

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: P450299

Luminaire Tested: **GALN-SA1A-750-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-750-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4589 lumens  
Efficiency: N/A  
Efficacy: 139.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

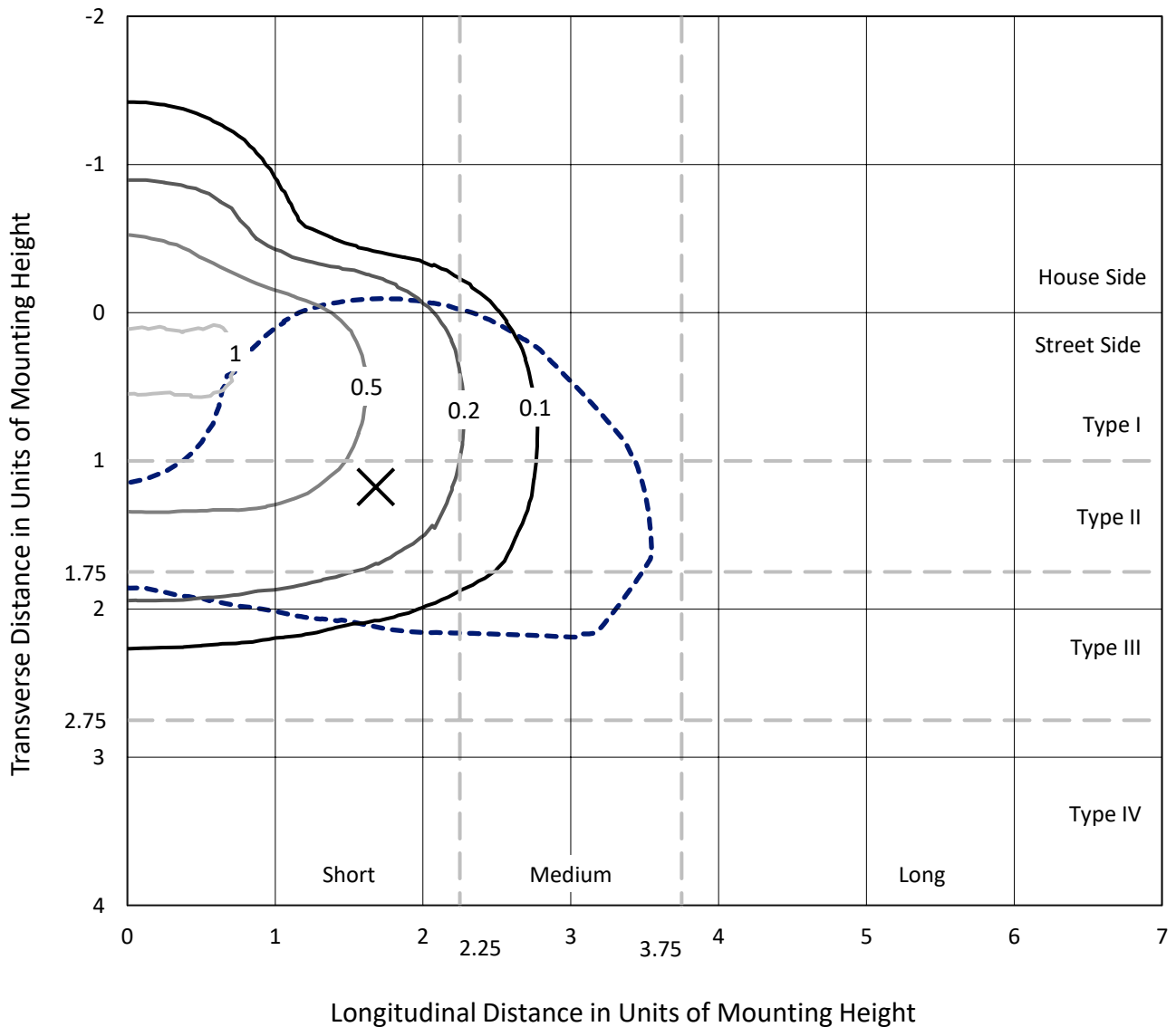
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

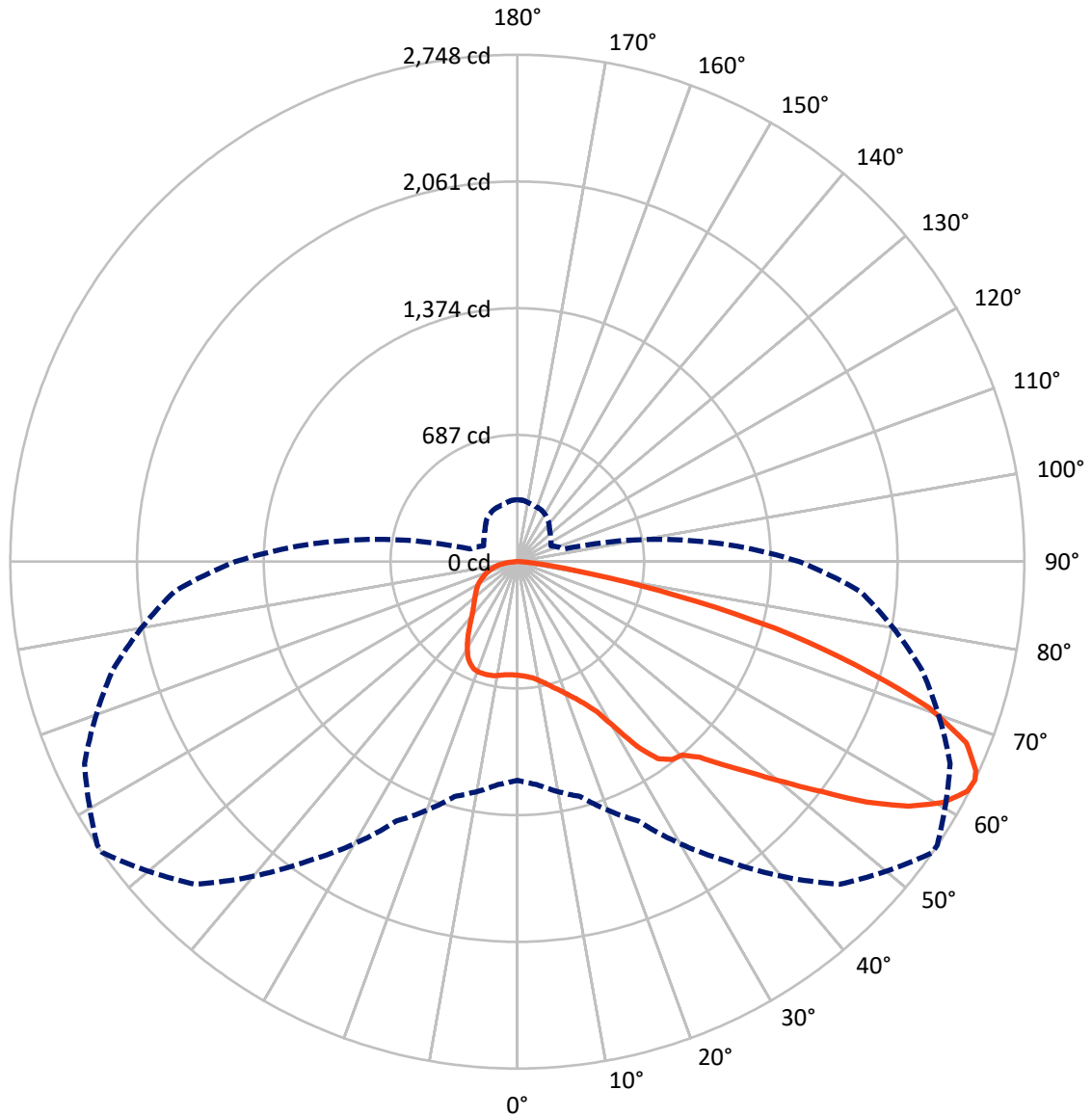
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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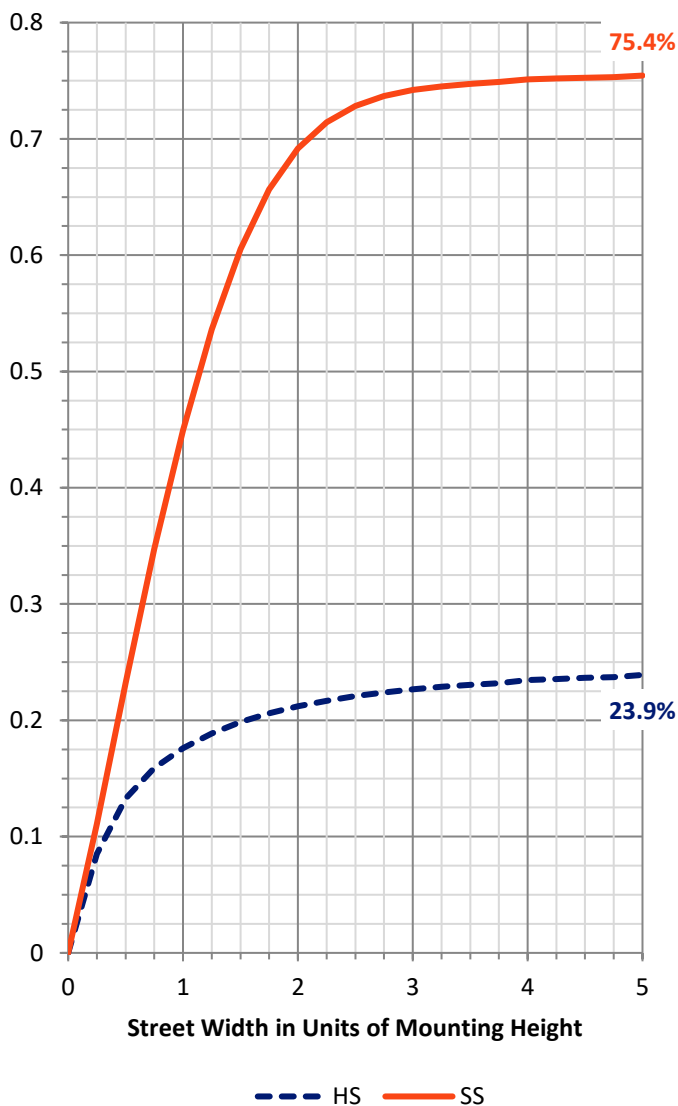
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1114.8	0.0	1114.8
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	3474.2	0.0	3474.2
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	4589.0	0.0	4589.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.9	1.3
10°-20°	189.0	4.1
20°-30°	336.4	7.3
30°-40°	517.6	11.3
40°-50°	733.8	16.0
50°-60°	1062.1	23.1
60°-70°	1099.2	24.0
70°-80°	514.8	11.2
80°-90°	76.2	1.7
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°	4589.0	100.0
0°-180°	4589.0	100.0

