

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: P450803

Luminaire Tested: **GALN-SA1C-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450803
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-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5281 lumens
Efficiency: N/A
Efficacy: 92.6 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

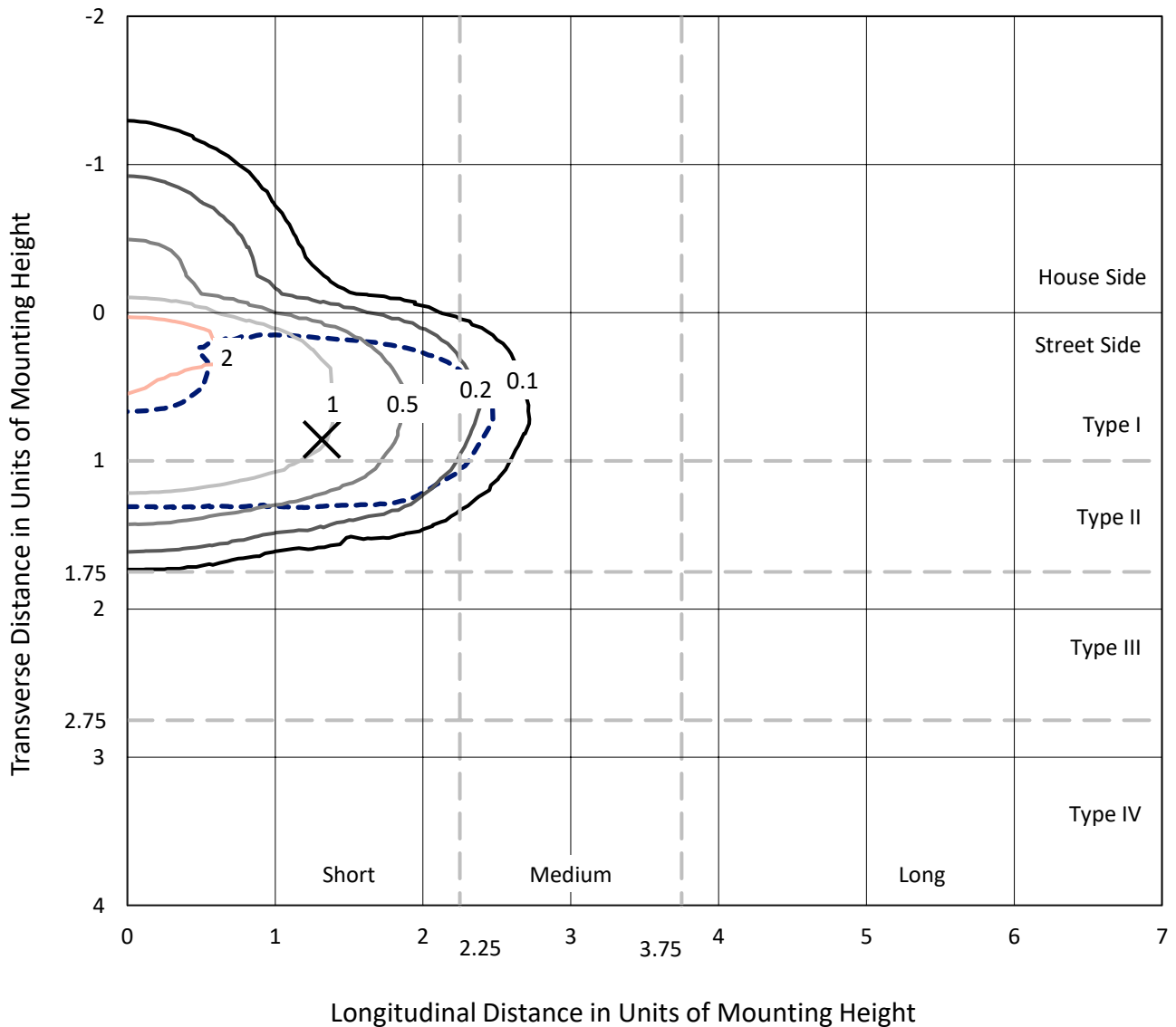
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

