

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: P450444

Luminaire Tested: **GALN-SA1B-727-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450444  
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-SA1B-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4775 lumens  
Efficiency: N/A  
Efficacy: 108.5 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

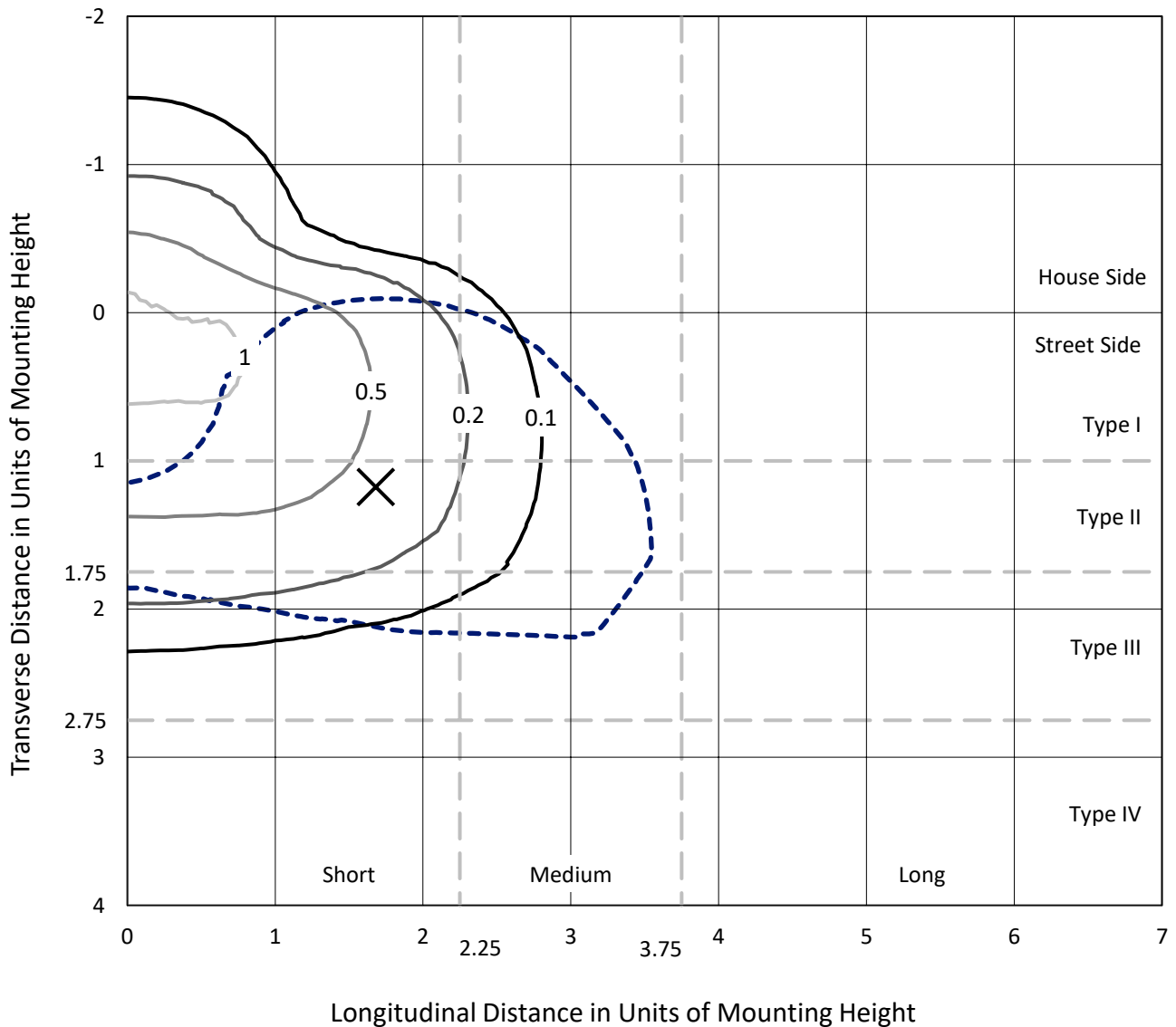
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

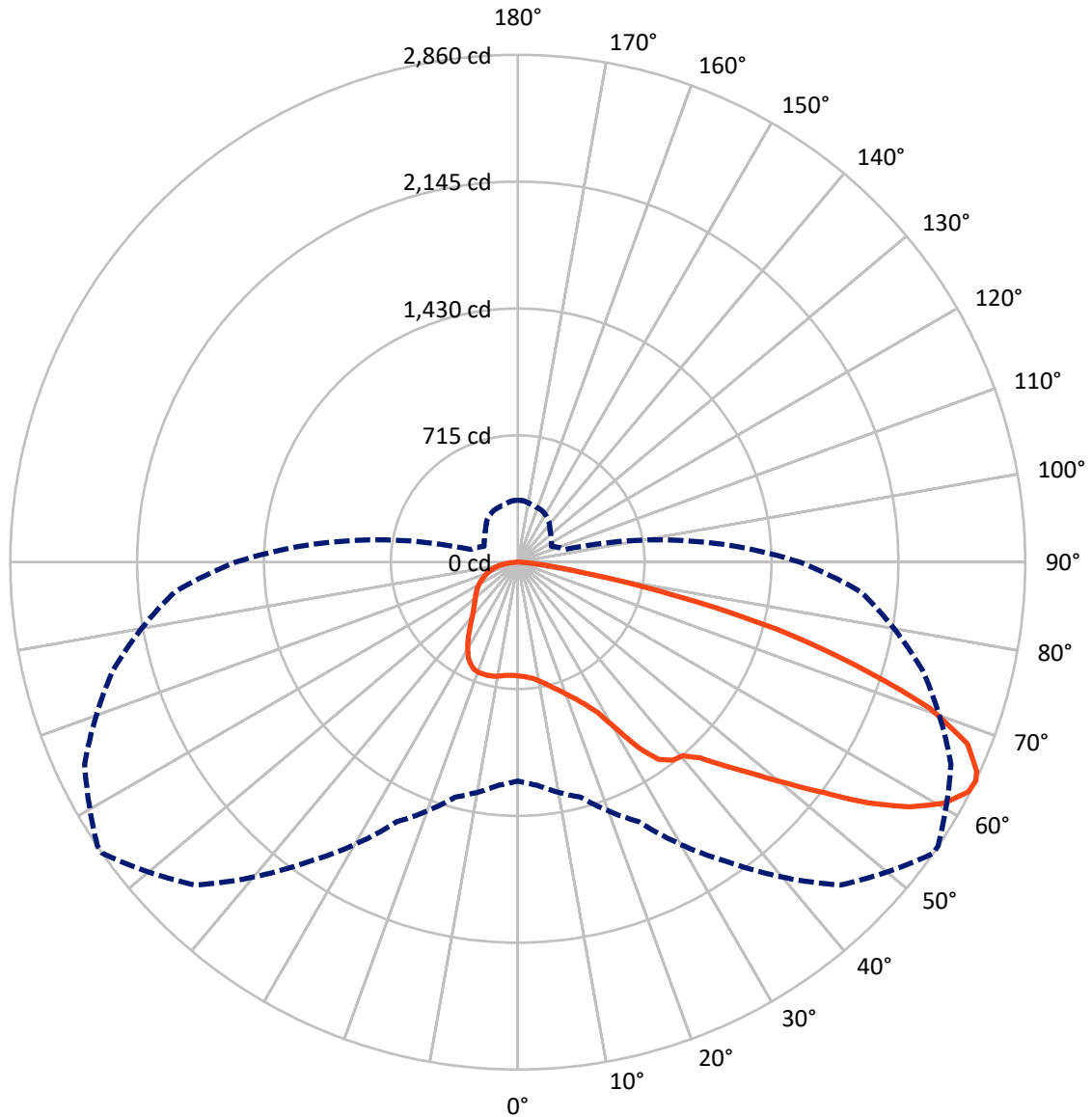
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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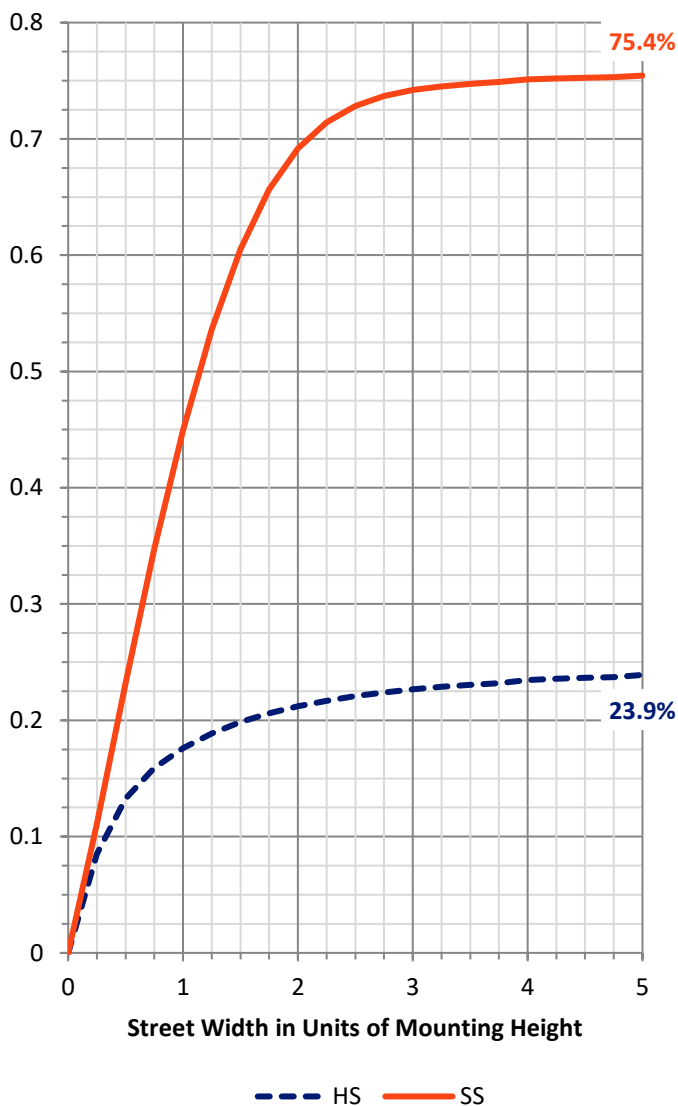
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1159.9	0.0	1159.9
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	3615.1	0.0	3615.1
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	4775.0	0.0	4775.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.3	1.3
10°-20°	196.6	4.1
20°-30°	350.1	7.3
30°-40°	538.6	11.3
40°-50°	763.5	16.0
50°-60°	1105.2	23.1
60°-70°	1143.7	24.0
70°-80°	535.6	11.2
80°-90°	79.3	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°	4775.0	100.0
0°-180°	4775.0	100.0

