

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: P646715

Luminaire Tested: **GALN-SA1C-835-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646715  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-835-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5624.3 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

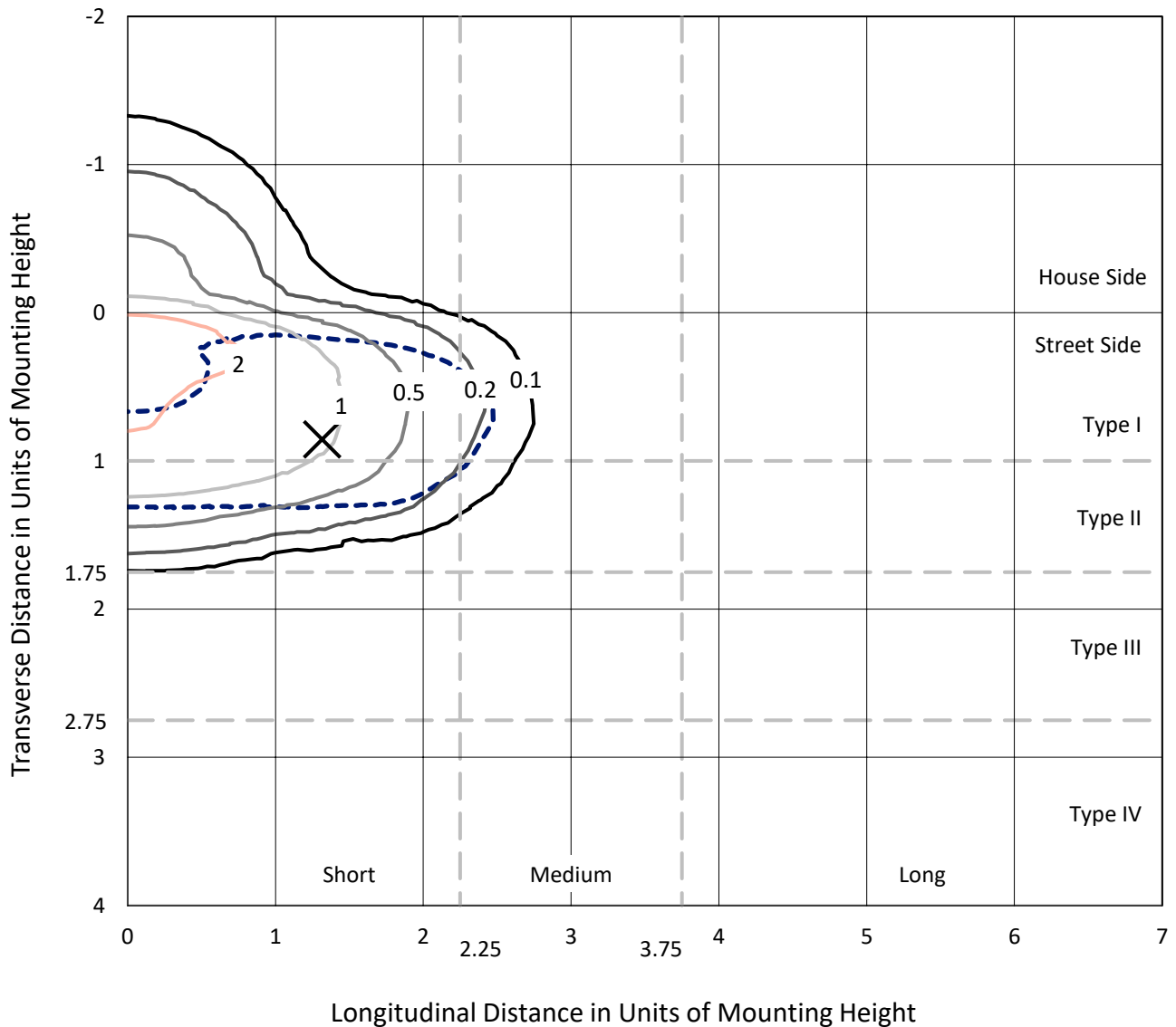
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

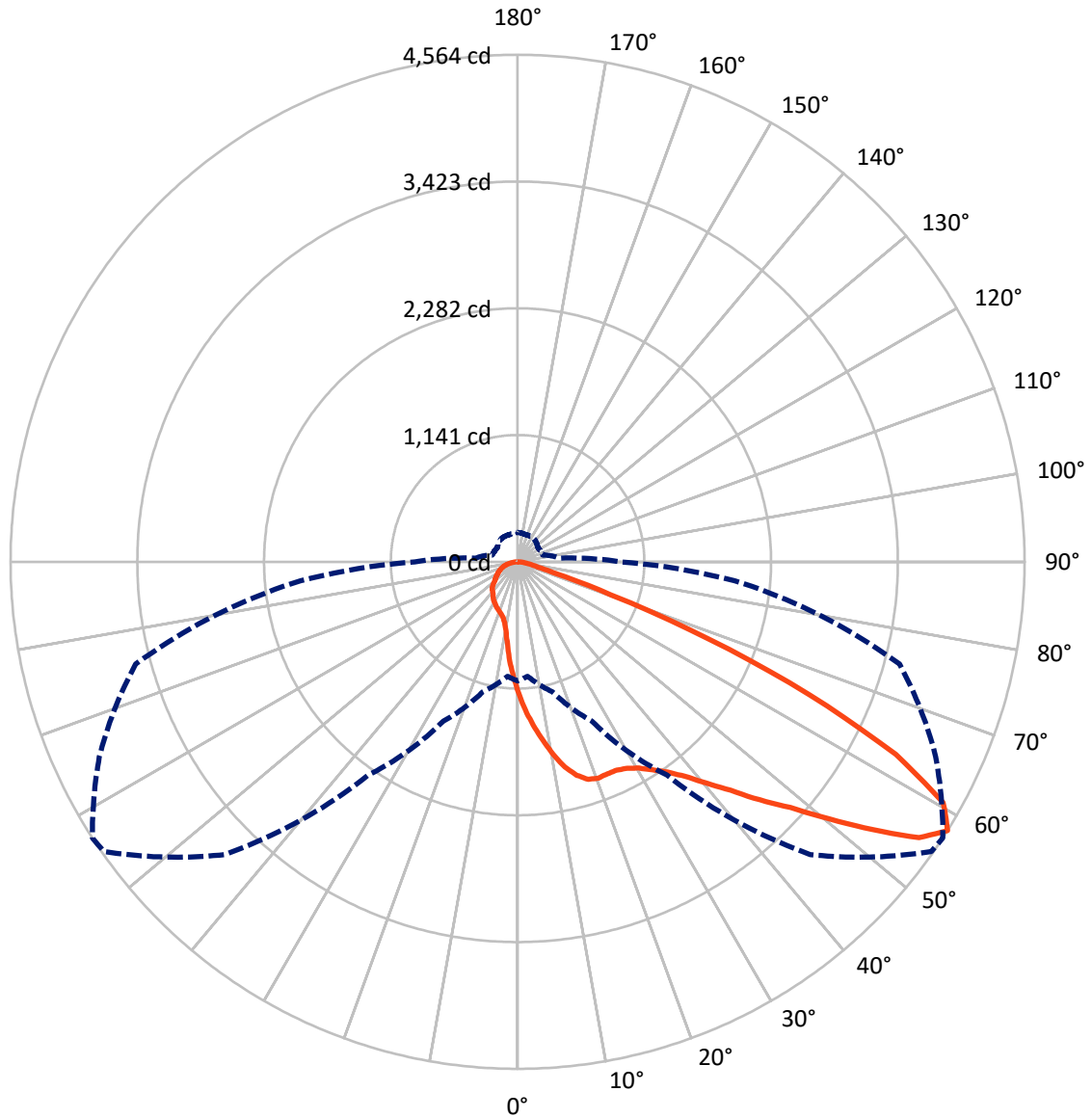
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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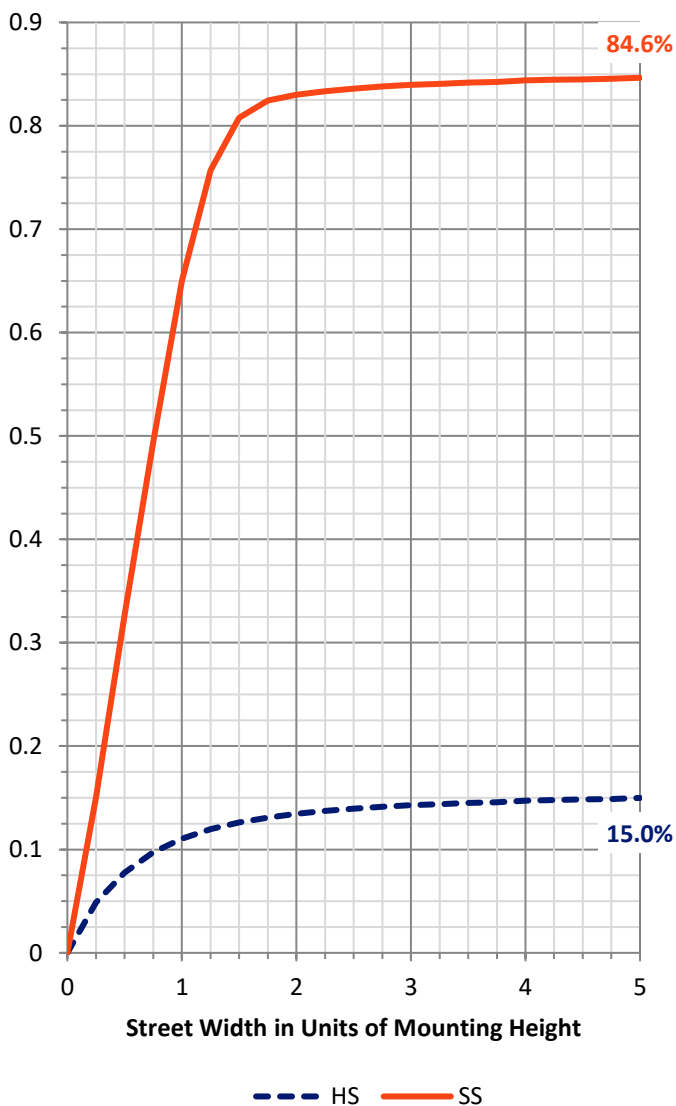
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	855.3	0.0	855.3
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	4769.0	0.0	4769.0
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	5624.3	0.0	5624.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.6	2.0
10°-20°	334.7	6.0
20°-30°	555.7	9.9
30°-40°	837.1	14.9
40°-50°	1256.8	22.3
50°-60°	1408.7	25.0
60°-70°	824.5	14.7
70°-80°	243.9	4.3
80°-90°	49.3	0.9
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°	5624.3	100.0
0°-180°	5624.3	100.0

