

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: P450353

Luminaire Tested: **GALN-SA1A-827-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-827-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3421 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

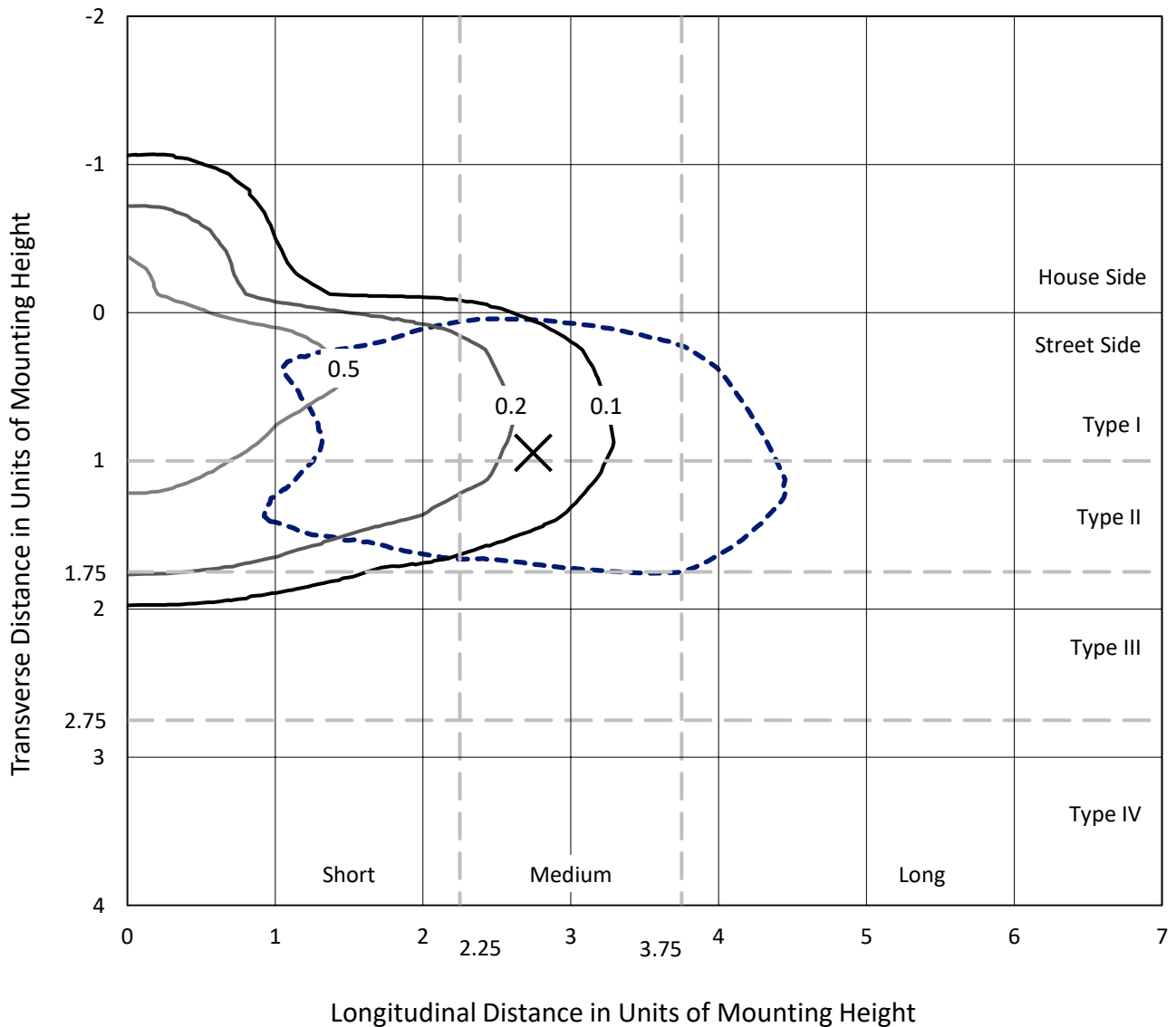
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

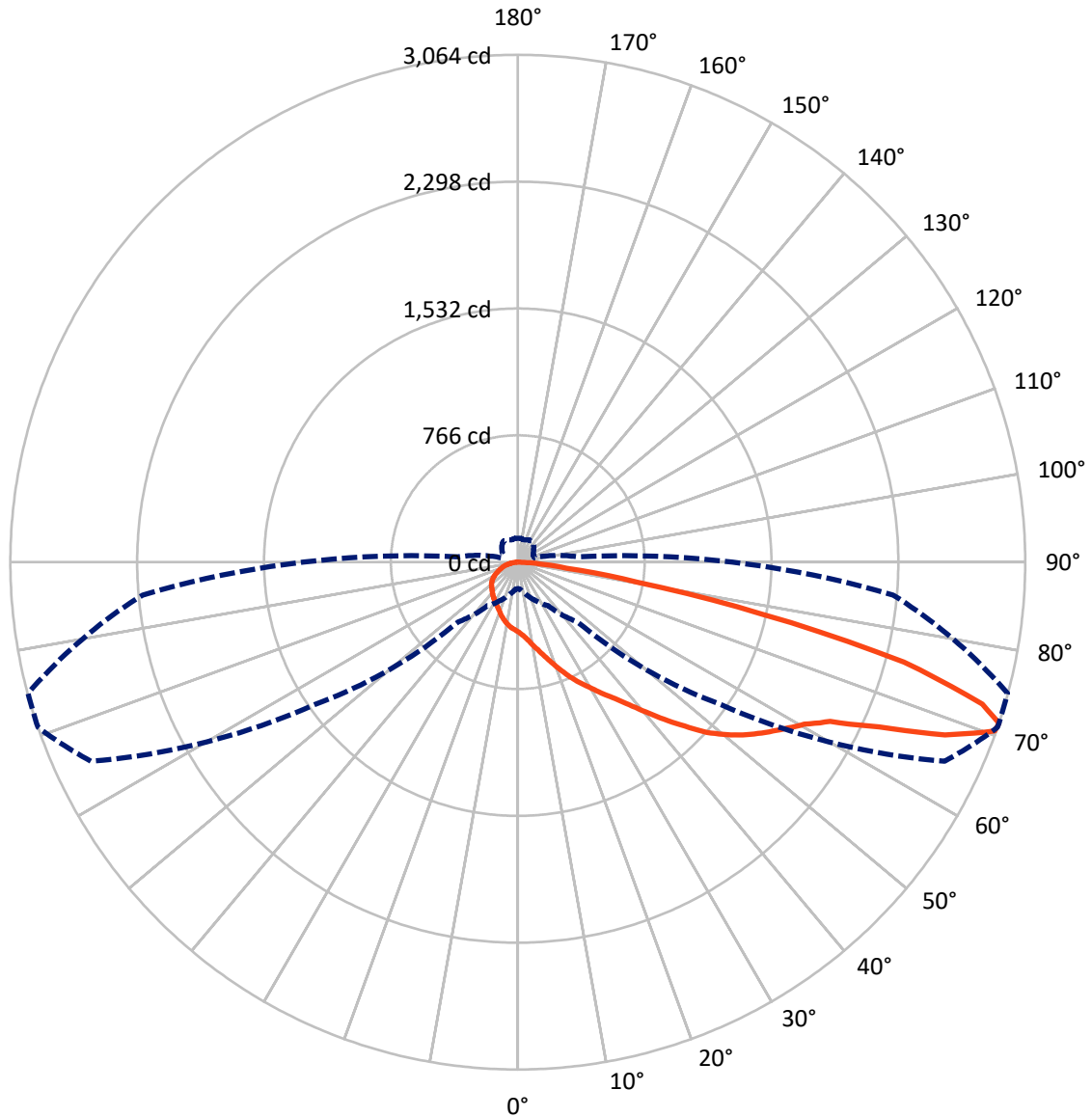
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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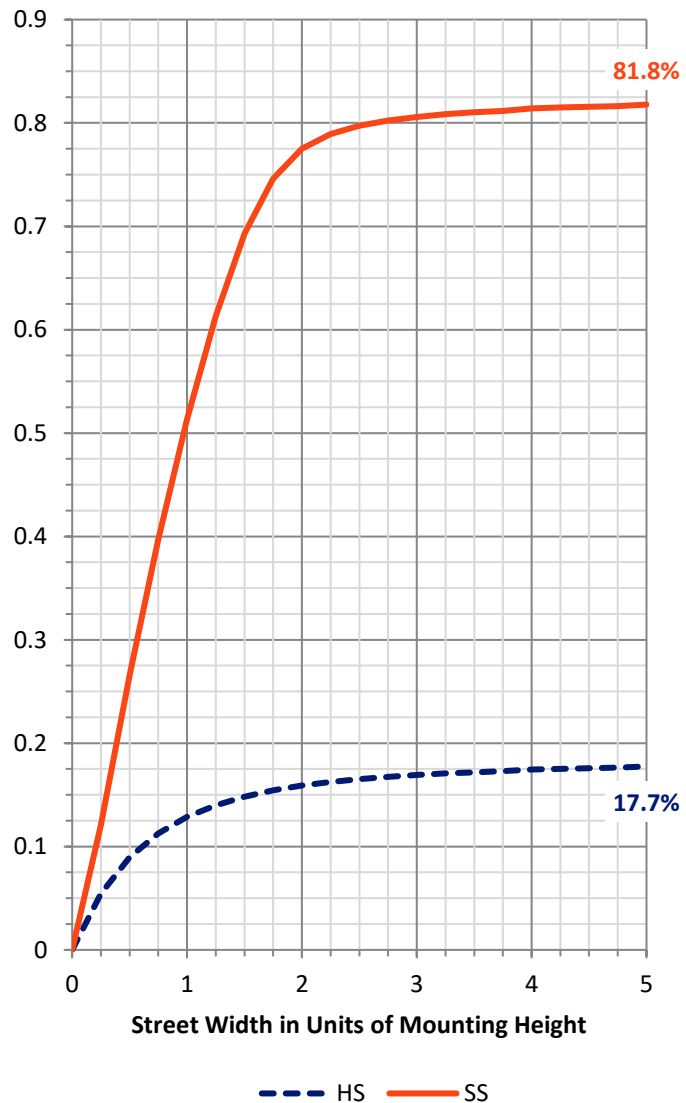
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	615.3	0.0	615.3
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	2805.7	0.0	2805.7
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	3421.0	0.0	3421.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.2	1.2
10°-20°	137.0	4.0
20°-30°	239.4	7.0
30°-40°	356.0	10.4
40°-50°	524.5	15.3
50°-60°	734.4	21.5
60°-70°	821.4	24.0
70°-80°	501.7	14.7
80°-90°	64.5	1.9
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°	3421.0	100.0
0°-180°	3421.0	100.0



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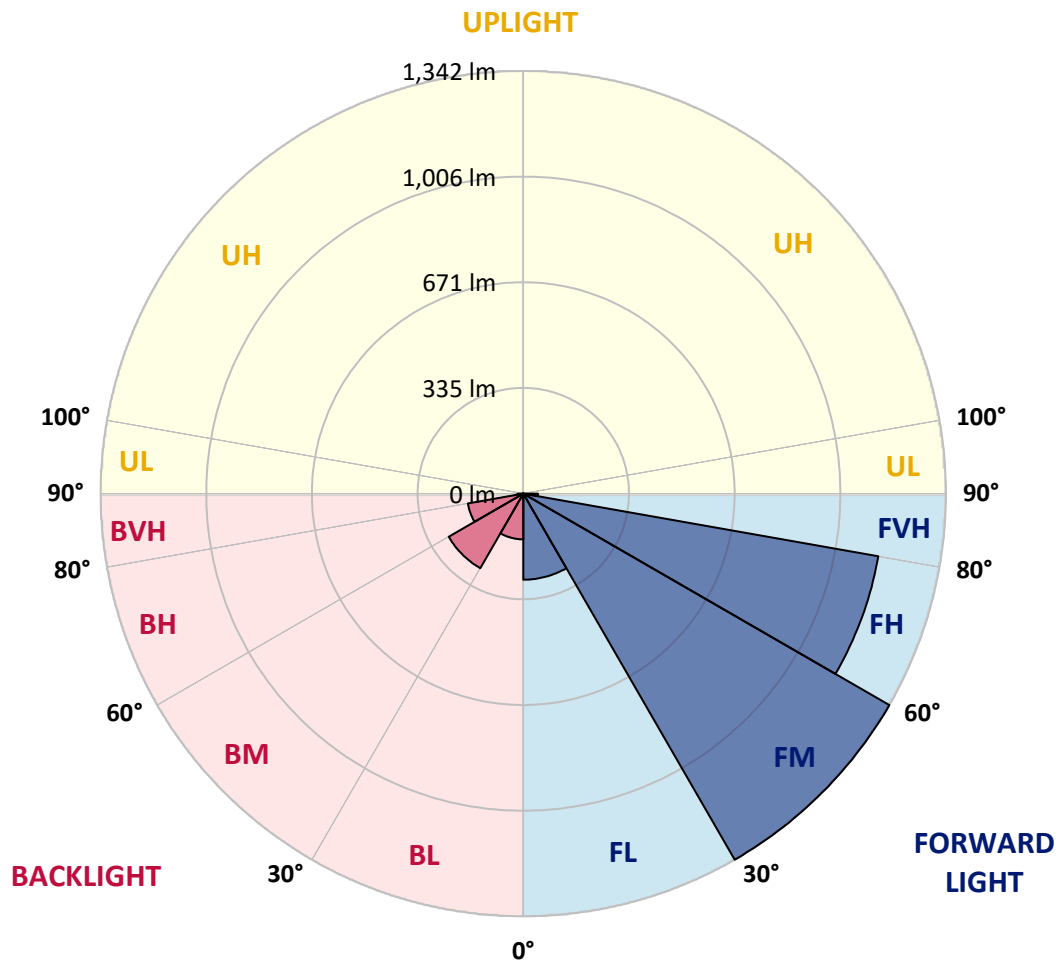