**Coefficient of Utilization**



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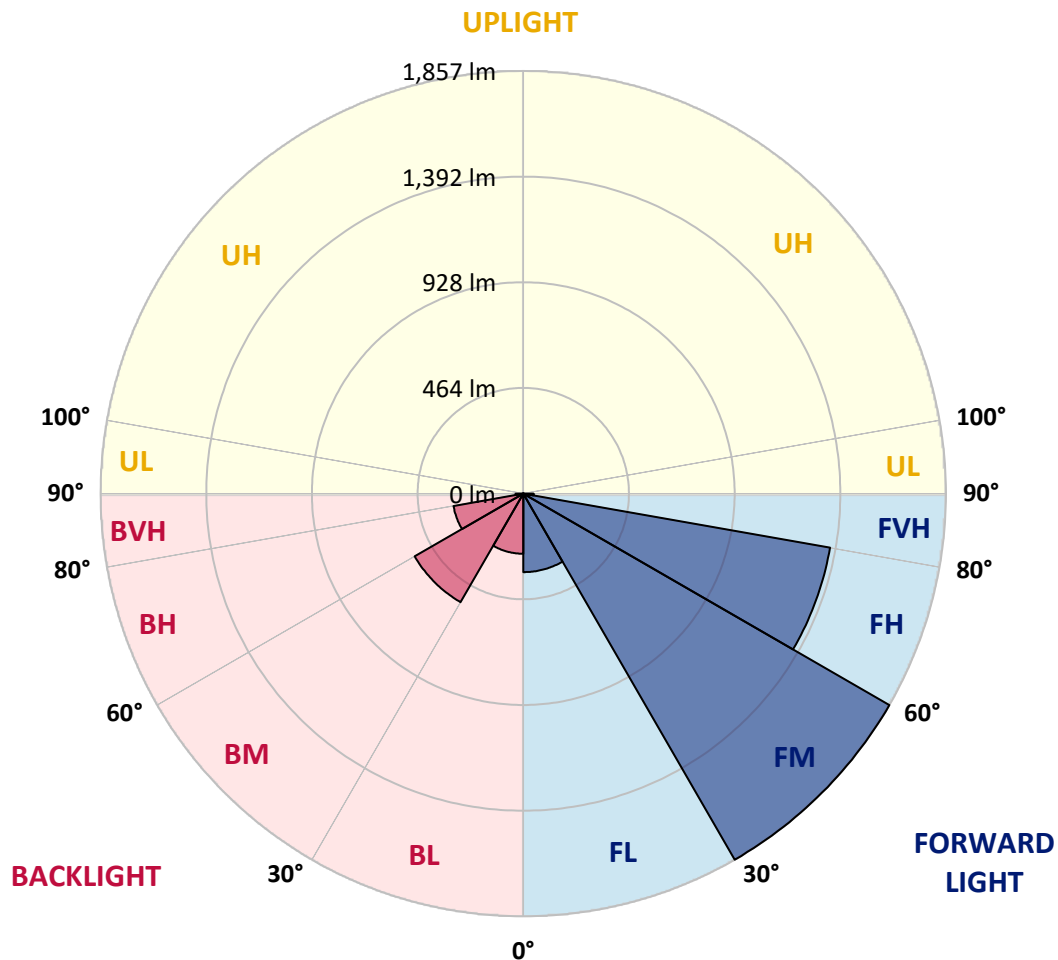
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	344.8	7.2			
FM (30°-60°)	1856.6	38.9			
FH (60°-80°)	1368.2	28.7			G1/1800
FVH (80°-90°)	45.4	1.0			G1/100
BL (0°-30°)	264.2	5.5	B1/500		
BM (30°-60°)	550.7	11.5	B1/1000		
BH (60°-80°)	311.2	6.5	B1/500		G1/500
BVH (80°-90°)	33.9	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°	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7
2.5°	647.8	647.6	648.4	647.6	648.1	646.3	645.5	646.0	645.2	643.9	641.5
5°	655.8	655.6	655.8	654.8	655.3	654.2	652.4	652.9	651.6	648.6	645.2
7.5°	669.4	668.3	668.3	668.1	667.0	665.4	664.1	663.6	662.2	658.5	653.2
10°	687.0	687.0	687.2	685.1	686.4	683.5	682.2	681.9	677.4	672.6	665.1
12.5°	710.1	711.5	710.7	709.6	709.1	708.0	703.5	704.5	699.5	691.2	682.2
15°	738.9	741.0	739.7	739.1	737.8	733.8	732.0	731.2	724.5	712.5	700.5
17.5°	776.9	774.3	773.2	771.9	766.3	763.4	760.2	759.6	753.8	739.7	721.0
20°	810.2	813.9	811.8	810.5	804.9	799.3	796.9	796.1	791.0	775.6	745.8
22.5°	849.9	850.7	851.5	848.3	845.6	841.3	837.1	835.8	833.9	817.9	781.5
25°	892.2	895.4	892.7	889.5	886.3	886.1	890.1	889.5	888.7	873.3	828.8
