

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: P648237

Luminaire Tested: **GALN-SA1B-835-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648237  
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-SA1B-835-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4613.4 lumens  
Efficiency: N/A  
Efficacy: 104.9 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

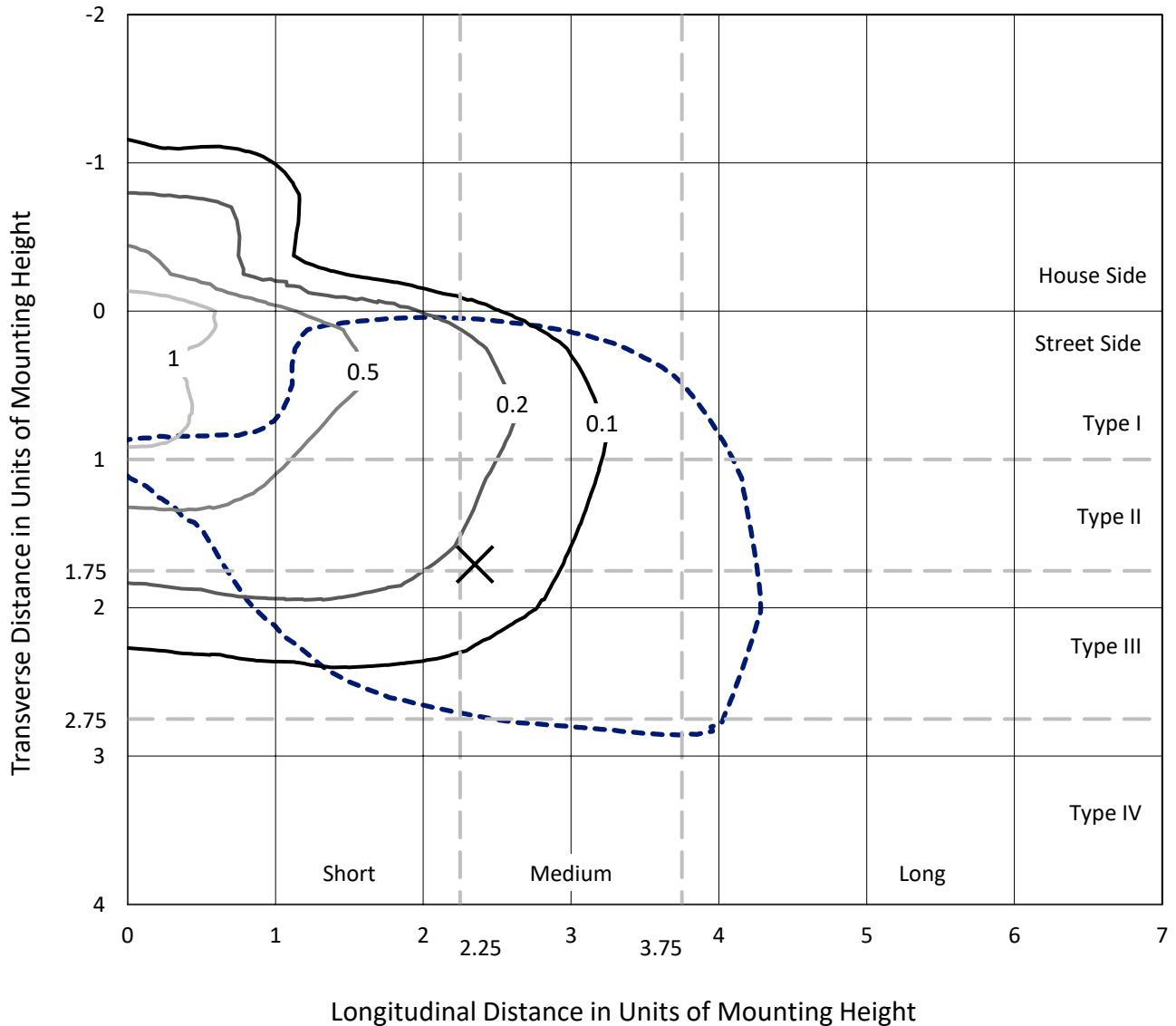
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

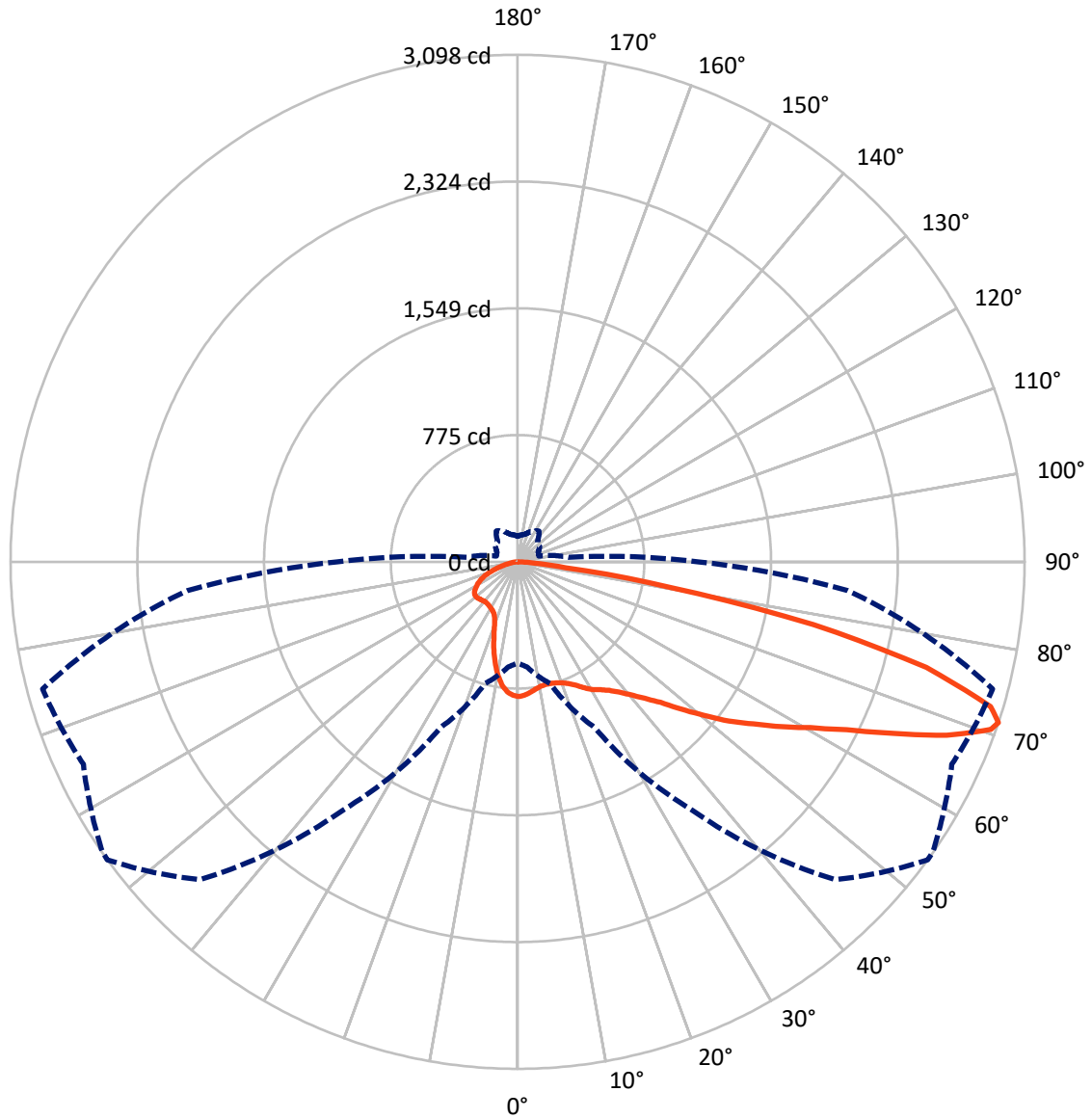
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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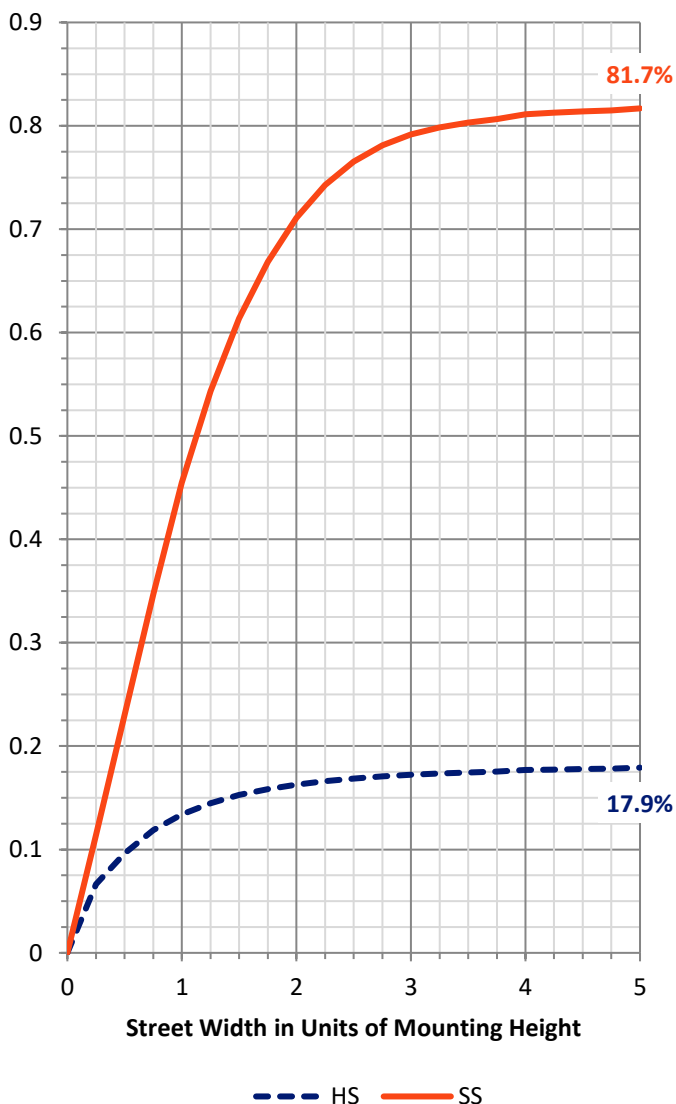
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	832.9	0.0	832.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	3780.5	0.0	3780.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	4613.4	0.0	4613.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	1.6
10°-20°	193.7	4.2
20°-30°	322.5	7.0
30°-40°	476.9	10.3
40°-50°	671.7	14.6
50°-60°	899.4	19.5
60°-70°	1133.6	24.6
70°-80°	774.3	16.8
80°-90°	68.1	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°	4613.4	100.0
0°-180°	4613.4	100.0

