

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: P458772

Luminaire Tested: **GALN-SA3A-735-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9200 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

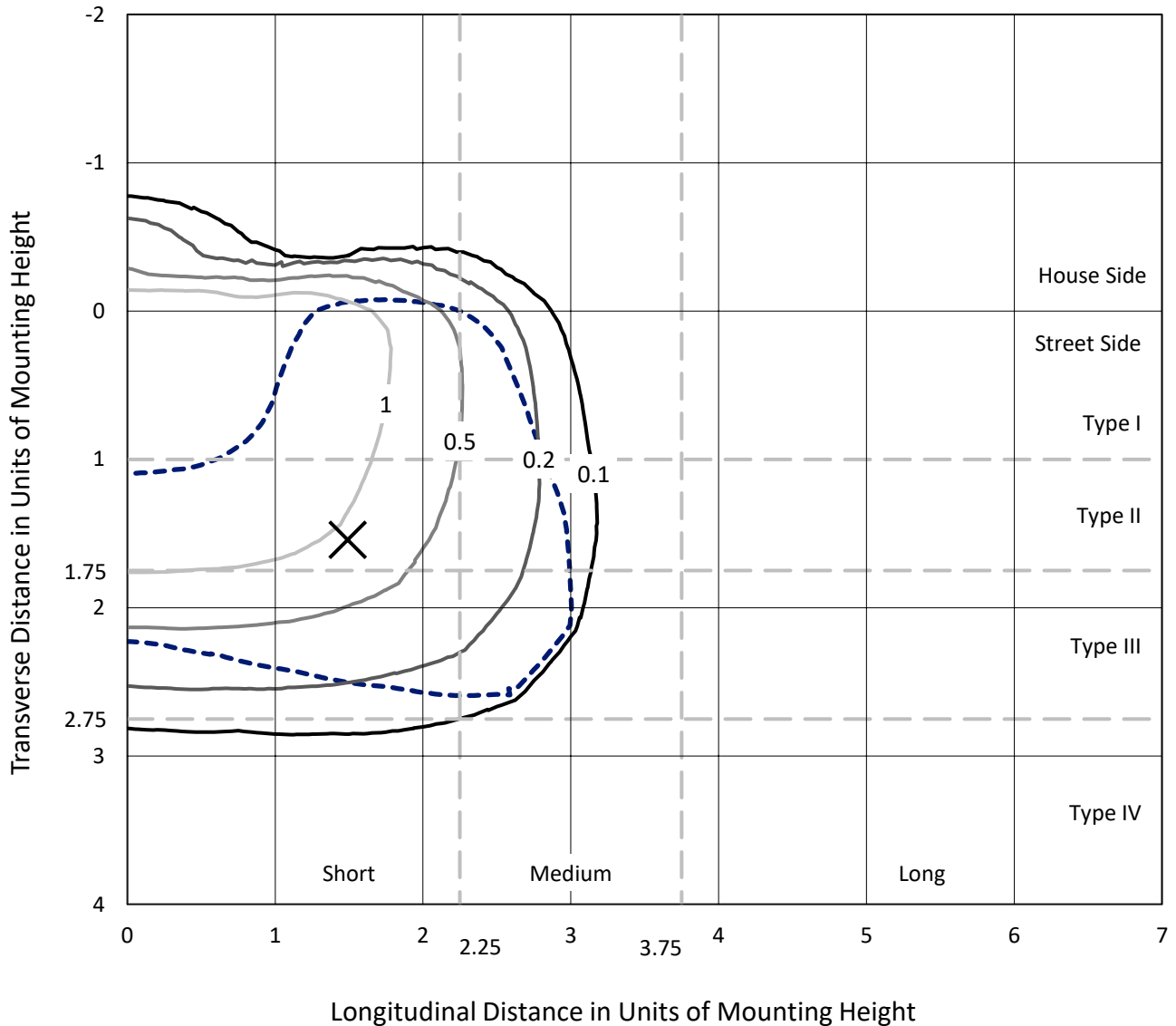
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

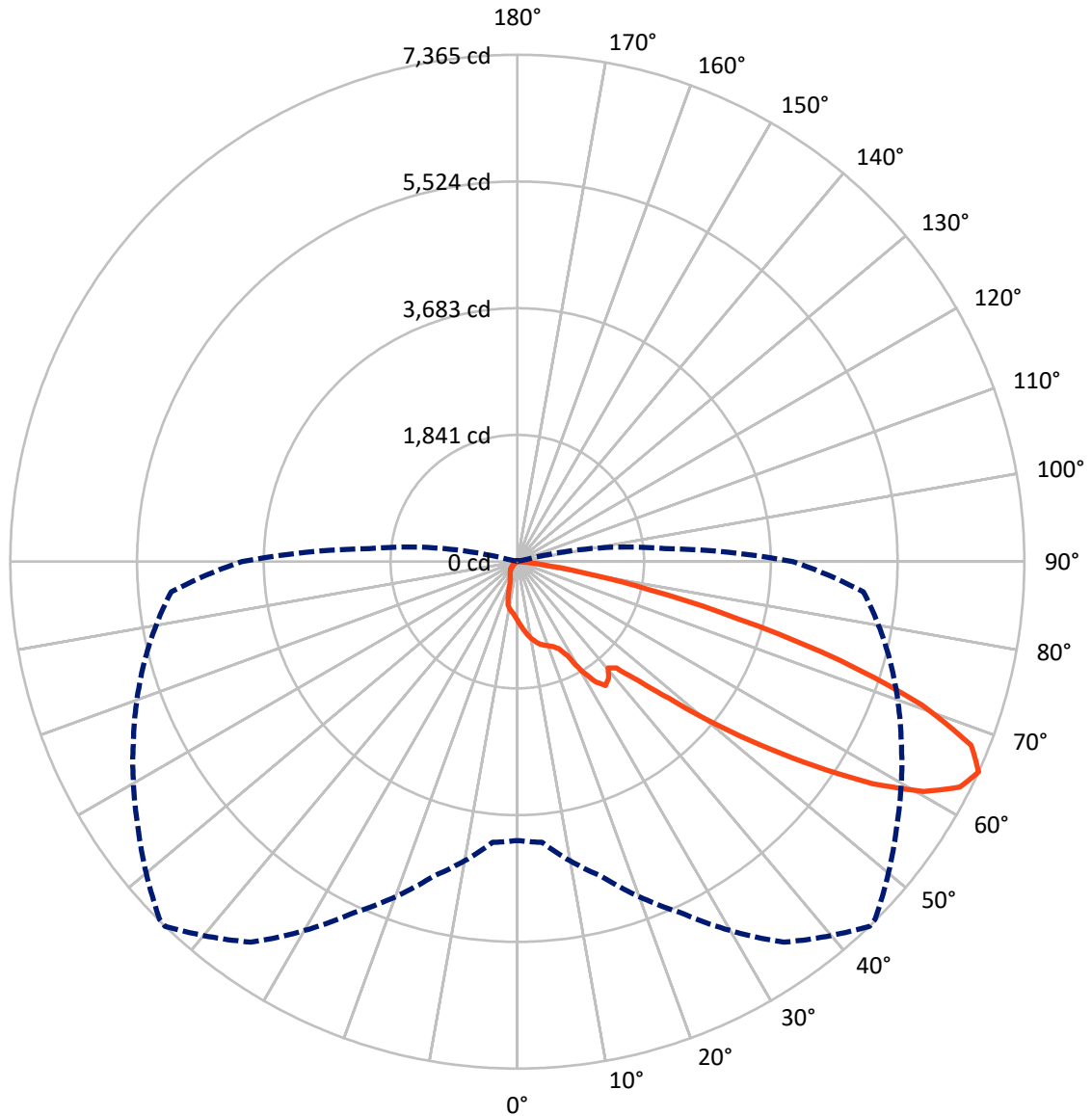
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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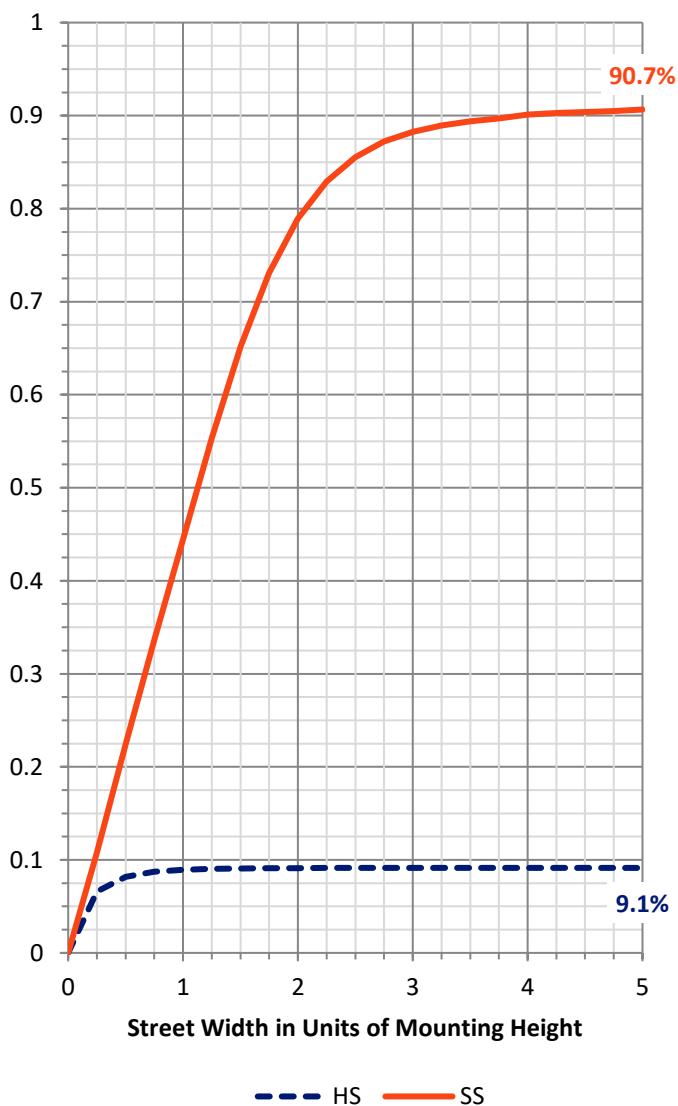
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	847.6	0.0	847.6
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	8352.4	0.0	8352.4
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	9200.0	0.0	9200.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.2	0.9
10°-20°	256.3	2.8
20°-30°	434.6	4.7
30°-40°	722.6	7.9
40°-50°	1261.7	13.7
50°-60°	2464.9	26.8
60°-70°	2859.9	31.1
70°-80°	1041.4	11.3
80°-90°	73.4	0.8
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°	9200.0	100.0
0°-180°	9200.0	100.0

**Coefficient of Utilization**



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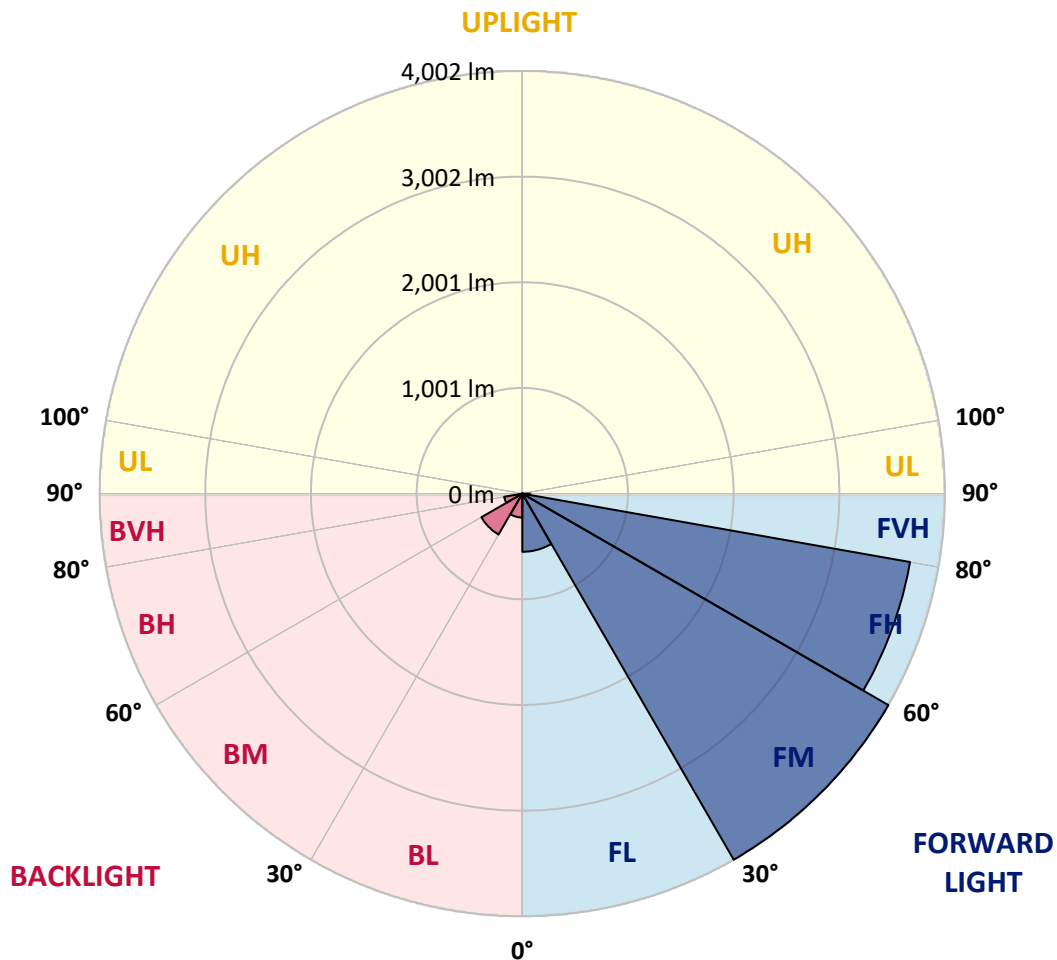
