

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: P450201

Luminaire Tested: **GALN-SA1A-727-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-727-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3788 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

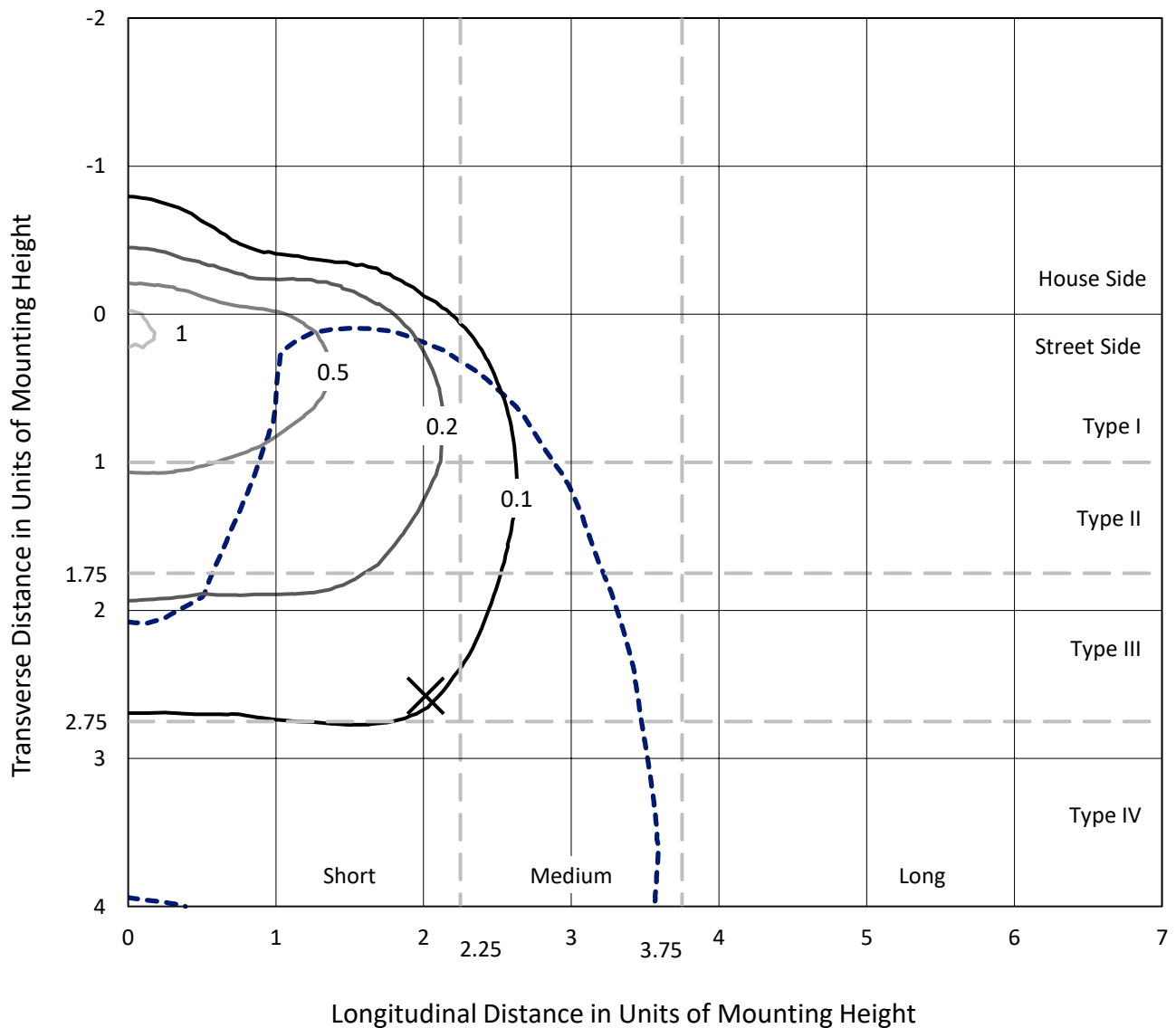
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

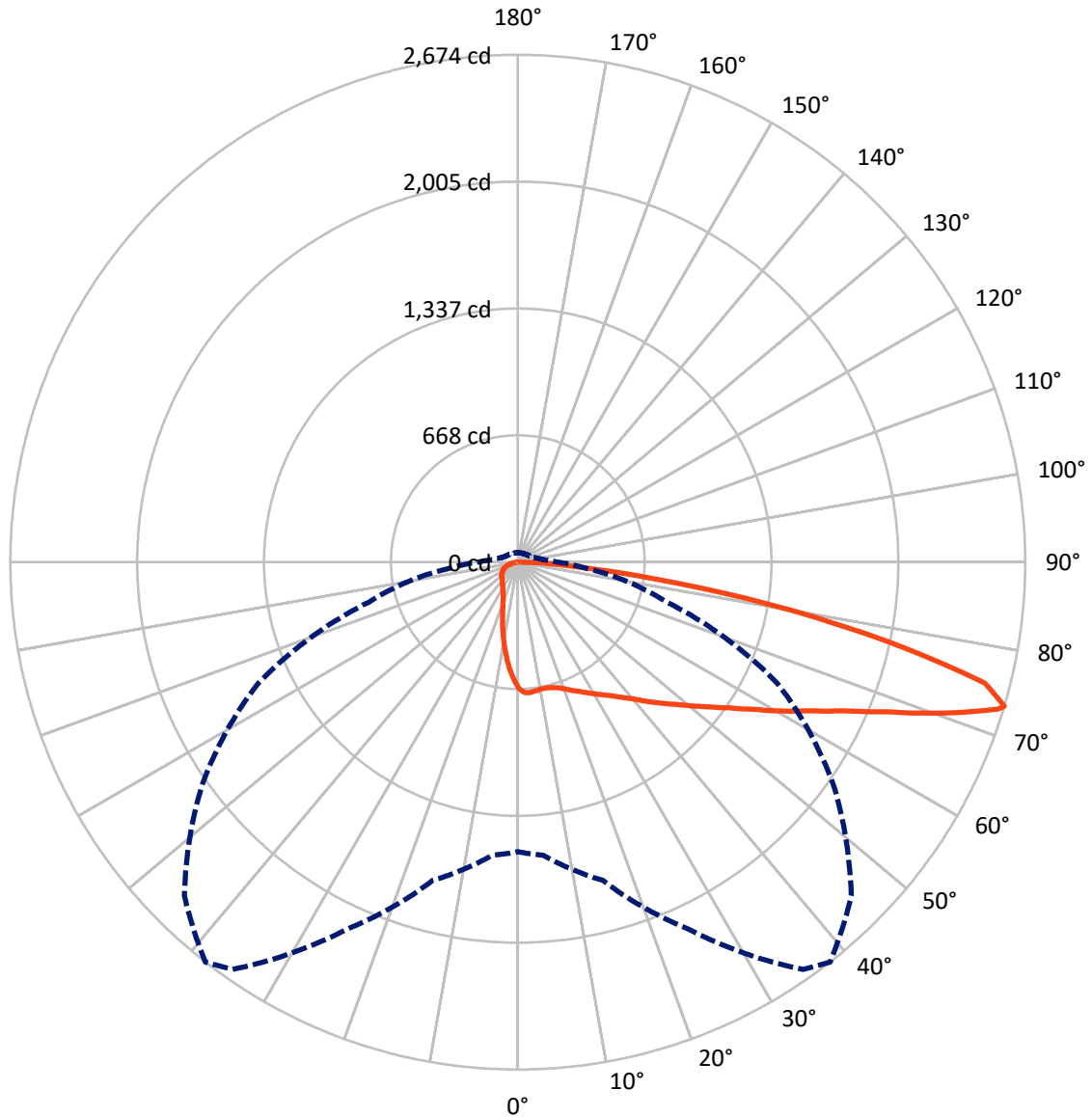
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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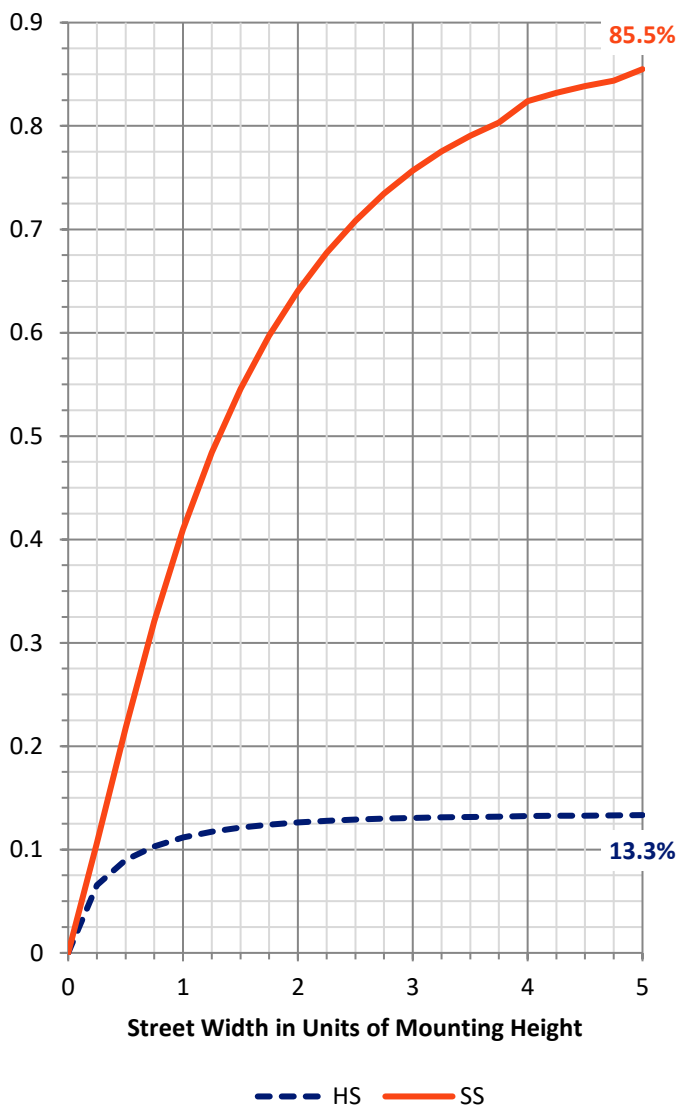
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	509.2	0.0	509.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	3278.8	0.0	3278.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	3788.0	0.0	3788.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.1	1.5
10°-20°	149.0	3.9
20°-30°	232.0	6.1
30°-40°	340.2	9.0
40°-50°	504.7	13.3
50°-60°	715.1	18.9
60°-70°	907.1	23.9
70°-80°	755.1	19.9
80°-90°	126.9	3.3
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°	3788.0	100.0
0°-180°	3788.0	100.0

**Coefficient of Utilization**



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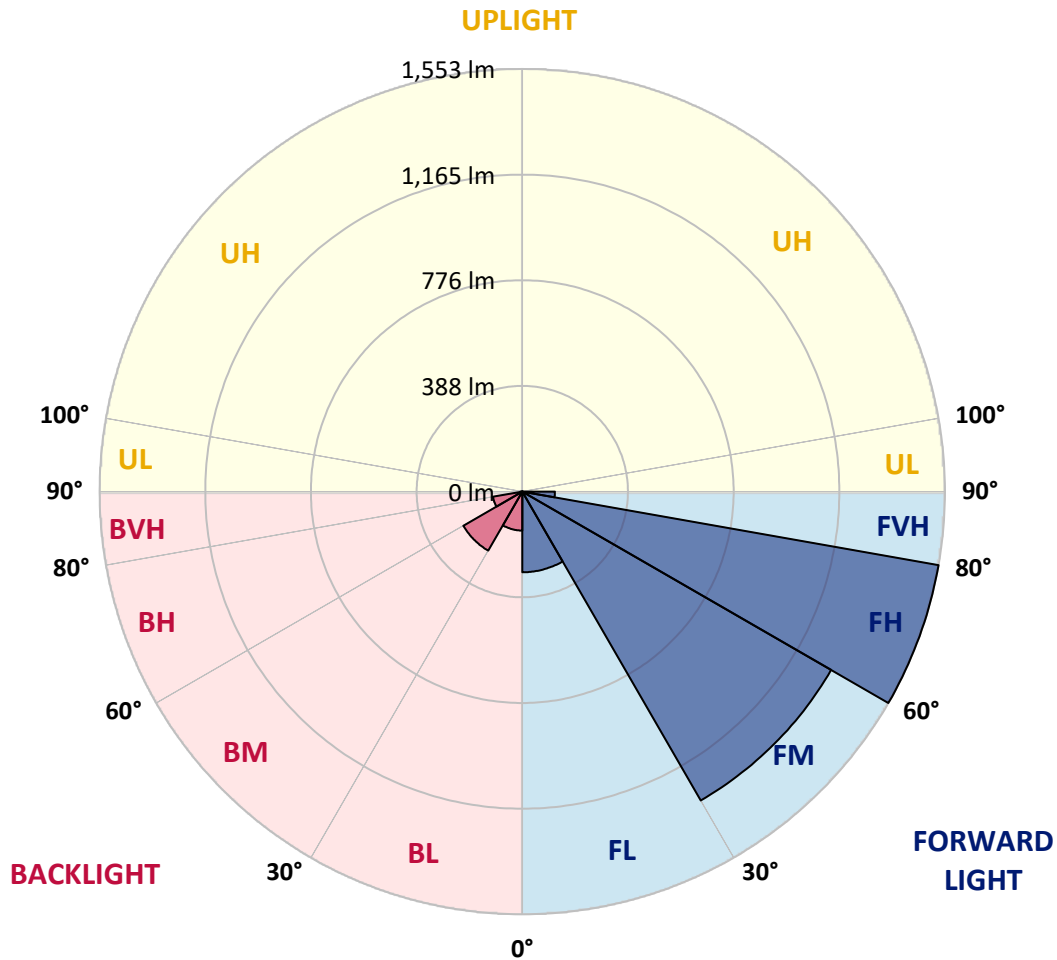