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.3	8.0			
FM (30°-60°)	1341.6	39.2			
FH (60°-80°)	1144.3	33.4			G1/1800
FVH (80°-90°)	46.4	1.4			G1/100
BL (0°-30°)	145.1	4.2	B1/500		
BM (30°-60°)	273.3	8.0	B1/1000		
BH (60°-80°)	178.8	5.2	B1/500		G1/500
BVH (80°-90°)	18.1	0.5			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9
2.5°	466.1	463.9	464.0	460.8	456.7	452.2	445.8	440.2	435.7	433.0	425.3
5°	516.5	514.2	511.4	504.5	501.5	490.4	476.3	463.5	453.7	448.3	432.8
7.5°	557.3	556.7	556.0	552.0	544.3	528.9	516.9	494.7	480.2	469.9	443.6
10°	582.5	583.4	584.0	584.8	581.6	573.5	556.9	528.9	510.5	497.3	457.5
12.5°	595.3	596.2	599.4	606.4	610.7	609.8	596.2	568.8	543.4	526.1	472.3
15°	603.2	604.7	610.3	619.5	634.0	643.2	636.7	611.3	583.4	562.9	490.0
17.5°	611.8	613.5	619.7	632.9	651.9	671.8	679.0	657.1	626.9	602.4	509.7
20°	616.7	619.0	627.8	645.1	667.3	696.3	719.9	708.5	675.4	648.3	532.5
22.5°	624.6	626.5	634.0	652.4	679.0	715.2	760.9	758.5	729.3	694.4	557.5
25°	646.1	649.1	652.8	663.9	689.5	734.6	795.0	811.9	781.6	742.5	580.4
27.5°	686.5	688.9	688.7	690.2	704.7	751.3	824.5	864.7	833.5	791.2	602.6