**Coefficient of Utilization**

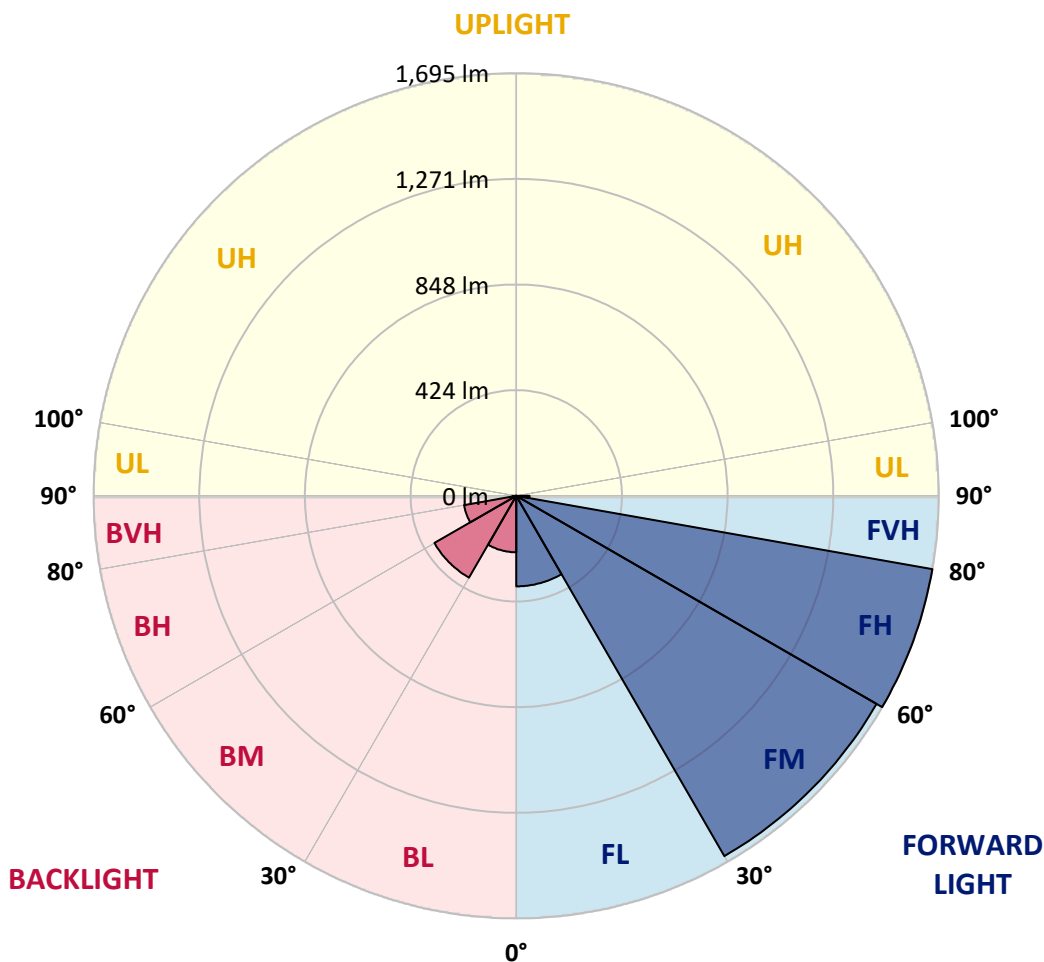


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.2	7.9			
FM (30°-60°)	1669.0	36.2			
FH (60°-80°)	1695.2	36.7			G1/1800
FVH (80°-90°)	53.2	1.2			G1/100
BL (0°-30°)	226.4	4.9	B1/500		
BM (30°-60°)	379.0	8.2	B1/1000		
BH (60°-80°)	212.7	4.6	B1/500		G1/500
BVH (80°-90°)	14.9	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°	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1
2.5°	795.2	798.9	799.9	802.4	807.7	811.9	816.1	815.7	821.6	824.1	826.4
5°	759.8	760.8	764.5	769.5	778.8	790.4	801.9	802.2	816.9	828.6	834.3
7.5°	733.9	737.1	739.6	744.9	754.6	767.3	785.5	787.0	813.1	836.3	848.5
10°	716.9	720.7	723.4	729.9	739.6	753.8	773.5	776.3	810.4	848.5	870.0
12.5°	701.5	705.2	707.8	716.2	728.9	746.4	768.5	771.8	811.4	862.7	893.4
15°	711.0	713.9	712.9	715.4	724.0	743.8	770.6	773.8	815.1	876.4	916.6
17.5°	753.1	755.6	747.4	737.9	733.9	748.6	776.7	780.3	822.6	890.7	940.2
20°	815.1	821.8	803.9	782.8	763.6	765.5	789.7	793.4	833.1	904.8	964.4
22.5°	895.9	900.8	878.9	844.1	808.7	790.4	809.2	811.4	848.8	923.3	990.8
25°	990.8	993.8	963.4	918.5	867.5	833.1	835.9	839.8	874.7	944.2	1014.2