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	296.1	7.8			
FM (30°-60°)	1310.0	34.6			
FH (60°-80°)	1552.7	41.0			G1/1800
FVH (80°-90°)	120.0	3.2			G2/225
BL (0°-30°)	142.9	3.8	B1/500		
BM (30°-60°)	250.0	6.6	B1/1000		
BH (60°-80°)	109.5	2.9	B0/110		G0/110
BVH (80°-90°)	6.9	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5
2.5°	692.2	695.6	693.9	691.6	690.1	688.6	686.5	680.2	675.3	670.0	661.6
5°	697.4	699.5	698.0	695.0	691.6	690.1	686.0	677.9	670.0	661.0	648.6
7.5°	694.4	695.2	693.5	689.9	686.9	684.1	679.4	670.4	660.8	649.9	633.6
10°	683.7	686.9	686.9	683.9	680.9	679.4	674.7	666.1	657.4	645.0	625.7
12.5°	674.9	678.3	681.1	680.2	680.0	680.0	676.4	670.0	659.7	647.9	625.1
15°	668.9	673.0	679.0	682.4	684.5	685.2	683.7	678.1	667.6	653.9	627.6
17.5°	667.6	672.5	683.5	690.9	696.5	696.3	695.9	688.2	676.6	662.5	630.8
20°	673.4	679.8	695.0	706.8	714.9	713.4	711.1	701.0	687.5	671.7	633.8
22.5°	690.7	697.4	714.0	726.9	734.8	734.8	727.7	714.5	700.1	682.4	637.9
25°	715.5	722.8	740.6	753.6	757.3	754.5	747.4	731.4	714.9	697.8	646.4