30°	732.5	733.5	734.2	730.9	734.1	768.5	851.6	917.0	885.8	841.2	622.0
32.5°	788.6	790.5	784.1	775.4	772.8	793.8	873.9	969.3	947.6	892.0	641.2
35°	854.8	859.7	846.7	831.4	820.7	830.3	904.0	1022.7	1011.0	956.9	666.5
37.5°	930.3	936.4	924.3	894.4	879.2	881.8	943.3	1088.7	1091.1	1030.8	704.3
40°	992.2	1000.1	1000.5	958.2	935.0	938.1	993.1	1159.7	1187.8	1122.1	748.9
42.5°	1033.0	1040.7	1048.8	1024.0	999.7	1016.8	1051.2	1236.8	1296.4	1233.1	811.1
45°	1077.8	1084.7	1089.2	1077.9	1064.4	1108.8	1121.4	1318.8	1412.3	1357.0	879.2
47.5°	1129.7	1137.4	1141.7	1131.0	1125.9	1189.4	1197.0	1395.3	1536.0	1477.3	954.4
50°	1198.8	1204.7	1202.4	1195.7	1194.5	1251.3	1269.5	1467.0	1638.1	1606.9	1032.4
52.5°	1285.0	1291.9	1294.4	1284.8	1280.5	1295.5	1328.0	1532.2	1731.0	1718.2	1115.7
55°	1337.0	1348.1	1385.4	1400.4	1410.8	1352.7	1391.0	1604.2	1814.3	1835.5	1205.2
57.5°	1270.3	1284.6	1367.9	1443.1	1540.3	1495.6	1480.3	1679.4	1897.6	1949.3	1312.4
60°	1107.5	1110.7	1218.0	1356.6	1552.1	1679.3	1666.7	1799.0	1987.8	2064.0	1453.6
62.5°	768.3	775.0	902.0	1123.1	1405.9	1745.4	1983.7	2005.5	2117.2	2235.6	1660.6