**Coefficient of Utilization**



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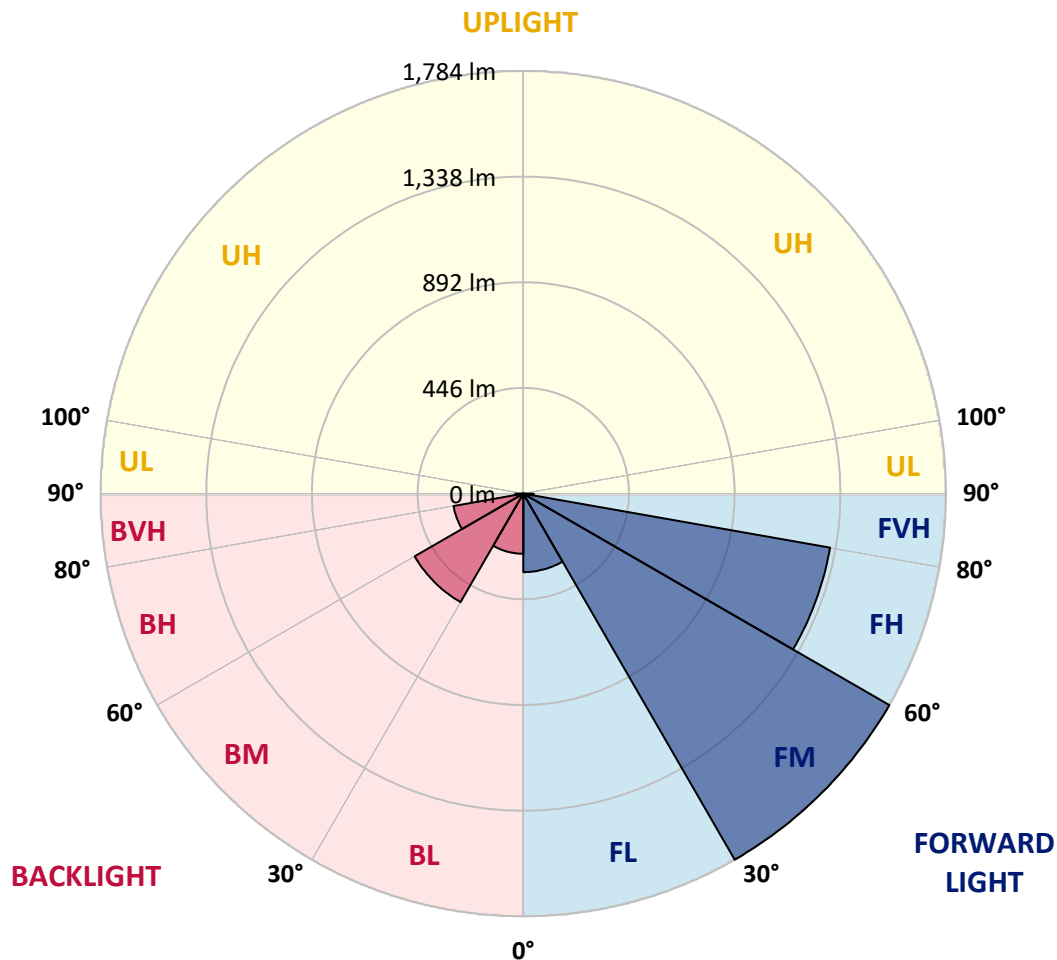
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.4	7.2			
FM (30°-60°)	1784.3	38.9			
FH (60°-80°)	1314.9	28.7			G1/1800
FVH (80°-90°)	43.6	1.0			G1/100
BL (0°-30°)	253.9	5.5	B1/500		
BM (30°-60°)	529.2	11.5	B1/1000		
BH (60°-80°)	299.1	6.5	B1/500		G1/500
BVH (80°-90°)	32.6	0.7			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7
2.5°	622.6	622.4	623.1	622.4	622.9	621.1	620.3	620.8	620.1	618.8	616.5
5°	630.3	630.0	630.3	629.3	629.8	628.8	627.0	627.5	626.2	623.4	620.1
7.5°	643.3	642.3	642.3	642.1	641.0	639.5	638.2	637.7	636.4	632.8	627.7
10°	660.2	660.2	660.5	658.4	659.7	656.9	655.6	655.4	651.0	646.4	639.2
12.5°	682.5	683.7	683.0	682.0	681.4	680.4	676.1	677.1	672.2	664.3	655.6
15°	710.1	712.1	710.9	710.4	709.1	705.2	703.4	702.7	696.3	684.8	673.3
17.5°	746.7	744.1	743.1	741.8	736.4	733.6	730.6	730.0	724.4	710.9	693.0
20°	778.6	782.2	780.2	778.9	773.5	768.2	765.9	765.1	760.2	745.4	716.7
22.5°	816.8	817.5	818.3	815.2	812.7	808.6	804.5	803.2	801.4	786.1	751.0
25°	857.4	860.5	857.9	854.9	851.8	851.6	855.4	854.9	854.1	839.3	796.6
27.5°	923.7	926.5	927.3	923.9	912.2	913.2	921.9	924.7	936.5	911.9	855.1