27.5°	745.9	754.7	771.2	782.1	781.0	778.9	771.6	751.1	734.6	719.0	661.0
30°	783.8	790.2	807.3	809.9	806.0	805.6	795.3	774.8	759.4	747.4	681.7
32.5°	819.5	825.3	839.0	840.0	833.2	834.1	824.4	805.6	796.8	792.6	716.6
35°	857.4	860.4	872.1	870.8	866.4	865.7	861.9	843.9	846.7	854.4	766.0
37.5°	889.0	895.0	901.6	902.7	902.5	904.6	907.2	898.7	914.7	938.9	830.8
40°	918.1	923.3	933.1	936.5	944.9	949.1	957.9	958.1	995.1	1034.9	910.6
42.5°	937.8	946.6	965.0	971.2	991.5	1004.3	1017.4	1031.3	1085.0	1136.1	1004.8
45°	954.9	966.5	997.1	1016.3	1043.9	1059.5	1087.1	1116.2	1193.4	1260.4	1100.4
47.5°	980.8	991.1	1026.1	1060.2	1101.9	1119.8	1161.1	1204.6	1305.5	1378.9	1191.9
50°	1016.7	1022.9	1058.7	1114.1	1167.3	1190.4	1245.0	1307.7	1425.3	1495.9	1272.4
52.5°	1062.7	1065.3	1093.7	1167.5	1237.7	1266.4	1338.7	1411.8	1530.1	1597.5	1336.1
55°	1117.1	1112.8	1135.0	1224.2	1318.1	1355.6	1433.2	1517.3	1648.0	1679.7	1382.5
57.5°	1170.8	1164.1	1181.9	1293.1	1417.4	1462.5	1553.0	1626.0	1753.2	1756.5	1415.0
60°	1227.7	1222.7	1243.9	1374.0	1539.1	1592.6	1676.2	1738.7	1855.1	1809.9	1420.2
62.5°	1286.1	1278.1	1308.3	1464.9	1676.2	1724.8	1805.9	1858.5	1955.0	1829.8	1370.8