**Coefficient of Utilization**



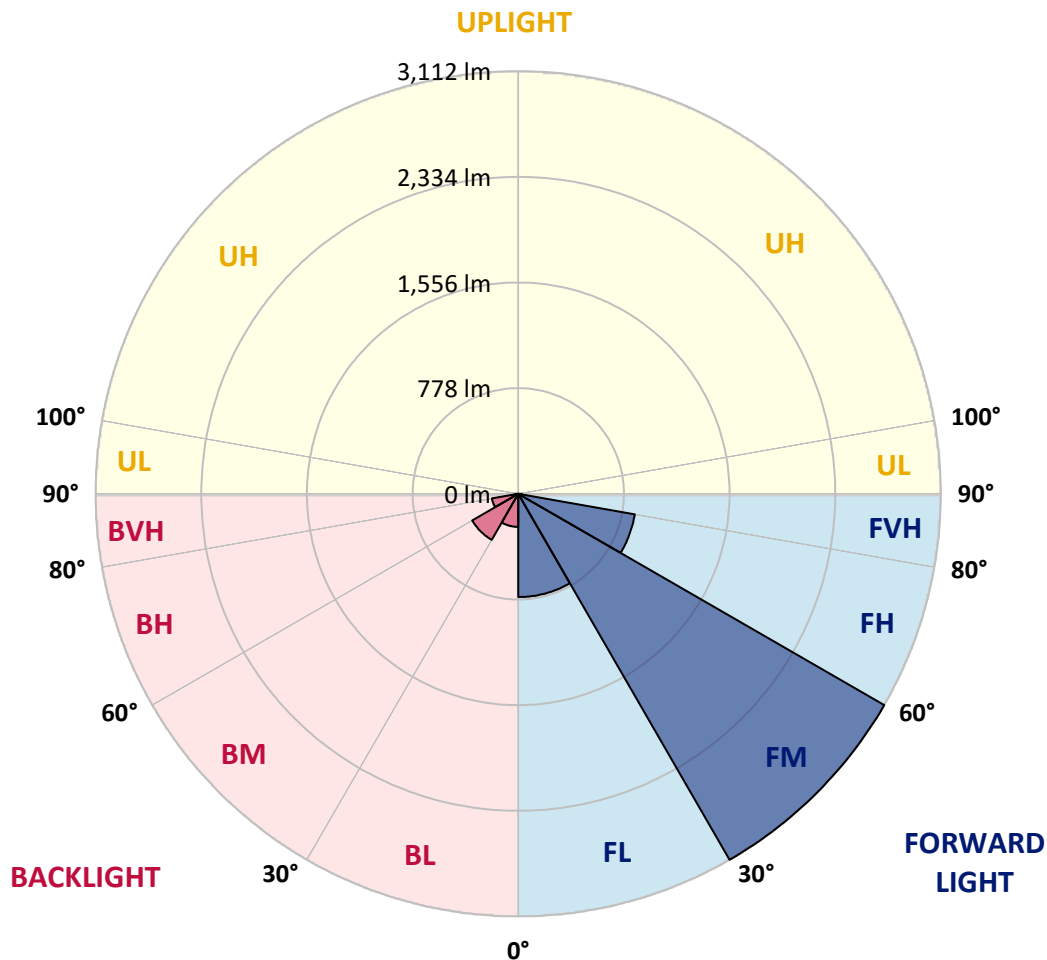
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.3	13.5			
FM (30°-60°)	3111.6	55.3			
FH (60°-80°)	871.5	15.5			G1/1800
FVH (80°-90°)	25.6	0.5			G1/100
BL (0°-30°)	243.7	4.3	B1/500		
BM (30°-60°)	391.1	7.0	B1/1000		
BH (60°-80°)	196.8	3.5	B1/500		G1/500
BVH (80°-90°)	23.7	0.4			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6
2.5°	1468.2	1452.2	1439.6	1428.5	1414.0	1374.9	1335.9	1335.2	1304.2	1256.1	1206.8
5°	1707.4	1685.9	1688.7	1654.2	1619.7	1563.0	1480.3	1476.0	1409.7	1319.8	1228.4
7.5°	1863.2	1863.5	1854.9	1835.2	1797.9	1733.6	1639.7	1618.5	1526.4	1390.1	1253.0
10°	1855.2	1863.5	1878.0	1894.9	1906.3	1874.6	1789.0	1763.2	1643.4	1475.0	1280.4
12.5°	1748.7	1761.6	1782.3	1824.7	1893.4	1945.8	1916.5	1895.6	1778.9	1559.7	1310.6
15°	1682.2	1689.9	1701.3	1729.9	1803.8	1929.1	2004.9	1993.8	1906.6	1655.4	1344.5
17.5°	1661.8	1669.6	1673.3	1690.8	1743.4	1871.8	2039.6	2059.4	2019.9	1743.4	1378.6
20°	1682.2	1685.9	1685.9	1696.4	1737.6	1838.2	2038.1	2077.8	2112.9	1849.1	1410.7
22.5°	1735.4	1737.0	1734.8	1738.5	1769.3	1847.5	2023.6	2072.9	2188.0	1938.6	1435.6
