

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: P450272

Luminaire Tested: **GALN-SA1A-740-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450272  
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-740-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 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: 4735 lumens  
Efficiency: N/A  
Efficacy: 143.5 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

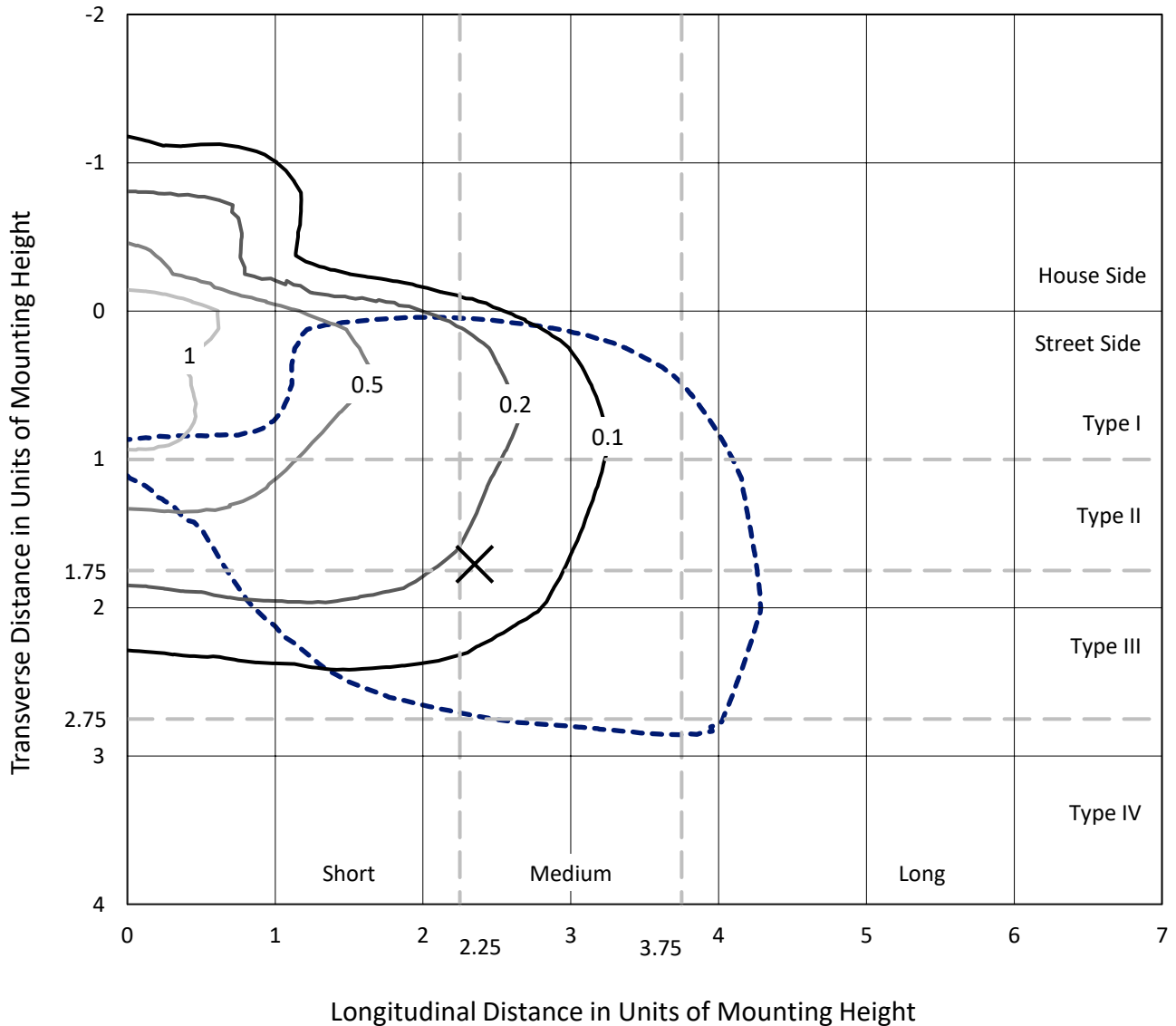
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

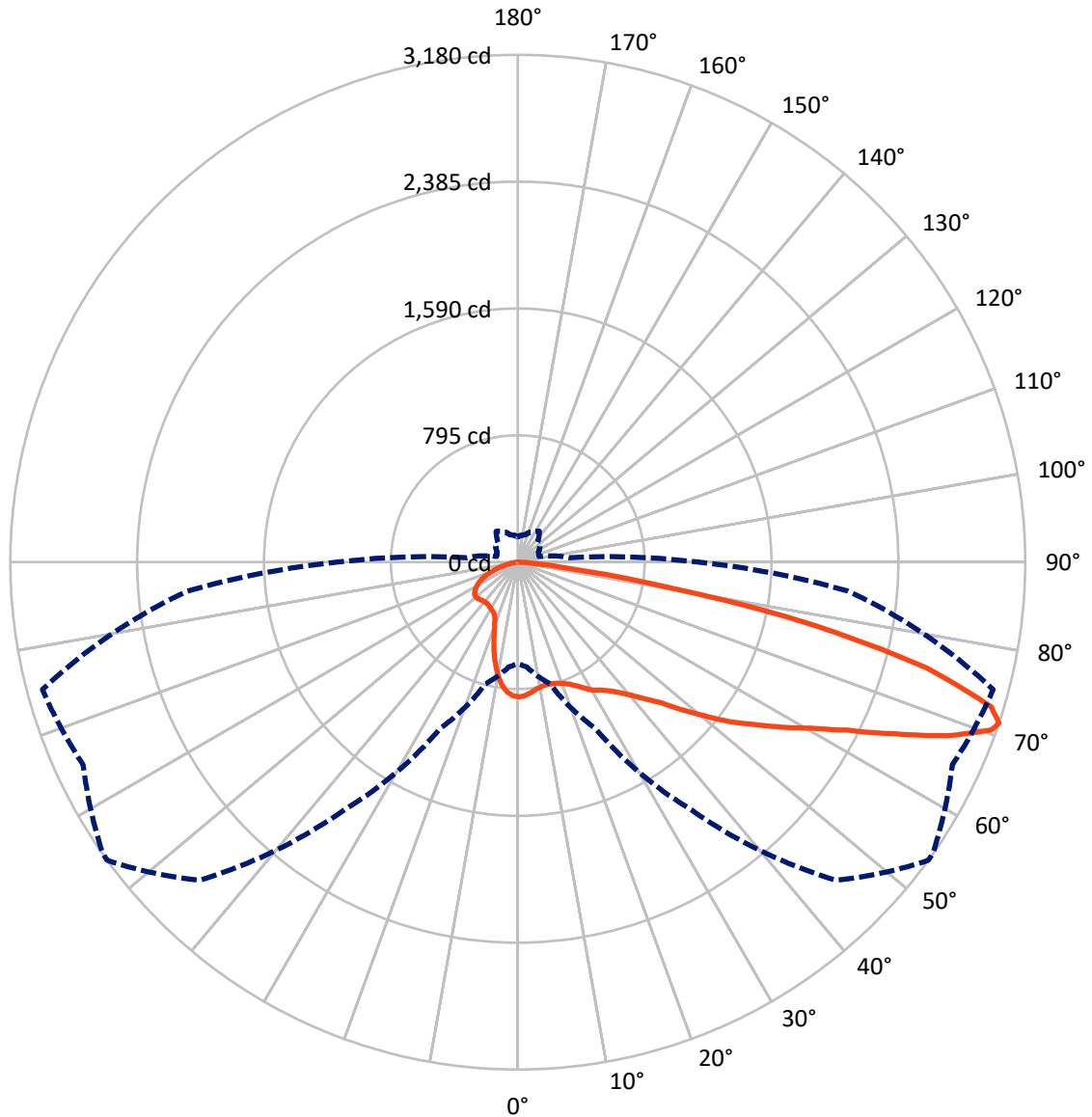
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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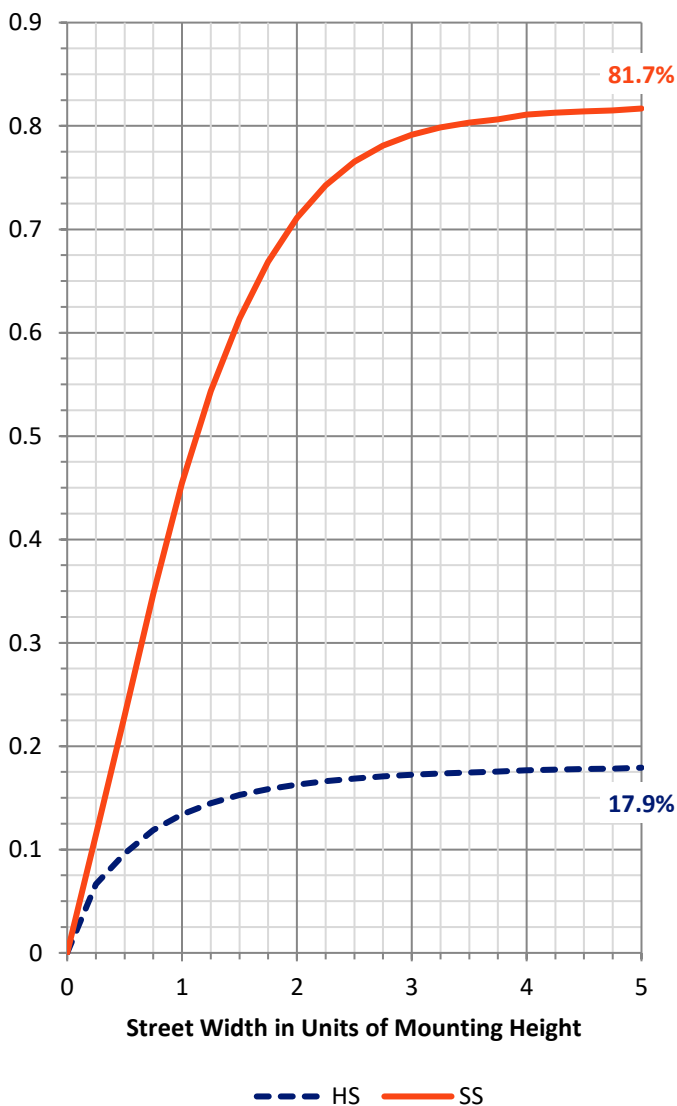
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	854.9	0.0	854.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	3880.1	0.0	3880.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	4735.0	0.0	4735.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.3	1.6
10°-20°	198.8	4.2
20°-30°	331.0	7.0
30°-40°	489.4	10.3
40°-50°	689.4	14.6
50°-60°	923.1	19.5
60°-70°	1163.5	24.6
70°-80°	794.7	16.8
80°-90°	69.9	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°	4735.0	100.0