65°	1342.7	1339.1	1385.7	1572.9	1832.4	1887.6	1966.3	2002.0	2035.0	1799.9	1248.2
67.5°	1403.1	1410.3	1484.8	1717.1	2036.0	2105.3	2190.3	2156.7	2057.9	1658.0	1051.2
70°	1495.0	1499.8	1614.8	1906.0	2298.5	2382.1	2423.2	2211.7	1947.5	1388.7	790.2
72.5°	1534.6	1555.4	1731.0	2104.3	2596.7	2647.8	2501.5	2089.1	1622.3	943.4	415.2
73°	1525.9	1550.7	1736.3	2134.4	2620.0	2673.7	2484.8	2026.0	1508.1	812.4	356.0
75°	1416.5	1447.1	1666.8	2109.2	2574.7	2542.6	2216.6	1726.7	1019.1	369.4	162.1
77.5°	1117.7	1126.5	1320.7	1703.2	2027.5	1968.0	1658.9	1079.2	416.3	137.3	92.0
80°	560.7	593.0	744.4	975.7	1355.8	1336.3	1047.1	510.4	173.5	80.6	61.0
82.5°	269.7	292.6	362.6	475.7	749.1	731.4	518.5	278.9	110.2	47.1	35.9
85°	173.7	190.8	230.8	227.0	308.0	294.1	233.0	211.1	65.2	24.6	25.0
87.5°	114.7	125.6	150.6	120.4	112.1	101.4	102.9	118.9	12.8	9.4	3.4
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°	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5	665.5
2.5°	658.2	655.4	646.2	637.3	628.7	620.6	615.2	608.2	603.5	604.7	606.7
5°	641.7	635.5	619.3	603.5	588.5	570.7	556.4	544.8	536.1	532.9	532.2
7.5°	624.4	613.9	590.6	563.5	538.0	516.0	490.5	477.9	463.1	458.0	456.3