27.5°	1083.0	1092.5	1057.4	1002.6	935.2	877.9	872.4	874.9	902.9	956.0	1030.4
30°	1192.4	1191.6	1154.5	1091.0	1004.7	926.8	907.1	906.6	918.1	961.7	1042.2
32.5°	1279.7	1289.8	1253.5	1184.2	1084.3	977.3	931.0	930.0	929.7	971.6	1059.6
35°	1378.8	1380.4	1346.9	1277.2	1170.3	1040.9	964.4	959.4	953.7	993.1	1083.3
37.5°	1467.5	1474.5	1443.9	1365.6	1254.8	1106.9	1010.2	1007.0	989.6	1030.2	1121.2
40°	1536.8	1542.0	1523.6	1449.1	1337.9	1178.2	1068.6	1062.6	1041.4	1091.0	1171.8
42.5°	1559.5	1570.2	1577.4	1540.8	1433.7	1262.7	1140.4	1132.8	1116.6	1183.2	1230.0
45°	1561.2	1578.2	1616.3	1618.1	1529.8	1363.8	1224.1	1218.8	1217.6	1301.3	1312.1
47.5°	1548.0	1565.2	1629.3	1663.9	1615.6	1466.0	1345.0	1336.7	1337.4	1447.4	1404.0
50°	1516.1	1536.6	1614.3	1693.3	1682.6	1572.2	1472.5	1469.8	1485.2	1614.1	1499.4
52.5°	1456.1	1480.7	1598.9	1711.7	1732.5	1663.6	1617.5	1609.8	1648.9	1794.9	1603.8
55°	1289.8	1327.0	1542.3	1722.0	1779.8	1751.1	1748.1	1762.1	1813.9	1992.3	1718.8
57.5°	1203.2	1231.0	1419.4	1723.7	1839.6	1852.8	1900.7	1904.1	1994.8	2202.0	1848.6
60°	1155.8	1180.5	1352.2	1712.3	1923.0	1978.6	2056.6	2069.1	2171.5	2428.9	1983.1