0°-180°	4735.0	100.0



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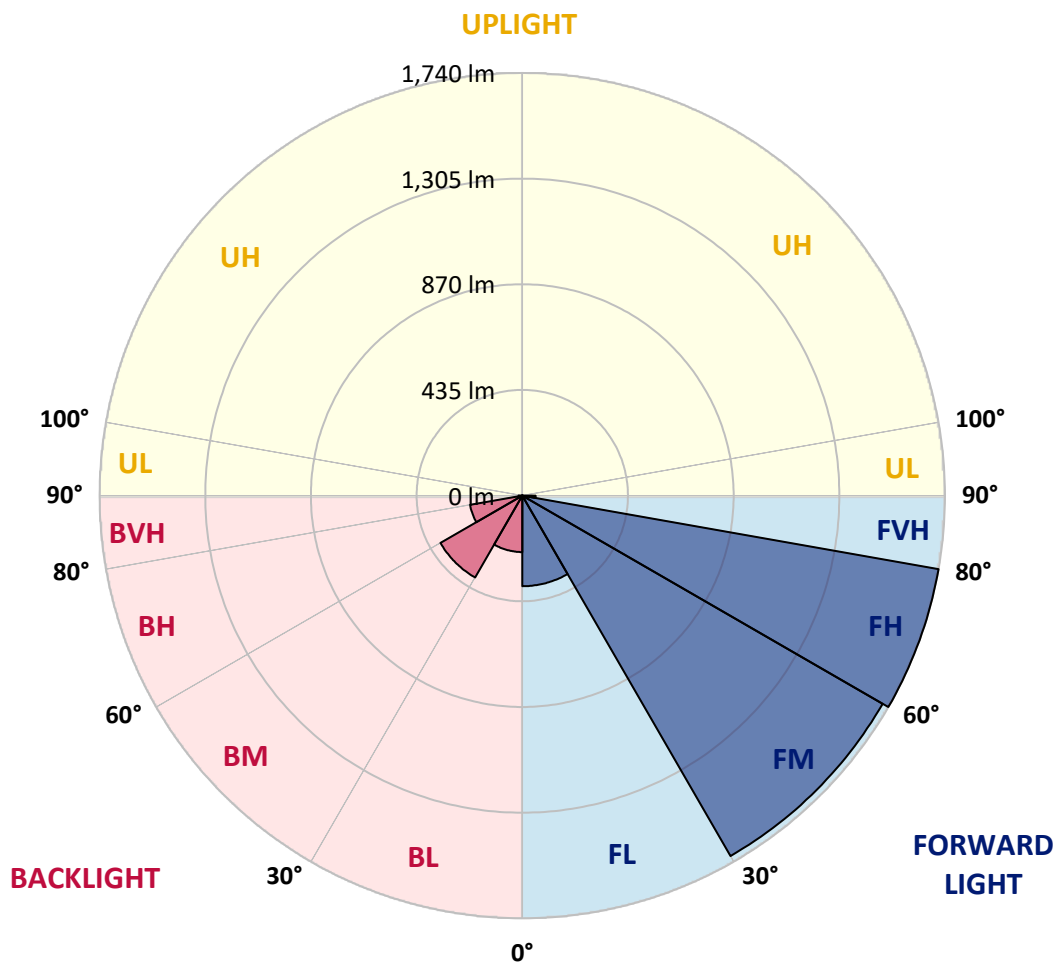
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	372.7	7.9			
FM (30°-60°)	1713.0	36.2			
FH (60°-80°)	1739.8	36.7			G1/1800
FVH (80°-90°)	54.6	1.2			G1/100
BL (0°-30°)	232.3	4.9	B1/500		
BM (30°-60°)	388.9	8.2	B1/1000		
BH (60°-80°)	218.3	4.6	B1/500		G1/500
BVH (80°-90°)	15.3	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°	844.8	844.8	844.8	844.8	844.8	844.8	844.8	844.8	844.8	844.8	844.8
2.5°	816.1	820.0	821.0	823.6	828.9	833.3	837.6	837.1	843.3	845.8	848.1
5°	779.8	780.9	784.7	789.8	799.3	811.3	823.1	823.3	838.4	850.4	856.3
7.5°	753.2	756.6	759.1	764.5	774.5	787.5	806.2	807.7	834.6	858.3	870.9
10°	735.8	739.7	742.5	749.1	759.1	773.7	793.9	796.7	831.8	870.9	892.9
12.5°	720.0	723.8	726.4	735.1	748.1	766.0	788.8	792.1	832.8	885.5	916.9
15°	729.7	732.8	731.7	734.3	743.0	763.5	790.8	794.2	836.6	899.5	940.7
17.5°	772.9	775.5	767.0	757.3	753.2	768.3	797.2	800.8	844.3	914.1	965.0
20°	836.6	843.5	825.1	803.4	783.7	785.7	810.5	814.4	855.0	928.7	989.8
22.5°	919.5	924.6	902.1	866.3	830.0	811.3	830.5	832.8	871.1	947.6	1016.9