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	550.2	6.0			
FM (30°-60°)	4002.0	43.5			
FH (60°-80°)	3727.7	40.5			G2/5000
FVH (80°-90°)	72.4	0.8			G1/100
BL (0°-30°)	225.8	2.5	B1/500		
BM (30°-60°)	447.2	4.9	B1/1000		
BH (60°-80°)	173.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	856.2	856.2	856.2	856.2	856.2	856.2	856.2	856.2	856.2	856.2	856.2
2.5°	963.8	959.6	957.5	946.2	937.8	927.2	927.2	913.9	898.4	881.6	866.1
5°	1071.4	1064.3	1055.2	1045.4	1025.7	997.5	997.5	969.4	937.1	908.3	876.6
7.5°	1174.7	1168.4	1152.9	1133.9	1101.6	1072.1	1070.0	1029.2	990.5	946.9	901.9
10°	1265.4	1260.5	1247.1	1210.6	1176.8	1138.1	1137.4	1091.7	1046.8	993.3	937.8
12.5°	1328.7	1329.4	1311.8	1276.6	1233.0	1196.5	1193.7	1148.7	1101.6	1043.9	975.8
15°	1373.6	1373.6	1355.4	1316.0	1276.6	1244.3	1241.5	1202.1	1153.6	1091.0	1017.2
17.5°	1386.3	1390.5	1370.8	1335.7	1304.1	1275.9	1275.2	1242.2	1203.5	1143.1	1059.4
20°	1381.4	1385.6	1370.1	1342.7	1320.9	1304.8	1302.6	1289.3	1253.4	1196.5	1104.4
22.5°	1370.8	1375.1	1363.8	1347.6	1337.1	1342.0	1338.5	1349.7	1330.8	1261.9	1157.8