62.5°	1114.4	1135.6	1311.8	1672.6	2017.2	2165.3	2258.7	2264.7	2372.1	2679.7	2116.0
65°	1017.0	1041.2	1230.6	1633.0	2098.5	2398.6	2526.9	2519.9	2585.7	2895.9	2199.2
67.5°	885.7	916.3	1078.8	1496.2	2138.6	2653.5	2828.9	2820.2	2796.5	3037.7	2223.1
70°	717.9	734.4	884.6	1259.7	1978.4	2787.3	3067.4	3058.2	2927.1	3056.4	2110.0
71°	617.8	643.5	770.2	1118.9	1845.1	2746.5	3098.0	3095.6	2927.3	3004.8	2024.8
72.5°	482.2	497.9	610.0	866.9	1568.2	2514.1	3022.3	3031.8	2863.8	2861.6	1849.1
75°	305.1	312.0	382.8	510.4	860.5	1780.5	2580.0	2605.6	2542.8	2342.2	1375.1
77.5°	177.2	186.1	229.3	300.8	371.8	966.4	1846.1	1874.0	1766.8	1289.6	563.0
80°	103.2	113.1	151.0	174.7	170.7	358.6	940.0	987.6	765.1	325.7	158.0
82.5°	57.3	64.0	106.2	106.4	91.0	117.1	295.8	309.5	218.3	131.3	64.5
85°	41.6	47.1	68.5	62.0	43.6	50.3	102.9	107.9	88.2	55.4	20.9
87.5°	14.7	20.9	37.7	29.9	12.0	10.5	29.7	24.2	22.4	15.4	4.7
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°	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1
2.5°	827.6	828.1	825.6	821.1	816.6	810.9	804.5	799.4	797.2	796.9	796.7
5°	836.6	837.8	828.3	814.4	798.9	780.0	763.8	745.3	740.6	733.1	735.4
7.5°	851.0	850.3	831.5	801.9	765.8	725.7	691.8	672.1	651.7	645.9	646.2
