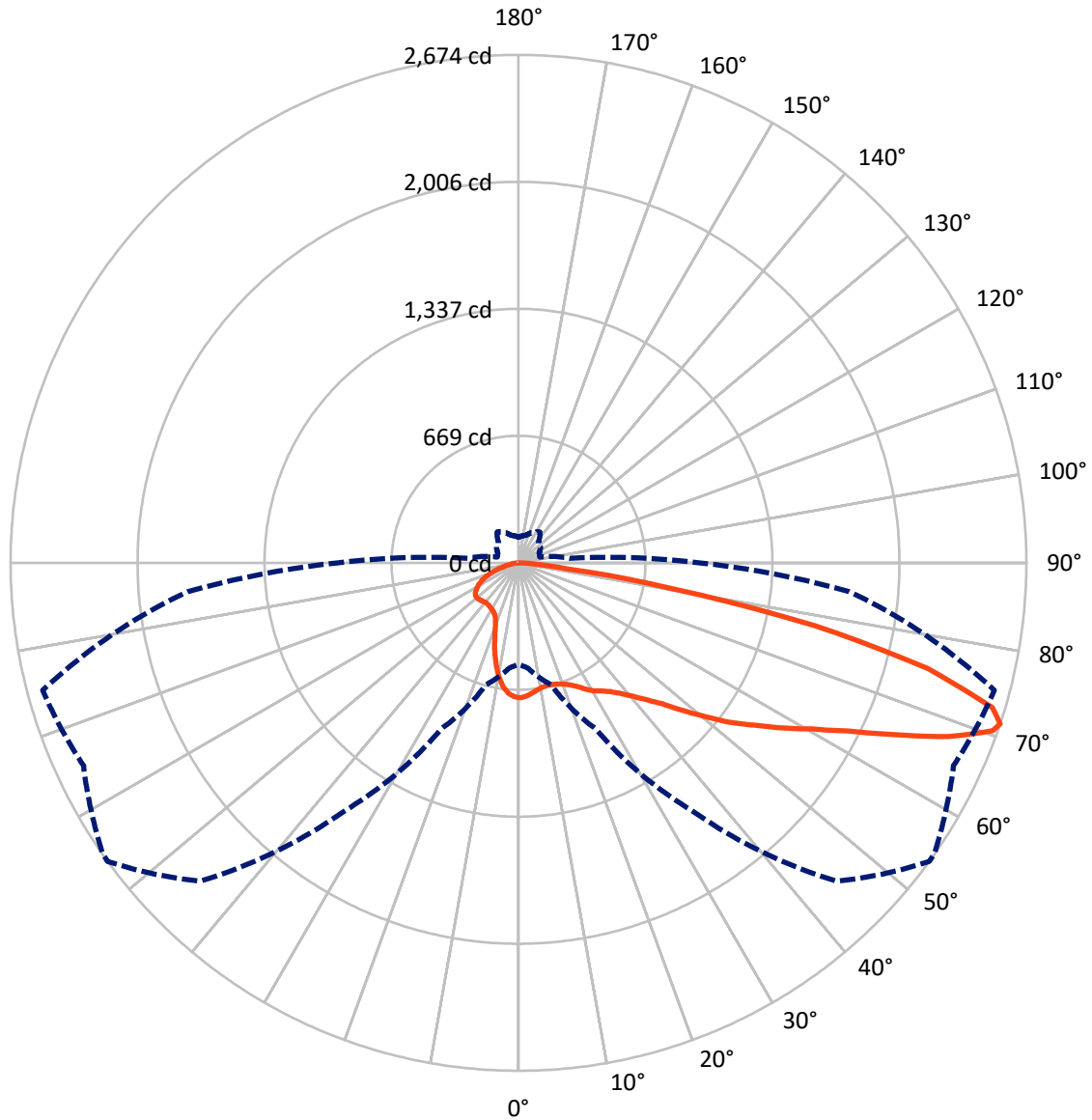
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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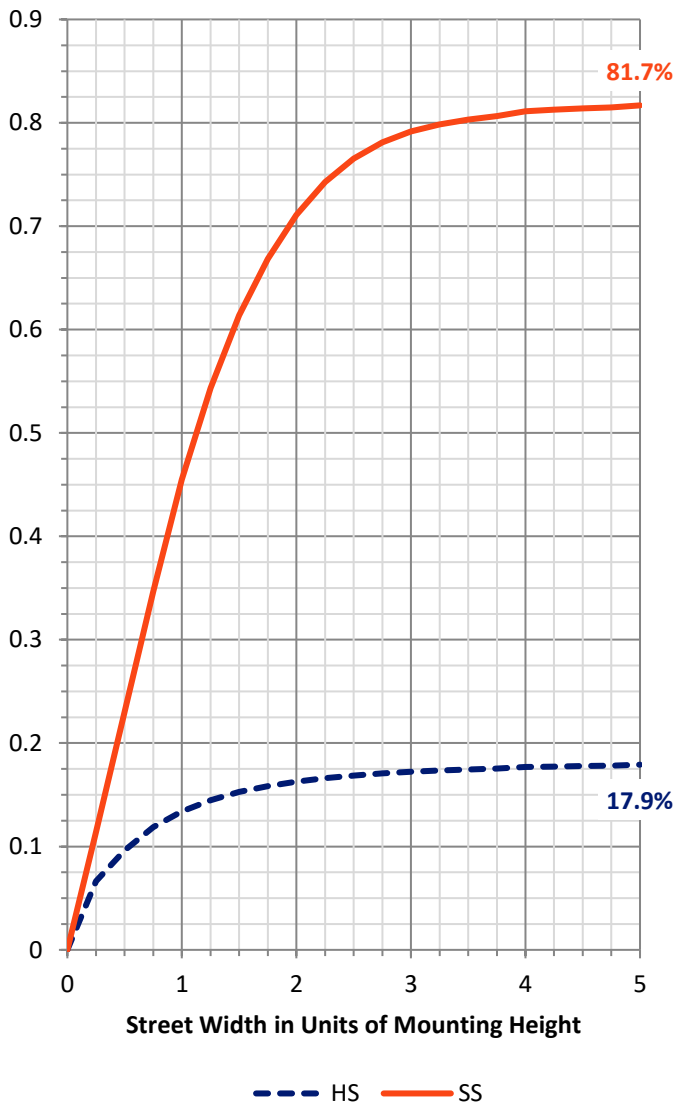
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	718.9	0.0	718.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3263.2	0.0	3263.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	3982.1	0.0	3982.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	1.6
10°-20°	167.2	4.2
20°-30°	278.4	7.0
30°-40°	411.6	10.3
40°-50°	579.8	14.6
50°-60°	776.3	19.5
60°-70°	978.5	24.6
70°-80°	668.3	16.8
80°-90°	58.8	1.5
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°	3982.1	100.0
0°-180°	3982.1	100.0

Coefficient of Utilization

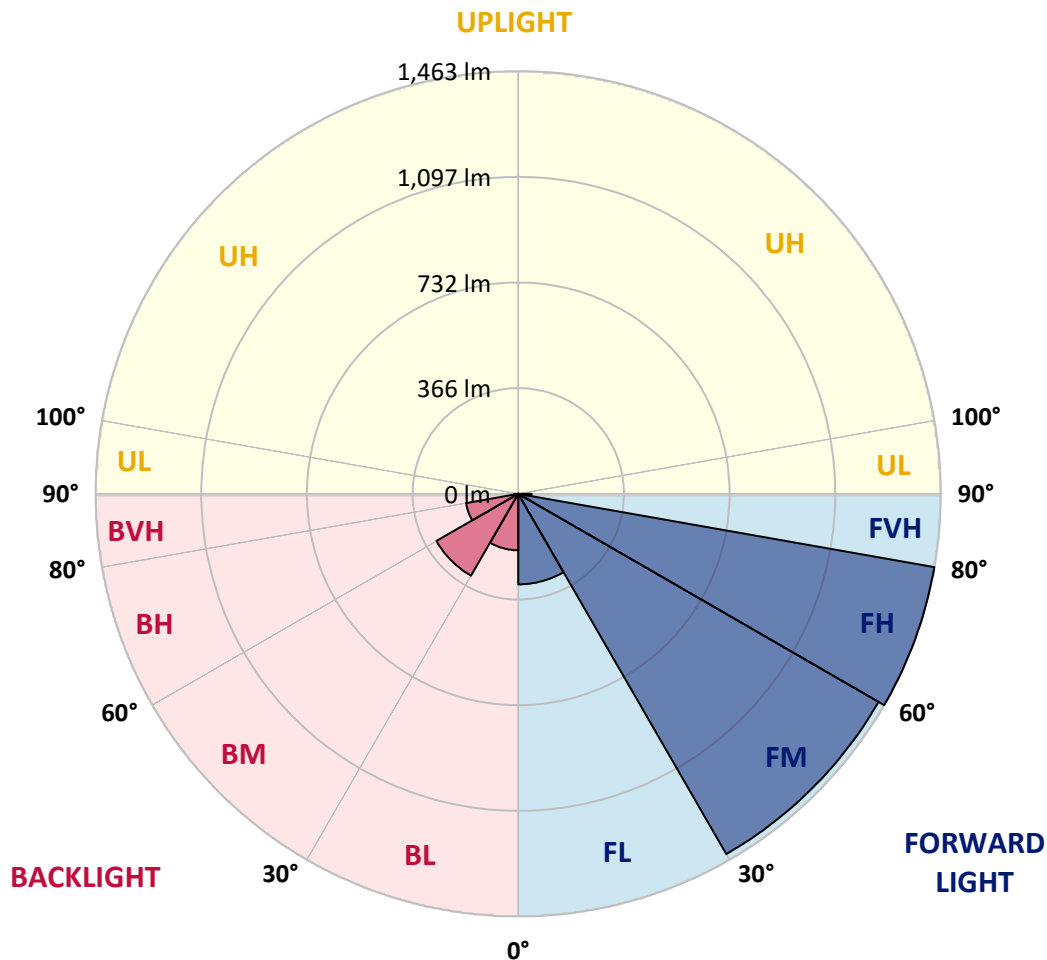


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.5	7.9			
FM (30°-60°)	1440.6	36.2			
FH (60°-80°)	1463.2	36.7			G1/1800
FVH (80°-90°)	45.9	1.2			G1/100
BL (0°-30°)	195.4	4.9	B1/500		
BM (30°-60°)	327.1	8.2	B1/1000		
BH (60°-80°)	183.6	4.6	B1/500		G1/500
BVH (80°-90°)	12.8	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5
2.5°	686.3	689.6	690.5	692.6	697.1	700.8	704.4	704.0	709.2	711.3	713.3
5°	655.8	656.7	659.9	664.2	672.2	682.3	692.2	692.4	705.1	715.2	720.1
7.5°	633.4	636.3	638.4	642.9	651.4	662.3	678.0	679.3	701.9	721.8	732.4