10°	613.9	599.8	567.1	529.2	490.9	454.4	426.8	404.3	384.0	380.1	378.2
12.5°	610.9	592.3	548.3	499.5	448.6	403.7	362.8	333.3	313.6	309.1	302.5
15°	609.2	586.1	530.7	469.5	404.9	350.2	307.2	272.7	254.8	242.8	243.0
17.5°	607.7	579.1	511.0	436.8	367.3	304.2	256.7	225.7	209.2	202.8	202.1
20°	605.6	570.7	488.4	402.4	324.3	262.3	219.3	196.2	185.0	179.7	179.5
22.5°	604.7	562.6	466.1	367.3	286.2	230.0	194.4	178.2	171.1	167.5	167.5
25°	606.9	556.8	442.8	333.9	252.4	202.4	177.3	166.2	162.1	160.2	159.6
27.5°	613.5	554.3	419.7	300.5	221.4	183.5	165.8	158.1	155.1	153.6	153.8
30°	626.1	554.0	397.0	267.6	198.3	169.2	156.6	151.2	148.9	148.0	147.8
32.5°	646.4	558.7	374.8	240.4	178.8	157.2	148.0	144.2	143.1	142.5	142.3
35°	680.9	572.0	352.7	215.6	163.9	146.5	139.9	138.0	136.5	137.1	137.3
37.5°	727.3	594.9	331.8	196.2	152.5	138.6	133.1	131.3	130.5	131.1	131.8
40°	789.6	627.8	314.2	180.5	144.4	132.0	127.1	125.6	124.7	125.8	126.0
42.5°	858.2	665.9	299.7	168.4	137.8	126.4	121.7	120.0	119.4	120.0	120.2
45°	928.8	710.2	292.2	159.6	132.2	122.4	117.4	115.5	114.0	113.6	114.2
47.5°	998.3	748.7	292.0	154.2	127.7	118.7	113.4	111.2	109.3	108.2	108.0