65°	396.2	387.3	503.0	705.8	1059.9	1588.2	2240.5	2385.1	2397.7	2504.1	1952.1
67.5°	243.9	247.8	302.0	412.2	626.7	1154.3	2213.6	2849.0	2782.6	2833.7	2222.6
70°	183.1	188.0	225.3	282.0	382.1	660.0	1780.2	2961.4	3054.1	3040.9	2305.0
71°	159.3	164.3	203.1	256.7	321.0	509.4	1499.9	2843.7	3063.5	3061.2	2274.0
72.5°	135.8	139.0	169.2	217.4	270.6	357.1	1126.8	2550.4	2932.8	3007.8	2163.2
75°	106.6	109.1	122.6	165.8	213.0	219.2	604.7	1912.0	2408.8	2551.7	1800.9
77.5°	86.9	88.6	95.5	123.2	164.3	155.3	317.2	1244.5	1509.1	1652.9	1060.8
80°	69.0	70.9	75.0	83.5	123.2	110.7	151.4	630.6	729.0	727.5	423.4
82.5°	53.6	54.2	59.0	61.3	84.2	78.6	82.0	267.0	295.8	305.5	152.9
85°	33.8	35.5	52.3	47.0	50.4	46.1	40.4	106.0	130.7	128.8	61.1
87.5°	10.3	10.9	17.7	19.9	22.4	20.1	14.9	31.2	38.2	41.4	15.2
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°	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9
2.5°	422.3	420.2	412.9	406.9	401.2	395.0	389.8	388.3	387.0	386.4	386.2
5°	426.3	420.0	405.6	393.7	384.3	375.7	370.2	367.8	365.3	365.3	366.1
7.5°	431.9	420.6	398.2	380.6	368.7	360.6	356.7	356.3	356.9	357.4	357.6
10°	438.1	420.2	387.5	365.5	355.0	351.2	351.4	354.6	357.6	359.9	360.3