27.5°	961.1	964.1	964.9	961.4	949.1	950.2	959.3	962.2	974.4	948.9	889.8
30°	1000.0	1002.9	1009.6	1022.6	1042.0	1059.1	1080.9	1087.6	1099.3	1051.1	962.2
32.5°	1023.9	1025.0	1037.0	1061.2	1119.5	1183.1	1242.5	1244.9	1252.3	1184.7	1028.5
35°	1061.7	1062.5	1072.1	1098.7	1167.1	1273.1	1364.9	1367.8	1361.7	1226.2	1059.3
37.5°	1108.3	1110.4	1116.6	1138.7	1220.4	1348.4	1415.7	1413.6	1359.3	1259.2	1113.9
40°	1176.2	1176.2	1169.0	1198.8	1276.5	1391.5	1433.6	1429.8	1415.5	1354.8	1196.9
42.5°	1236.1	1235.0	1252.0	1272.3	1346.8	1458.1	1508.4	1514.5	1538.2	1474.8	1291.4
45°	1314.1	1318.9	1328.4	1365.2	1466.3	1571.7	1636.7	1642.5	1676.0	1616.2	1401.9
47.5°	1392.8	1394.4	1424.5	1473.5	1614.3	1725.8	1779.1	1788.6	1819.2	1781.4	1520.9
50°	1448.7	1463.9	1512.1	1589.3	1766.8	1913.7	1955.3	1966.7	2020.7	1961.4	1659.5
52.5°	1507.8	1522.7	1581.6	1699.2	1941.9	2105.9	2157.0	2164.7	2220.9	2143.4	1801.4
55°	1558.4	1572.2	1639.0	1796.6	2081.4	2302.1	2394.7	2385.6	2412.5	2283.7	1910.8
57.5°	1566.7	1577.8	1661.9	1858.9	2186.3	2470.3	2603.1	2608.4	2577.3	2388.6	2001.0
60°	1502.8	1525.7	1622.3	1852.2	2233.4	2587.4	2758.5	2762.3	2673.9	2442.3	2037.0