25°	1372.9	1377.2	1368.7	1359.6	1368.7	1399.0	1408.1	1456.6	1439.7	1344.8	1215.5
27.5°	1439.0	1447.5	1435.5	1439.7	1472.1	1542.4	1559.9	1643.6	1569.1	1450.3	1305.5
30°	1586.0	1580.3	1557.8	1578.2	1690.7	1839.7	1834.8	1821.5	1704.8	1571.9	1412.3
32.5°	1719.5	1714.6	1713.2	1801.1	2004.9	2077.3	2073.8	1944.5	1826.4	1711.1	1517.8
35°	1773.7	1754.7	1750.5	1963.5	2304.4	2208.8	2187.0	1995.1	1974.0	1862.9	1625.3
37.5°	1936.7	1923.4	1858.0	1990.2	2184.9	2153.3	2136.4	2082.3	2131.5	1997.2	1746.9
40°	2272.8	2235.5	2176.5	2047.1	2015.5	2028.8	2045.7	2194.0	2317.8	2180.7	1909.3
42.5°	2690.4	2681.9	2572.3	2331.1	2094.2	2112.5	2134.3	2427.4	2585.6	2457.0	2174.4
45°	3191.6	3203.5	3045.4	2760.7	2449.9	2465.4	2497.0	2771.9	2948.4	2886.5	2591.2
47.5°	3647.1	3638.0	3584.6	3288.6	3001.8	2967.3	3018.7	3214.1	3450.3	3460.1	3108.6
50°	4105.5	4154.0	4074.5	3958.6	3745.5	3673.1	3654.2	3749.8	4109.7	4062.6	3730.1
52.5°	4764.2	4789.5	4640.5	4610.9	4659.4	4424.6	4405.7	4428.9	4750.8	4589.1	4195.5
55°	5178.2	5163.5	5107.9	5338.5	5530.4	5237.3	5213.4	5119.9	5283.0	4961.0	4643.3
57.5°	5309.0	5330.1	5459.4	5876.3	6330.5	6081.6	6038.0	5772.3	5666.8	5307.6	5055.2