30°	961.0	963.8	970.2	982.8	1001.4	1017.8	1038.8	1045.2	1056.4	1010.1	924.7
32.5°	984.1	985.1	996.6	1019.9	1075.9	1137.0	1194.1	1196.4	1203.5	1138.6	988.4
35°	1020.4	1021.1	1030.4	1055.9	1121.7	1223.5	1311.7	1314.5	1308.7	1178.5	1018.1
37.5°	1065.1	1067.2	1073.1	1094.3	1172.8	1295.9	1360.6	1358.5	1306.4	1210.2	1070.5
40°	1130.4	1130.4	1123.5	1152.1	1226.8	1337.3	1377.7	1374.1	1360.3	1302.0	1150.3
42.5°	1187.9	1186.9	1203.3	1222.7	1294.3	1401.3	1449.6	1455.5	1478.3	1417.4	1241.1
45°	1262.9	1267.5	1276.7	1312.0	1409.2	1510.5	1572.9	1578.5	1610.8	1553.2	1347.3
47.5°	1338.6	1340.1	1369.0	1416.1	1551.4	1658.6	1709.8	1719.0	1748.4	1712.1	1461.6
50°	1392.3	1406.9	1453.2	1527.4	1698.0	1839.2	1879.1	1890.1	1942.0	1885.0	1594.9
52.5°	1449.1	1463.4	1520.0	1633.0	1866.3	2023.9	2073.0	2080.4	2134.4	2059.9	1731.2
55°	1497.7	1511.0	1575.2	1726.6	2000.3	2212.4	2301.4	2292.7	2318.6	2194.7	1836.4
57.5°	1505.6	1516.4	1597.2	1786.5	2101.1	2374.1	2501.7	2506.8	2476.9	2295.5	1923.1
60°	1444.2	1466.2	1559.1	1780.1	2146.4	2486.6	2651.1	2654.7	2569.7	2347.2	1957.6
62.5°	1335.5	1333.2	1445.5	1677.3	2083.0	2512.2	2739.1	2735.2	2606.1	2322.4	1924.1