10°	618.8	622.1	624.4	630.0	638.4	650.7	667.7	670.0	699.5	732.4	750.9
12.5°	605.5	608.7	610.9	618.2	629.2	644.2	663.4	666.2	700.4	744.7	771.1
15°	613.7	616.3	615.4	617.5	624.9	642.1	665.1	667.9	703.6	756.5	791.1
17.5°	650.0	652.2	645.0	636.9	633.4	646.1	670.4	673.5	710.1	768.8	811.6
20°	703.6	709.4	693.9	675.7	659.1	660.8	681.6	684.9	719.1	781.0	832.4
22.5°	773.3	777.6	758.7	728.6	698.0	682.3	698.5	700.4	732.6	796.9	855.2
25°	855.2	857.8	831.6	792.9	748.7	719.1	721.4	724.9	755.0	815.0	875.5
27.5°	934.9	943.0	912.7	865.3	807.3	757.8	753.0	755.2	779.3	825.1	889.4
30°	1029.2	1028.6	996.6	941.7	867.2	800.0	783.0	782.6	792.4	830.1	899.5
32.5°	1104.6	1113.3	1081.9	1022.2	935.9	843.6	803.6	802.7	802.6	838.6	914.6
35°	1190.2	1191.4	1162.6	1102.4	1010.1	898.4	832.4	828.1	823.2	857.1	935.0
37.5°	1266.7	1272.8	1246.3	1178.7	1083.0	955.5	872.0	869.2	854.1	889.2	967.7
40°	1326.5	1331.1	1315.2	1250.8	1154.9	1017.0	922.3	917.2	898.9	941.7	1011.4
42.5°	1346.1	1355.4	1361.6	1330.0	1237.4	1089.9	984.3	977.8	963.9	1021.3	1061.8
45°	1347.6	1362.3	1395.1	1396.6	1320.5	1177.2	1056.5	1052.1	1051.0	1123.2	1132.5
47.5°	1336.2	1351.1	1406.3	1436.2	1394.5	1265.5	1160.9	1153.8	1154.4	1249.3	1211.9
50°	1308.7	1326.3	1393.5	1461.6	1452.3	1357.0	1271.0	1268.6	1282.0	1393.2	1294.2