25°	1016.9	1020.0	988.8	942.8	890.3	855.0	857.8	861.9	897.7	969.1	1041.0
27.5°	1111.6	1121.3	1085.2	1028.9	959.9	901.1	895.4	898.0	926.6	981.1	1057.6
30°	1223.8	1223.1	1185.0	1119.7	1031.2	951.2	931.0	930.5	942.2	987.0	1069.6
32.5°	1313.4	1323.8	1286.5	1215.4	1112.8	1003.1	955.5	954.5	954.3	997.2	1087.5
35°	1415.2	1416.7	1382.4	1310.8	1201.1	1068.3	989.8	984.7	978.8	1019.2	1111.8
37.5°	1506.2	1513.4	1481.9	1401.6	1287.8	1136.1	1036.9	1033.5	1015.6	1057.3	1150.7
40°	1577.3	1582.7	1563.8	1487.3	1373.2	1209.3	1096.7	1090.6	1068.8	1119.7	1202.6
42.5°	1600.6	1611.6	1619.0	1581.4	1471.4	1296.0	1170.4	1162.7	1146.1	1214.4	1262.5
45°	1602.4	1619.8	1658.9	1660.7	1570.1	1399.8	1256.3	1251.0	1249.7	1335.6	1346.6
47.5°	1588.8	1606.5	1672.2	1707.7	1658.1	1504.7	1380.4	1371.9	1372.7	1485.5	1441.0
50°	1556.1	1577.1	1656.9	1737.9	1726.9	1613.6	1511.3	1508.5	1524.4	1656.6	1538.9
52.5°	1494.4	1519.8	1641.0	1756.9	1778.1	1707.5	1660.2	1652.2	1692.4	1842.3	1646.1
55°	1323.8	1362.0	1582.9	1767.3	1826.7	1797.3	1794.2	1808.5	1861.7	2044.8	1764.0
57.5°	1234.8	1263.5	1456.8	1769.1	1888.1	1901.6	1950.7	1954.3	2047.4	2259.9	1897.3
60°	1186.2	1211.6	1387.8	1757.4	1973.7	2030.8	2110.8	2123.6	2228.7	2492.9	2035.4