62.5°	1389.7	1387.3	1504.1	1745.2	2167.4	2614.0	2850.1	2846.1	2711.7	2416.5	2002.1
64°	1233.4	1262.2	1371.3	1613.8	2060.9	2573.0	2859.7	2857.6	2693.6	2362.8	1942.7
65°	1138.1	1136.5	1244.3	1506.2	1955.0	2511.3	2842.6	2839.7	2655.8	2314.6	1896.7
67.5°	821.7	825.4	931.8	1162.3	1589.3	2269.9	2731.7	2720.7	2506.7	2154.9	1721.6
70°	497.7	499.9	583.4	771.1	1140.8	1834.9	2462.3	2462.8	2278.6	1916.4	1465.2
72.5°	262.2	267.8	301.3	437.8	692.8	1287.4	1997.6	2045.0	1956.3	1635.6	1157.6
75°	145.9	146.7	170.3	215.9	353.5	720.5	1501.4	1515.0	1548.8	1316.5	856.0
77.5°	111.3	112.9	120.3	139.5	192.4	334.0	908.7	976.8	1091.5	928.1	488.4
80°	90.2	91.8	98.2	109.7	128.0	158.4	422.1	458.9	584.2	412.0	190.6
82.5°	70.3	69.2	77.5	84.9	93.2	93.7	173.3	191.6	238.0	177.3	82.5
85°	52.2	52.2	58.8	57.2	60.2	54.8	76.4	84.4	95.3	75.3	38.3
87.5°	20.8	22.9	38.6	34.6	26.9	21.6	28.2	29.8	33.0	29.5	16.0
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°	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7	640.7
2.5°	641.7	642.5	640.7	639.3	638.8	638.0	637.2	637.5	638.5	639.6	639.3
5°	644.9	645.2	642.0	640.4	639.3	638.3	638.3	639.1	641.2	642.8	642.8
7.5°	652.9	652.9	648.4	645.5	643.9	642.0	641.5	641.7	643.3	645.5	645.7