25°	1822.0	1824.4	1810.3	1801.7	1824.2	1888.1	2031.7	2076.9	2246.8	2024.2	1452.2
27.5°	1920.2	1923.3	1906.0	1886.0	1896.5	1938.3	2063.0	2103.7	2290.8	2108.6	1462.6
30°	2040.6	2041.8	2012.9	1988.8	1982.1	2013.2	2116.6	2154.4	2345.6	2208.1	1478.4
32.5°	2163.7	2172.9	2135.7	2101.8	2090.5	2100.0	2195.7	2232.3	2410.9	2314.9	1503.6
35°	2331.1	2332.7	2288.1	2246.8	2209.2	2221.6	2297.0	2323.5	2501.1	2438.3	1539.4
37.5°	2540.2	2554.4	2492.8	2415.9	2369.7	2351.8	2419.5	2448.4	2627.7	2589.8	1593.2
40°	2772.4	2777.6	2724.9	2676.9	2592.6	2540.8	2587.7	2619.1	2783.7	2770.5	1655.7
42.5°	2918.3	2929.7	2933.7	2928.7	2865.3	2778.5	2796.4	2811.1	2968.4	2940.2	1719.8
45°	2967.6	2984.5	3041.7	3163.0	3169.8	3084.2	3042.7	3056.8	3169.8	3111.3	1781.0
47.5°	2886.0	2914.9	3020.5	3269.3	3455.5	3462.0	3336.7	3305.6	3353.3	3253.2	1825.3
50°	2675.0	2681.2	2842.8	3203.1	3589.4	3823.1	3693.5	3635.6	3527.6	3358.2	1855.9
52.5°	2348.8	2355.8	2491.3	2895.5	3506.9	4075.6	4111.0	4007.6	3704.6	3439.8	1875.8
55°	1743.4	1784.4	1933.4	2324.1	3115.9	4051.9	4442.8	4384.0	3918.5	3504.5	1907.2
57.5°	1072.0	1034.4	1211.1	1581.2	2343.5	3726.1	4545.4	4564.4	4154.0	3558.7	1959.9