62.5°	1143.8	1165.5	1346.4	1716.7	2070.4	2222.3	2318.3	2324.4	2434.6	2750.2	2171.7
65°	1043.8	1068.6	1263.0	1676.0	2153.8	2461.7	2593.5	2586.3	2653.8	2972.3	2257.1
67.5°	909.0	940.5	1107.2	1535.6	2195.0	2723.4	2903.5	2894.5	2870.2	3117.8	2281.7
70°	736.9	753.7	908.0	1292.9	2030.5	2860.7	3148.2	3138.8	3004.2	3137.0	2165.6
71°	634.0	660.4	790.6	1148.4	1893.7	2818.8	3179.7	3177.1	3004.5	3084.0	2078.1
72.5°	494.9	511.0	626.1	889.8	1609.5	2580.4	3101.9	3111.6	2939.3	2937.0	1897.8
75°	313.1	320.2	392.9	523.8	883.2	1827.4	2647.9	2674.3	2609.8	2403.9	1411.3
77.5°	181.8	191.1	235.3	308.7	381.6	991.9	1894.7	1923.4	1813.4	1323.6	577.8
80°	105.9	116.1	155.0	179.3	175.2	368.0	964.7	1013.6	785.2	334.3	162.2
82.5°	58.8	65.7	109.0	109.2	93.4	120.2	303.6	317.7	224.1	134.8	66.2
85°	42.7	48.3	70.3	63.7	44.8	51.7	105.6	110.7	90.5	56.8	21.5
87.5°	15.1	21.5	38.6	30.7	12.3	10.7	30.4	24.8	23.0	15.9	4.9
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°	844.8	844.8	844.8	844.8	844.8	844.8	844.8	844.8	844.8	844.8	844.8
2.5°	849.4	849.9	847.4	842.7	838.1	832.3	825.6	820.5	818.2	817.9	817.7
5°	858.6	859.9	850.2	835.8	820.0	800.5	783.9	765.0	760.1	752.5	754.8