10°	871.7	866.9	831.5	776.5	716.2	656.6	609.3	579.4	563.2	549.7	544.7
12.5°	893.6	881.7	823.6	740.9	652.4	579.4	528.5	488.2	477.7	466.7	467.0
15°	914.5	894.7	807.9	690.8	583.6	496.9	447.6	423.4	420.2	421.4	421.2
17.5°	933.5	903.8	784.0	634.9	503.4	426.1	400.0	401.7	410.4	416.6	417.4
20°	952.7	909.3	748.3	560.2	427.6	383.3	384.3	398.0	411.2	419.7	420.9
22.5°	970.8	911.8	706.5	488.0	372.8	365.1	379.8	394.5	407.5	415.7	416.9
25°	982.8	906.1	647.1	412.4	345.9	358.6	374.0	386.5	397.5	405.9	407.9
27.5°	986.1	887.6	573.6	351.3	333.4	352.4	366.6	375.8	384.3	392.2	393.8
30°	984.3	860.5	492.9	315.5	326.2	345.1	356.1	362.8	373.0	379.3	380.5
32.5°	981.6	828.8	408.7	296.3	320.2	338.4	344.9	350.9	350.6	348.1	349.8
35°	982.6	791.0	340.4	284.9	315.0	333.4	338.9	331.4	310.0	309.0	308.0
37.5°	987.8	753.6	290.8	276.9	312.3	332.7	335.7	301.3	282.3	273.7	271.4
40°	1001.3	709.9	258.2	270.9	312.0	338.4	321.0	286.1	249.7	232.8	231.5
42.5°	1019.2	667.1	238.3	267.2	315.0	347.1	315.0	264.7	225.0	215.1	213.6
45°	1045.9	618.0	227.3	265.4	319.5	350.4	313.0	248.9	215.1	207.1	207.1
47.5°	1076.1	571.2	221.3	264.2	325.2	348.1	295.3	244.0	210.3	211.3	216.0