12.5°	444.1	418.0	374.9	351.4	344.7	345.4	350.7	357.8	363.6	366.8	367.0
15°	450.9	414.4	359.7	338.1	335.8	341.6	351.4	362.3	371.2	376.4	377.0
17.5°	456.5	408.4	343.7	325.1	327.9	338.6	352.2	366.3	377.0	383.6	384.7
20°	462.9	400.7	327.2	312.7	320.8	335.2	350.7	365.9	377.0	383.4	384.9
22.5°	468.0	389.8	311.4	302.5	314.4	331.1	345.6	357.8	366.8	370.2	372.5
25°	470.1	376.1	296.5	294.3	309.3	324.3	334.1	341.1	343.9	343.5	344.5
27.5°	468.9	360.3	283.7	287.7	302.9	313.8	318.7	318.1	313.1	308.4	310.6
30°	464.2	341.5	273.0	280.9	294.6	300.7	299.9	292.6	283.0	274.1	274.7
32.5°	455.8	321.1	263.0	273.2	283.0	285.6	280.5	270.9	257.2	245.7	244.1
35°	448.6	301.8	254.2	264.4	271.3	270.0	265.1	252.7	240.3	230.1	228.5
37.5°	447.5	285.2	245.7	254.4	258.3	256.5	250.4	239.9	235.4	227.7	226.8
40°	453.5	273.6	237.1	243.9	245.7	244.2	237.7	231.6	235.8	233.9	233.9
42.5°	469.9	267.4	229.4	233.3	234.8	236.0	231.3	226.2	231.3	222.6	219.8
45°	495.8	267.6	222.4	223.0	227.5	231.5	228.3	220.7	218.1	200.8	197.4
47.5°	534.0	274.0	216.8	213.2	221.3	227.9	223.4	212.5	200.8	189.3	187.3
50°	578.6	285.4	211.7	203.1	213.0	223.4	220.0	207.2	195.2	188.2	186.9