64°	1185.4	1213.0	1317.9	1550.9	1980.6	2472.8	2748.3	2746.2	2588.7	2270.7	1867.1
65°	1093.8	1092.3	1195.9	1447.6	1878.8	2413.5	2731.9	2729.1	2552.4	2224.4	1822.8
67.5°	789.6	793.2	895.5	1117.1	1527.4	2181.4	2625.3	2614.8	2409.1	2070.9	1654.5
70°	478.3	480.4	560.7	741.0	1096.3	1763.5	2366.4	2366.9	2189.9	1841.7	1408.2
72.5°	252.0	257.3	289.6	420.8	665.8	1237.3	1919.8	1965.3	1880.1	1571.9	1112.5
75°	140.2	140.9	163.7	207.5	339.7	692.4	1443.0	1456.0	1488.5	1265.2	822.6
77.5°	106.9	108.5	115.6	134.0	184.9	321.0	873.3	938.8	1049.0	892.0	469.4
80°	86.7	88.3	94.4	105.4	123.0	152.2	405.7	441.0	561.5	396.0	183.2
82.5°	67.5	66.5	74.4	81.6	89.5	90.0	166.5	184.2	228.7	170.4	79.3
85°	50.1	50.1	56.5	55.0	57.8	52.7	73.4	81.1	91.6	72.4	36.8
87.5°	20.0	22.0	37.1	33.3	25.8	20.7	27.1	28.6	31.7	28.4	15.3
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°	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7	615.7
2.5°	616.7	617.5	615.7	614.4	613.9	613.1	612.4	612.6	613.7	614.7	614.4
5°	619.8	620.1	617.0	615.4	614.4	613.4	613.4	614.2	616.2	617.8	617.8
7.5°	627.5	627.5	623.1	620.3	618.8	617.0	616.5	616.7	618.3	620.3	620.6
10°	639.5	638.5	632.8	628.5	625.7	621.3	617.5	615.4	616.2	617.5	617.5