50°	1105.9	530.6	216.8	261.4	330.2	346.9	288.1	243.7	211.6	224.3	232.8
52.5°	1140.6	501.9	211.3	256.9	330.2	338.9	285.8	248.7	215.1	218.8	222.5
55°	1182.5	492.9	204.4	247.2	324.2	319.0	284.6	256.0	217.5	208.8	210.3
57.5°	1237.8	507.4	197.6	235.0	310.5	298.3	284.1	257.9	211.8	204.6	203.1
60°	1302.1	536.0	195.6	222.5	291.8	280.6	281.1	252.2	203.8	196.4	197.6
62.5°	1347.2	553.2	194.3	213.1	271.4	261.1	273.9	245.2	200.4	193.9	195.1
65°	1347.2	532.3	182.9	198.6	245.0	237.7	265.1	236.5	195.9	188.4	187.1
67.5°	1296.1	471.2	165.4	177.0	215.8	211.1	252.9	226.1	189.2	183.4	180.4
70°	1163.0	357.4	143.5	151.5	178.9	183.1	237.2	211.8	177.9	170.9	166.5
71°	1104.4	311.2	134.3	138.6	164.7	170.9	229.7	205.9	173.0	162.9	155.0
72.5°	991.6	262.1	120.3	122.1	140.8	152.0	214.1	194.3	163.5	149.2	140.3
75°	753.3	191.4	96.9	95.9	104.1	120.6	181.2	173.2	143.3	124.1	118.9
77.5°	325.5	104.1	72.5	73.3	70.8	91.5	142.5	148.8	122.9	100.9	96.2
80°	98.7	60.1	49.6	50.6	47.4	61.3	100.5	116.6	98.7	78.5	72.0
82.5°	50.6	35.9	33.9	33.4	30.1	34.6	60.8	79.7	70.5	49.1	43.4
85°	21.9	19.2	16.7	16.2	14.2	12.4	21.7	39.9	37.3	27.4	26.2
87.5°	5.5	5.0	3.2	3.0	1.7	0.2	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)