52.5°	628.0	299.9	205.5	191.8	202.9	221.3	220.7	206.5	189.9	185.2	184.1
55°	689.1	314.2	197.8	178.6	193.9	219.6	218.7	200.2	188.8	185.4	185.0
57.5°	760.2	334.9	186.7	165.3	183.5	212.7	210.6	196.5	185.0	182.6	182.4
60°	874.7	367.0	170.9	153.1	173.0	200.4	203.1	190.1	179.0	178.4	178.2
62.5°	1025.3	412.2	154.6	140.5	160.8	184.6	192.2	181.4	172.6	175.4	175.8
65°	1233.3	450.1	137.6	129.7	147.2	169.4	181.8	173.4	165.5	170.9	170.9
67.5°	1368.8	450.9	122.2	118.6	133.5	156.6	170.9	163.8	156.2	165.5	165.8
70°	1340.6	395.0	109.4	107.0	120.1	142.9	158.9	153.2	144.6	152.9	149.9
71°	1295.1	364.0	104.4	102.5	114.9	136.3	153.2	148.5	139.9	145.3	143.7
72.5°	1222.5	316.1	96.1	96.5	107.0	128.0	145.3	140.5	131.8	134.8	134.2
75°	1033.4	276.0	82.2	83.9	91.9	113.9	129.5	125.8	117.0	117.0	116.4
77.5°	646.1	192.9	68.3	69.2	78.0	97.6	111.3	108.1	99.7	96.8	96.1
80°	241.0	99.7	53.4	54.5	60.0	76.9	92.1	89.1	80.5	77.3	74.3
82.5°	91.2	50.0	39.3	38.4	44.2	58.7	72.2	68.6	61.9	54.2	51.9
85°	34.4	24.8	24.1	23.3	25.9	34.8	44.7	44.0	36.9	31.4	30.8
87.5°	9.0	8.1	9.4	7.0	7.3	6.6	6.8	2.8	1.3	0.6	0.4
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)