12.5°	654.1	651.3	644.1	638.2	631.3	623.1	615.2	611.1	610.8	612.1	611.6
15°	669.7	666.6	656.6	645.9	633.9	621.8	612.4	606.5	601.9	600.6	603.4
17.5°	687.8	681.4	667.6	652.8	634.9	619.3	604.5	592.4	584.2	581.9	582.7
20°	709.8	701.4	682.7	659.4	634.1	610.1	587.1	570.9	557.6	553.5	554.1
22.5°	740.3	725.7	698.3	662.8	627.7	592.7	560.7	539.7	523.6	517.2	521.1
25°	774.8	759.0	713.2	662.0	611.1	564.8	529.5	502.1	487.6	478.1	480.1
27.5°	822.4	794.3	729.0	655.1	587.3	530.8	489.9	464.0	450.7	445.9	448.2
30°	883.3	840.0	746.2	636.4	549.7	487.8	449.9	433.1	425.1	419.0	421.0
32.5°	927.3	872.3	750.0	605.0	509.0	448.7	422.8	410.3	401.6	395.7	397.0
35°	958.7	899.6	748.2	566.3	466.6	416.4	401.3	391.1	377.0	364.3	362.0
37.5°	1000.9	933.9	735.2	524.1	424.6	394.7	384.0	365.0	344.8	327.7	326.9
40°	1065.7	974.1	707.3	474.5	388.8	378.6	365.5	341.0	319.2	305.4	304.4
42.5°	1132.4	1011.2	669.4	422.3	359.4	361.7	345.8	321.5	308.2	299.3	298.3
45°	1214.0	1051.3	628.5	377.0	337.7	345.8	328.7	314.6	306.7	300.8	299.3
47.5°	1302.3	1092.5	582.5	336.4	319.2	331.3	321.5	315.1	310.8	306.7	304.9
50°	1397.4	1138.6	539.2	303.6	302.6	316.2	320.8	318.5	315.9	314.6	313.1