50°	1055.0	779.3	297.1	151.9	123.9	114.7	109.3	107.2	104.6	102.5	102.9
52.5°	1097.8	799.2	299.5	150.8	121.7	110.4	105.0	103.1	100.1	97.3	97.3
55°	1125.4	803.9	293.7	149.7	120.0	105.9	100.1	98.4	95.4	92.6	92.6
57.5°	1134.8	789.3	273.0	147.2	118.3	102.0	95.2	93.7	91.3	88.6	88.1
60°	1113.0	740.1	236.6	139.5	114.9	98.0	89.8	89.2	88.3	86.0	85.8
62.5°	1028.9	635.8	197.0	129.4	109.1	93.7	84.9	86.0	86.6	85.4	85.1
65°	889.0	516.2	168.4	115.5	101.4	87.7	79.6	82.4	84.1	84.1	83.6
67.5°	721.1	396.4	141.8	103.5	91.8	79.6	73.6	75.7	77.0	76.6	77.7
70°	512.5	268.5	115.5	89.8	79.6	70.4	65.9	65.9	65.0	64.6	64.6
72.5°	248.6	153.4	93.7	75.1	67.8	60.1	56.5	55.0	53.3	53.1	52.0
73°	207.7	137.5	89.4	72.3	65.0	58.6	54.5	52.2	51.1	50.3	50.1
75°	126.4	104.4	74.7	61.0	55.4	50.5	46.8	44.7	43.6	43.0	42.8
77.5°	83.2	77.9	58.0	46.6	42.4	39.4	37.9	35.7	35.1	34.2	34.2
80°	62.0	59.5	41.5	32.9	30.4	27.8	27.4	27.0	25.2	24.2	23.7
82.5°	40.0	42.4	28.2	22.0	19.3	17.1	17.3	18.0	16.3	14.8	14.3
85°	28.5	30.6	17.1	10.1	8.1	7.1	7.9	7.1	7.3	5.8	4.7
87.5°	4.7	8.1	3.0	1.3	0.6	0.4	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)