60°	5250.7	5289.3	5568.4	6188.4	6818.3	6781.1	6743.8	6297.4	5942.4	5597.2	5344.2
62.5°	4835.2	4889.3	5335.7	6132.9	6983.5	7216.2	7169.8	6625.0	6125.9	5737.8	5394.8
65°	4052.1	4092.1	4733.3	5628.9	6748.7	7365.3	7348.4	6727.6	6154.7	5609.2	5048.2
67.5°	2888.6	3025.0	3619.0	4743.8	6054.2	7110.8	7139.6	6604.6	5884.1	5053.1	4180.7
70°	1815.8	1908.6	2334.6	3396.2	4853.5	6238.4	6333.3	6041.5	5106.5	3938.9	2798.6
72.5°	866.1	935.0	1238.7	2149.8	3425.7	4908.3	4983.5	4959.6	3948.7	2481.6	1443.9
75°	385.9	412.0	591.2	1097.4	2211.6	3299.1	3493.9	3526.2	2467.5	1214.1	561.7
77.5°	196.8	197.5	277.0	531.5	1104.4	1968.4	2007.0	2120.2	1337.8	535.0	195.4
80°	104.7	111.8	146.9	251.0	572.9	969.4	964.5	1060.1	593.3	262.2	65.4
82.5°	47.1	52.0	83.0	131.5	279.8	367.7	396.5	433.7	254.5	167.3	28.8
85°	14.1	16.9	40.8	66.1	101.2	106.2	118.8	153.3	144.1	118.8	14.8
87.5°	2.1	2.1	16.9	18.3	14.8	19.0	19.7	21.8	46.4	43.6	7.7
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°	856.2	856.2	856.2	856.2	856.2	856.2	856.2	856.2	856.2	856.2	856.2
2.5°	857.7	852.7	835.2	820.4	807.7	800.0	790.9	785.2	782.4	780.3	781.0
5°	861.2	849.2	819.0	795.1	776.8	757.1	743.8	736.0	732.5	726.9	726.9