7.5°	873.4	872.7	853.5	823.1	786.0	744.8	710.0	689.8	668.8	662.9	663.2
10°	894.7	889.8	853.5	797.0	735.1	673.9	625.3	594.7	578.0	564.2	559.1
12.5°	917.2	904.9	845.3	760.4	669.6	594.7	542.5	501.0	490.3	479.0	479.3
15°	938.7	918.2	829.2	709.0	599.0	510.0	459.4	434.5	431.2	432.5	432.2
17.5°	958.1	927.7	804.6	651.7	516.6	437.4	410.5	412.3	421.2	427.6	428.4
20°	977.8	933.3	768.1	575.0	438.9	393.4	394.4	408.5	422.0	430.7	432.0
22.5°	996.5	935.8	725.1	500.8	382.6	374.7	389.8	404.9	418.2	426.6	427.9
25°	1008.7	930.0	664.2	423.3	355.0	368.0	383.9	396.7	407.9	416.6	418.7
27.5°	1012.1	911.0	588.8	360.6	342.2	361.7	376.2	385.7	394.4	402.6	404.1
30°	1010.3	883.2	505.9	323.8	334.8	354.2	365.5	372.4	382.9	389.3	390.6
32.5°	1007.5	850.7	419.5	304.1	328.7	347.3	354.0	360.1	359.9	357.3	359.1
35°	1008.5	811.8	349.4	292.3	323.3	342.2	347.8	340.2	318.2	317.1	316.1
37.5°	1013.9	773.4	298.5	284.2	320.5	341.4	344.5	309.2	289.8	280.8	278.5
40°	1027.7	728.7	265.0	278.0	320.2	347.3	329.4	293.6	256.3	238.9	237.6
42.5°	1046.1	684.7	244.5	274.2	323.3	356.3	323.3	271.6	231.0	220.7	219.2
45°	1073.4	634.3	233.3	272.4	327.9	359.6	321.2	255.5	220.7	212.5	212.5
47.5°	1104.4	586.2	227.1	271.1	333.8	357.3	303.1	250.4	215.9	216.9	221.7