60°	493.2	500.6	573.5	815.6	1428.5	2914.9	4281.2	4401.9	4284.3	3556.8	1973.2
62.5°	339.9	333.1	314.6	358.1	651.5	1843.5	3616.2	3820.6	4023.2	3446.3	1920.5
65°	303.9	297.1	261.4	249.4	299.3	803.5	2628.9	2886.8	3387.5	3167.3	1789.3
67.5°	283.8	274.6	237.6	214.3	213.7	319.9	1550.1	1860.7	2512.5	2677.9	1550.4
70°	262.9	255.5	218.9	193.0	182.0	201.1	681.3	891.9	1631.4	1929.7	1207.8
72.5°	241.9	233.3	200.4	172.7	158.2	150.6	261.1	339.6	921.7	1157.0	740.4
75°	211.5	207.2	179.2	156.4	140.7	121.6	165.6	189.0	440.8	531.3	371.6
77.5°	185.0	180.4	159.2	136.7	125.3	98.8	117.6	128.4	186.0	215.5	167.8
80°	135.5	140.1	134.2	120.7	111.7	77.6	79.2	88.1	110.6	122.2	102.5
82.5°	85.9	94.5	103.4	92.9	84.6	61.2	54.8	58.2	75.4	80.0	45.6
85°	36.0	36.6	60.1	56.6	48.3	36.3	33.0	34.8	40.3	42.2	21.2
87.5°	13.9	13.5	21.2	19.7	15.1	10.5	10.5	11.7	16.0	14.8	6.8
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°	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6	1181.6
2.5°	1185.6	1163.8	1120.3	1066.4	1027.1	982.7	943.6	915.6	905.1	900.2	891.0
5°	1184.7	1141.6	1051.6	957.5	881.7	804.1	738.6	696.1	692.4	664.1	661.3
7.5°	1185.0	1119.1	975.9	837.4	721.9	642.5	588.3	574.2	557.3	553.0	555.1