52.5°	1256.8	1278.2	1380.1	1477.6	1495.4	1436.0	1396.2	1389.5	1423.3	1549.4	1384.4
55°	1113.3	1145.4	1331.2	1486.3	1536.3	1511.5	1508.9	1520.9	1565.7	1719.7	1483.5
57.5°	1038.5	1062.6	1225.2	1487.8	1587.9	1599.2	1640.5	1643.6	1721.9	1900.6	1595.6
60°	997.6	1019.0	1167.1	1478.0	1659.9	1707.9	1775.2	1785.9	1874.3	2096.5	1711.8
62.5°	961.9	980.2	1132.3	1443.7	1741.2	1869.0	1949.7	1954.8	2047.5	2312.9	1826.4
65°	877.8	898.7	1062.2	1409.5	1811.3	2070.3	2181.1	2175.1	2231.8	2499.7	1898.2
67.5°	764.5	791.0	931.2	1291.4	1846.0	2290.4	2441.8	2434.3	2413.8	2622.1	1918.9
70°	619.7	633.9	763.6	1087.3	1707.7	2405.8	2647.6	2639.7	2526.5	2638.2	1821.3
71°	533.2	555.4	664.9	965.8	1592.6	2370.6	2674.1	2671.9	2526.8	2593.6	1747.7
72.5°	416.2	429.8	526.6	748.3	1353.6	2170.1	2608.7	2616.9	2472.0	2470.0	1596.0
75°	263.3	269.3	330.4	440.5	742.8	1536.8	2226.9	2249.1	2194.8	2021.7	1186.9
77.5°	152.9	160.7	197.9	259.6	320.9	834.2	1593.4	1617.6	1525.1	1113.1	485.9
80°	89.1	97.6	130.4	150.8	147.3	309.5	811.3	852.4	660.4	281.1	136.4
82.5°	49.5	55.3	91.7	91.8	78.5	101.1	255.3	267.2	188.5	113.4	55.7
85°	35.9	40.6	59.1	53.6	37.7	43.5	88.8	93.1	76.1	47.8	18.1
87.5°	12.7	18.1	32.5	25.8	10.3	9.0	25.6	20.9	19.3	13.4	4.1
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°	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5	710.5