50°	1135.1	544.5	222.5	268.3	338.9	356.0	295.7	250.1	217.1	230.2	238.9
52.5°	1170.6	515.1	216.9	263.7	338.9	347.8	293.4	255.3	220.7	224.6	228.4
55°	1213.6	505.9	209.7	253.7	332.8	327.4	292.1	262.7	223.3	214.3	215.9
57.5°	1270.4	520.7	202.8	241.2	318.7	306.2	291.6	264.7	217.4	210.0	208.4
60°	1336.4	550.2	200.8	228.4	299.5	288.0	288.5	258.8	209.2	201.5	202.8
62.5°	1382.7	567.8	199.5	218.7	278.5	268.0	281.1	251.7	205.6	199.0	200.3
65°	1382.7	546.3	187.7	203.8	251.4	244.0	272.1	242.7	201.0	193.4	192.1
67.5°	1330.2	483.7	169.8	181.6	221.5	216.6	259.6	232.0	194.1	188.2	185.2
70°	1193.7	366.8	147.3	155.5	183.6	188.0	243.5	217.4	182.6	175.5	170.9
71°	1133.6	319.5	137.9	142.2	169.1	175.5	235.8	211.3	177.5	167.3	159.1
72.5°	1017.7	269.1	123.5	125.3	144.5	156.0	219.7	199.5	167.8	153.2	144.0
75°	773.2	196.4	99.5	98.5	106.9	123.8	185.9	177.8	147.1	127.4	122.0
77.5°	334.0	106.9	74.4	75.2	72.6	93.9	146.3	152.7	126.1	103.6	98.7
80°	101.3	61.6	50.9	51.9	48.6	62.9	103.1	119.7	101.3	80.6	73.9
82.5°	51.9	36.8	34.8	34.3	30.9	35.6	62.4	81.8	72.4	50.4	44.5
85°	22.5	19.7	17.1	16.6	14.6	12.8	22.3	40.9	38.4	28.1	26.9
87.5°	5.6	5.1	3.3	3.1	1.8	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)