10°	665.4	664.3	658.5	654.0	651.0	646.5	642.5	640.4	641.2	642.5	642.5
12.5°	680.6	677.7	670.2	664.1	656.9	648.4	640.1	635.9	635.6	636.9	636.4
15°	696.8	693.6	683.2	672.1	659.6	647.0	637.2	631.1	626.3	625.0	627.9
17.5°	715.7	709.1	694.7	679.3	660.6	644.4	628.9	616.4	607.9	605.5	606.3
20°	738.6	729.8	710.4	686.2	659.8	634.8	610.9	594.1	580.2	576.0	576.5
22.5°	770.3	755.1	726.6	689.6	653.2	616.7	583.4	561.6	544.8	538.2	542.2
25°	806.2	789.7	742.1	688.8	635.9	587.7	551.0	522.5	507.3	497.5	499.6
27.5°	855.7	826.4	758.6	681.7	611.1	552.3	509.7	482.8	469.0	463.9	466.3
30°	919.1	874.1	776.4	662.2	572.0	507.6	468.2	450.6	442.4	436.0	438.1
32.5°	964.9	907.6	780.4	629.5	529.7	466.9	440.0	426.9	417.9	411.8	413.1
35°	997.6	936.1	778.5	589.3	485.5	433.3	417.6	407.0	392.3	379.0	376.6
37.5°	1041.5	971.8	765.0	545.4	441.8	410.7	399.5	379.8	358.8	341.0	340.2
40°	1108.8	1013.6	735.9	493.7	404.6	393.9	380.4	354.8	332.2	317.8	316.7
42.5°	1178.3	1052.2	696.6	439.4	374.0	376.4	359.9	334.6	320.7	311.4	310.3
45°	1263.2	1093.9	654.0	392.3	351.3	359.9	342.0	327.4	319.1	313.0	311.4
47.5°	1355.0	1136.8	606.1	350.0	332.2	344.7	334.6	327.9	323.4	319.1	317.3
50°	1454.1	1184.7	561.1	315.9	314.9	329.0	333.8	331.4	328.7	327.4	325.8