7.5°	880.9	861.9	819.7	783.1	751.5	724.8	699.5	690.3	684.0	682.6	681.2
10°	909.0	885.1	827.4	776.8	731.8	695.3	659.4	627.8	603.2	588.4	586.3
12.5°	944.1	909.7	839.4	772.6	714.9	650.3	555.4	491.4	448.5	435.2	437.3
15°	976.5	939.2	851.3	769.1	684.0	539.2	431.6	358.5	336.7	334.6	335.3
17.5°	1015.1	970.8	865.4	764.2	599.0	412.0	320.6	300.9	305.1	312.1	311.4
20°	1055.2	1004.6	882.3	734.6	478.0	310.0	283.3	285.4	291.7	298.1	299.5
22.5°	1098.1	1043.2	901.9	663.6	364.9	269.9	268.5	271.4	277.7	284.7	286.1
25°	1157.1	1091.7	916.7	570.8	276.3	249.6	252.4	257.3	262.9	270.7	272.1
27.5°	1233.0	1157.1	924.4	449.9	239.0	231.3	232.0	239.0	246.0	253.1	253.1
30°	1331.5	1235.2	909.0	340.2	220.7	213.7	210.9	215.1	224.3	231.3	232.0
32.5°	1419.3	1309.0	868.2	260.1	207.4	197.5	190.5	191.2	194.7	198.9	199.7
35°	1507.2	1380.7	798.6	218.6	193.3	182.1	171.5	165.9	163.1	161.0	163.1
37.5°	1619.7	1470.0	705.8	198.9	181.4	167.3	152.5	140.6	130.8	124.4	125.8
40°	1764.5	1593.7	596.1	186.3	170.1	153.3	133.6	118.1	101.2	95.6	92.8
42.5°	2003.5	1781.4	480.8	175.7	158.9	138.5	113.9	92.8	77.3	71.7	73.1