2.5°	714.3	714.8	712.7	708.7	704.8	700.0	694.3	690.0	688.1	687.9	687.7
5°	722.1	723.2	715.0	702.9	689.6	673.2	659.3	643.4	639.2	632.9	634.8
7.5°	734.5	733.9	717.8	692.2	661.0	626.4	597.1	580.1	562.5	557.5	557.8
10°	752.4	748.3	717.8	670.3	618.2	566.7	525.9	500.1	486.1	474.5	470.2
12.5°	771.4	761.0	710.9	639.5	563.1	500.1	456.2	421.3	412.3	402.8	403.1
15°	789.4	772.2	697.4	596.3	503.8	428.9	386.4	365.4	362.6	363.7	363.5
17.5°	805.8	780.2	676.7	548.1	434.5	367.9	345.2	346.7	354.2	359.6	360.3
20°	822.3	784.9	646.0	483.6	369.1	330.8	331.7	343.5	354.9	362.2	363.3
22.5°	838.1	787.0	609.8	421.2	321.8	315.1	327.8	340.5	351.7	358.8	359.9
25°	848.3	782.1	558.6	356.0	298.6	309.5	322.9	333.6	343.0	350.4	352.1
27.5°	851.2	766.2	495.2	303.3	287.8	304.2	316.4	324.4	331.7	338.6	339.8
30°	849.7	742.8	425.5	272.3	281.6	297.9	307.4	313.2	322.0	327.4	328.5
32.5°	847.3	715.4	352.8	255.7	276.4	292.1	297.7	302.8	302.7	300.5	302.0
35°	848.1	682.7	293.8	245.8	271.9	287.8	292.5	286.1	267.6	266.7	265.8
37.5°	852.7	650.4	251.0	239.0	269.5	287.1	289.7	260.0	243.7	236.2	234.2
40°	864.3	612.8	222.9	233.8	269.3	292.1	277.0	246.9	215.5	200.9	199.8
42.5°	879.8	575.8	205.6	230.6	271.9	299.6	271.9	228.4	194.3	185.6	184.3
45°	902.7	533.4	196.2	229.1	275.8	302.4	270.1	214.9	185.6	178.7	178.7