52.5°	1562.7	1233.7	523.3	292.0	299.7	317.8	334.0	335.9	335.9	335.1	334.0
55°	1636.1	1267.7	485.0	272.6	284.3	308.8	333.5	340.7	343.4	342.3	341.2
57.5°	1690.4	1286.4	436.8	255.8	271.2	300.0	330.6	341.2	343.9	345.2	344.7
60°	1701.6	1269.1	373.7	238.2	257.1	287.2	319.9	333.2	336.7	345.0	345.7
62.5°	1651.3	1215.8	310.9	220.9	239.8	267.8	305.6	324.2	331.1	343.9	345.2
64°	1589.5	1156.2	276.0	210.0	228.6	256.8	298.4	321.8	330.8	347.9	348.9
65°	1544.3	1112.8	254.2	203.1	221.4	249.7	294.4	322.6	333.2	354.0	355.6
67.5°	1377.7	963.5	210.3	186.8	204.4	237.4	295.2	329.2	332.7	356.4	356.1
70°	1140.0	767.1	176.2	171.9	187.9	227.6	292.0	318.6	318.9	334.6	330.8
72.5°	853.6	566.9	152.8	156.5	169.5	204.1	275.7	304.2	299.7	301.8	298.1
75°	586.4	375.0	131.5	140.0	150.4	180.5	252.9	276.3	269.1	266.4	263.8
77.5°	313.0	207.3	109.4	123.8	130.7	156.0	220.7	243.3	235.8	225.4	222.0
80°	126.7	97.7	88.1	102.5	106.5	125.6	183.7	197.8	192.2	174.1	168.2
82.5°	63.6	58.6	69.2	80.6	80.9	89.7	136.5	149.9	137.3	115.2	110.2
85°	33.3	34.3	47.6	56.7	50.0	48.4	82.0	90.8	83.3	72.4	65.2
87.5°	12.0	13.8	25.0	24.8	17.6	9.3	18.1	8.8	4.8	2.9	3.7
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)