45°	2381.0	2018.3	370.5	164.5	147.6	122.3	95.6	73.1	60.5	57.6	59.1
47.5°	2881.6	2324.8	285.4	151.8	133.6	104.7	75.2	57.6	49.9	49.2	48.5
50°	3352.6	2610.2	238.3	137.8	116.7	87.2	61.9	48.5	43.6	42.9	42.9
52.5°	3778.6	2814.8	194.0	121.6	98.4	71.7	52.0	42.9	38.7	36.6	36.6
55°	4157.5	2948.4	157.5	101.9	77.3	56.9	45.0	38.7	33.7	30.9	30.2
57.5°	4443.6	2964.5	118.1	81.5	57.6	44.3	38.7	33.7	28.1	24.6	23.2
60°	4565.9	2824.6	87.2	61.9	42.9	35.1	30.9	27.4	21.1	17.6	16.9
62.5°	4442.9	2552.6	64.7	47.1	33.0	26.0	21.8	20.4	14.8	10.5	9.8
65°	4002.1	2159.6	51.3	35.9	24.6	19.0	14.1	13.4	9.1	4.9	4.2
67.5°	3206.4	1691.4	40.8	26.7	17.6	12.7	9.1	8.4	4.9	1.4	1.4
70°	2085.1	1081.2	33.0	19.7	11.2	8.4	5.6	4.2	2.8	0.7	0.0
72.5°	1031.3	505.5	26.7	15.5	7.7	4.2	2.1	1.4	2.1	0.0	0.0
75°	400.0	180.0	19.7	10.5	4.2	2.1	1.4	0.0	0.7	0.0	0.0
77.5°	132.9	59.8	12.0	5.6	2.8	1.4	0.0	0.0	0.0	0.0	0.0
80°	49.2	23.2	6.3	3.5	1.4	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	19.7	9.1	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.8	5.6	2.8	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	4.2	2.8	2.1	1.4	0.7	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)