52.5°	1501.8	1185.6	502.9	280.6	288.0	305.4	321.0	322.8	322.8	322.0	321.0
55°	1572.4	1218.4	466.1	261.9	273.2	296.7	320.5	327.4	330.0	329.0	327.9
57.5°	1624.6	1236.3	419.8	245.8	260.7	288.3	317.7	327.9	330.5	331.8	331.3
60°	1635.3	1219.6	359.1	228.9	247.1	276.0	307.5	320.3	323.6	331.5	332.3
62.5°	1587.0	1168.5	298.8	212.3	230.5	257.3	293.7	311.6	318.2	330.5	331.8
64°	1527.6	1111.2	265.3	201.8	219.7	246.8	286.7	309.3	318.0	334.3	335.4
65°	1484.1	1069.5	244.3	195.2	212.8	239.9	282.9	310.0	320.3	340.2	341.7
67.5°	1324.0	926.0	202.1	179.6	196.5	228.2	283.7	316.4	319.7	342.5	342.3
70°	1095.6	737.2	169.3	165.2	180.6	218.7	280.6	306.2	306.4	321.5	318.0
72.5°	820.3	544.8	146.8	150.4	162.9	196.2	265.0	292.4	288.0	290.1	286.5
75°	563.5	360.4	126.4	134.5	144.5	173.4	243.0	265.5	258.6	256.1	253.5
77.5°	300.8	199.3	105.1	118.9	125.6	149.9	212.1	233.8	226.6	216.7	213.3
80°	121.8	93.9	84.7	98.5	102.3	120.7	176.5	190.1	184.7	167.3	161.7
82.5°	61.1	56.3	66.5	77.5	77.8	86.2	131.2	144.0	132.0	110.8	105.9
85°	32.0	33.0	45.8	54.5	48.1	46.6	78.8	87.2	80.1	69.6	62.7
87.5°	11.5	13.3	24.0	23.8	16.9	9.0	17.4	8.4	4.6	2.8	3.6
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)