10°	1185.9	1090.5	894.7	718.6	606.8	554.8	534.5	528.9	529.5	531.3	531.7
12.5°	1187.1	1062.8	810.3	628.4	542.1	520.6	518.4	523.4	528.6	532.6	533.5
15°	1188.7	1031.1	728.1	555.7	509.8	508.0	515.1	523.4	530.8	536.6	537.5
17.5°	1186.9	994.1	659.1	511.1	492.0	500.9	512.6	523.0	529.9	535.4	536.0
20°	1182.5	952.8	592.7	479.7	480.9	495.3	508.0	517.8	525.2	528.0	530.2
22.5°	1165.9	903.6	534.8	455.3	467.7	487.7	502.8	508.6	500.3	494.5	496.0
25°	1137.5	839.5	480.9	435.7	455.6	476.9	492.3	478.1	471.4	468.9	470.1
27.5°	1102.2	769.4	440.3	415.0	440.3	464.9	460.6	458.1	455.0	451.0	451.9
30°	1064.0	700.7	405.8	399.0	423.6	437.8	439.7	443.6	440.3	434.1	436.5
32.5°	1028.6	636.0	379.6	385.5	411.9	409.7	423.6	428.2	412.6	391.9	392.8
35°	998.4	576.1	359.9	372.2	391.9	392.8	406.7	390.7	373.7	363.9	364.5
37.5°	975.6	529.2	346.9	360.8	366.4	378.0	370.7	362.4	360.2	353.4	353.8
40°	962.1	488.3	338.6	351.9	350.9	359.0	335.3	343.6	346.6	344.5	344.8
42.5°	948.5	459.3	330.0	339.6	339.3	323.5	318.4	325.4	333.4	334.3	333.7
45°	937.8	436.8	321.1	320.8	327.0	302.3	300.8	305.1	316.5	322.0	321.7
47.5°	925.7	418.1	307.6	298.9	300.8	289.1	286.7	288.5	302.3	311.2	313.7