47.5°	928.8	493.0	191.0	228.0	280.7	300.5	254.9	210.6	181.6	182.4	186.4
50°	954.6	457.9	187.1	225.6	285.0	299.4	248.7	210.3	182.6	193.6	200.9
52.5°	984.5	433.2	182.4	221.8	285.0	292.5	246.7	214.7	185.6	188.9	192.1
55°	1020.6	425.5	176.4	213.4	279.9	275.3	245.7	220.9	187.8	180.2	181.6
57.5°	1068.4	437.9	170.6	202.8	268.0	257.5	245.2	222.6	182.8	176.6	175.3
60°	1123.9	462.7	168.9	192.1	251.9	242.2	242.6	217.7	175.9	169.5	170.6
62.5°	1162.9	477.5	167.8	183.9	234.2	225.4	236.4	211.7	172.9	167.4	168.5
65°	1162.9	459.4	157.9	171.4	211.4	205.2	228.8	204.1	169.0	162.6	161.6
67.5°	1118.7	406.8	142.8	152.7	186.3	182.2	218.3	195.1	163.2	158.3	155.8
70°	1003.9	308.5	123.9	130.8	154.4	158.1	204.8	182.8	153.6	147.6	143.7
71°	953.4	268.7	116.0	119.6	142.2	147.6	198.3	177.7	149.3	140.7	133.8
72.5°	855.9	226.3	103.9	105.4	121.5	131.2	184.8	167.8	141.1	128.8	121.1
75°	650.3	165.2	83.7	82.8	89.9	104.1	156.3	149.5	123.7	107.1	102.6
77.5°	280.9	89.9	62.6	63.2	61.1	79.0	123.0	128.4	106.1	87.1	83.0
80°	85.2	51.8	42.8	43.6	40.9	52.9	86.7	100.7	85.2	67.8	62.1
82.5°	43.6	30.9	29.3	28.8	26.0	29.9	52.5	68.8	60.9	42.4	37.4
85°	18.9	16.6	14.4	14.0	12.3	10.8	18.8	34.4	32.3	23.6	22.6
87.5°	4.7	4.3	2.8	2.6	1.5	0.3	0.0	0.0	0.0	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)