50°	910.7	399.3	290.6	278.9	271.2	276.8	277.4	277.7	291.6	301.7	303.9
52.5°	898.6	385.2	271.2	262.6	253.4	265.7	270.3	270.9	279.2	287.5	289.1
55°	905.8	377.2	252.1	246.0	237.6	254.3	263.2	264.5	266.3	272.5	273.4
57.5°	927.0	379.0	236.8	228.7	222.6	240.8	255.8	256.7	255.5	262.9	264.2
60°	933.5	378.0	225.3	209.7	205.9	226.3	245.1	246.9	246.6	257.4	259.6
62.5°	906.4	366.4	214.0	193.6	191.2	211.5	230.0	237.4	238.9	254.3	257.1
65°	842.7	342.3	198.9	176.7	176.7	195.8	215.5	225.7	230.0	250.6	253.7
67.5°	758.6	314.1	183.5	162.2	161.6	180.7	200.1	210.5	217.4	245.4	247.2
70°	629.6	275.9	164.4	146.6	146.6	163.8	181.3	193.9	203.8	235.5	235.5
72.5°	431.4	229.3	141.3	128.7	129.0	145.0	162.9	177.0	188.7	215.8	216.4
75°	272.8	179.2	116.0	109.6	110.8	125.9	144.4	159.2	182.6	213.4	214.3
77.5°	145.0	125.9	92.4	90.8	92.4	106.3	126.8	147.1	183.1	185.0	182.0
80°	93.9	89.3	73.0	69.9	70.5	85.6	113.0	139.8	147.1	149.0	142.3
82.5°	51.1	56.6	51.8	48.6	48.6	66.8	96.4	111.1	105.6	87.8	83.7
85°	21.8	26.5	26.8	23.4	22.5	41.3	64.7	60.7	56.4	53.9	53.2
87.5°	6.2	8.6	8.6	6.5	4.9	11.4	12.9	3.7	0.0	0.3	0.6
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)