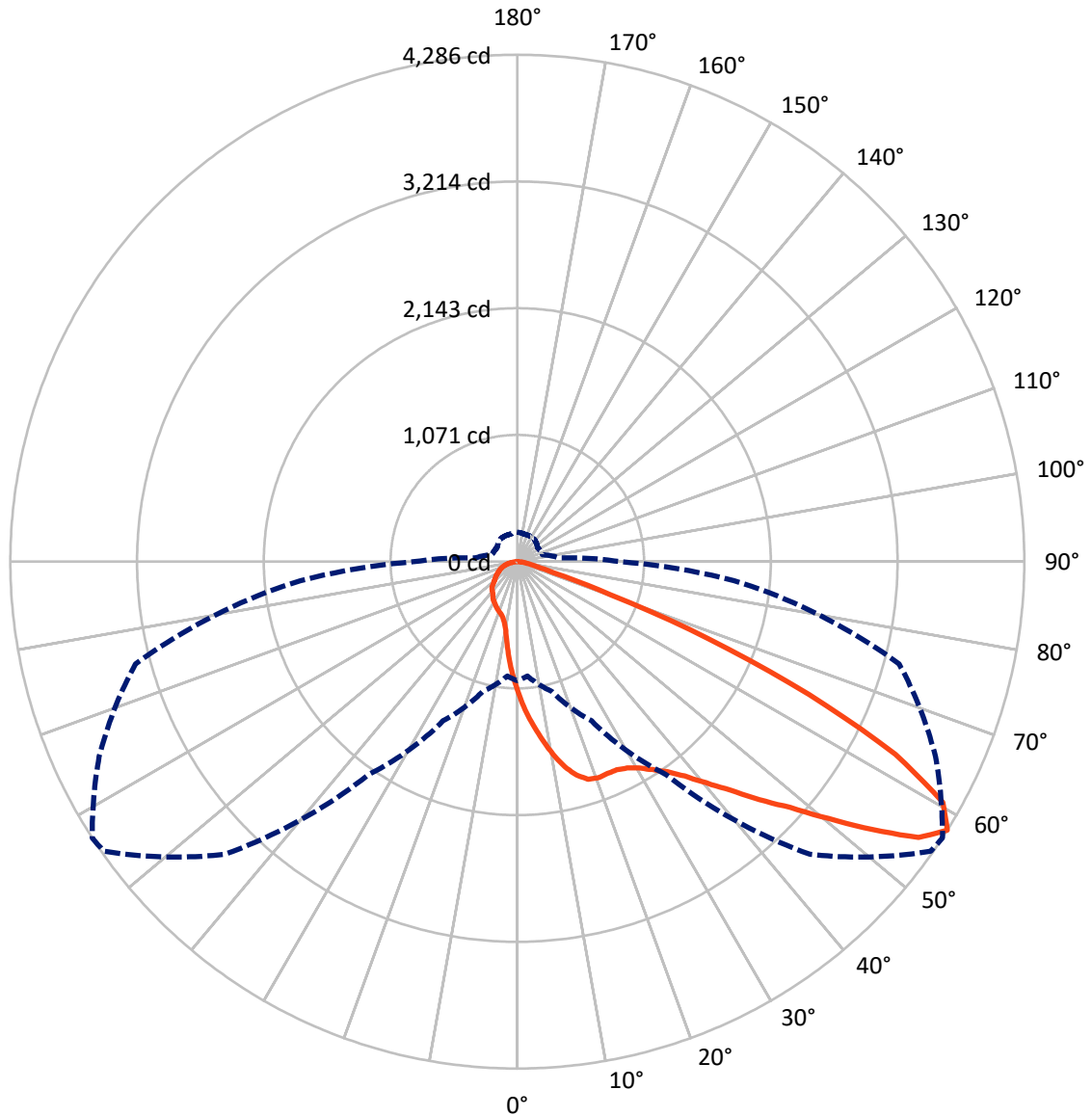
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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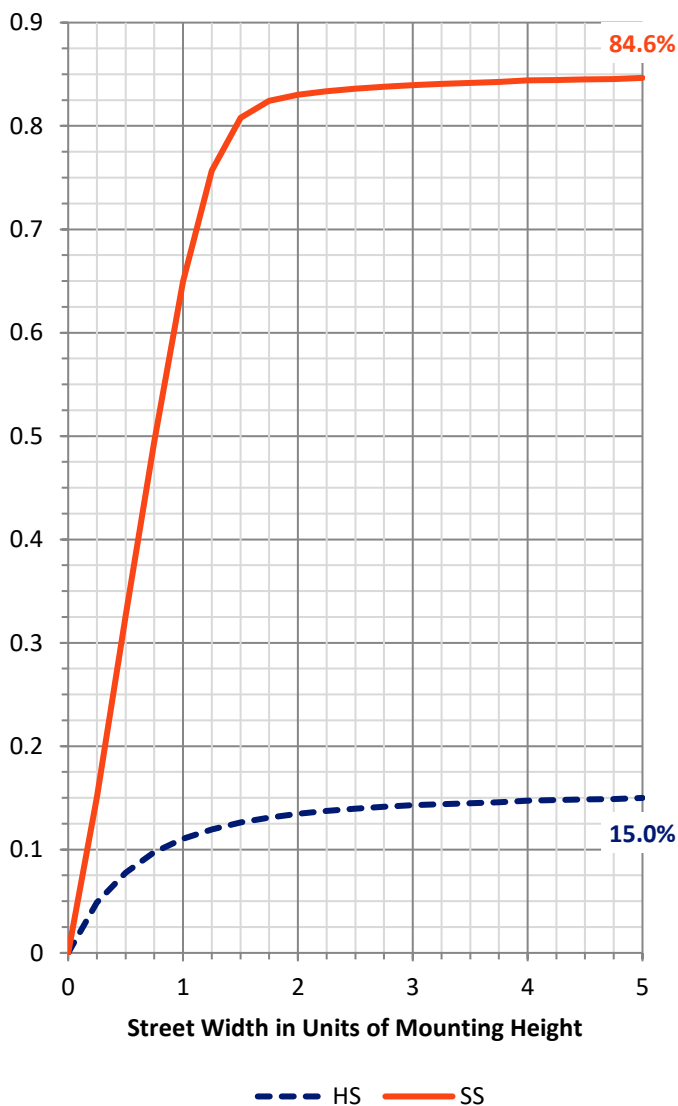
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	803.1	0.0	803.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	4477.9	0.0	4477.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	5281.0	0.0	5281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	2.0
10°-20°	314.2	6.0
20°-30°	521.8	9.9
30°-40°	786.0	14.9
40°-50°	1180.1	22.3
50°-60°	1322.8	25.0
60°-70°	774.1	14.7
70°-80°	229.0	4.3
80°-90°	46.3	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°	5281.0	100.0
0°-180°	5281.0	100.0

Coefficient of Utilization



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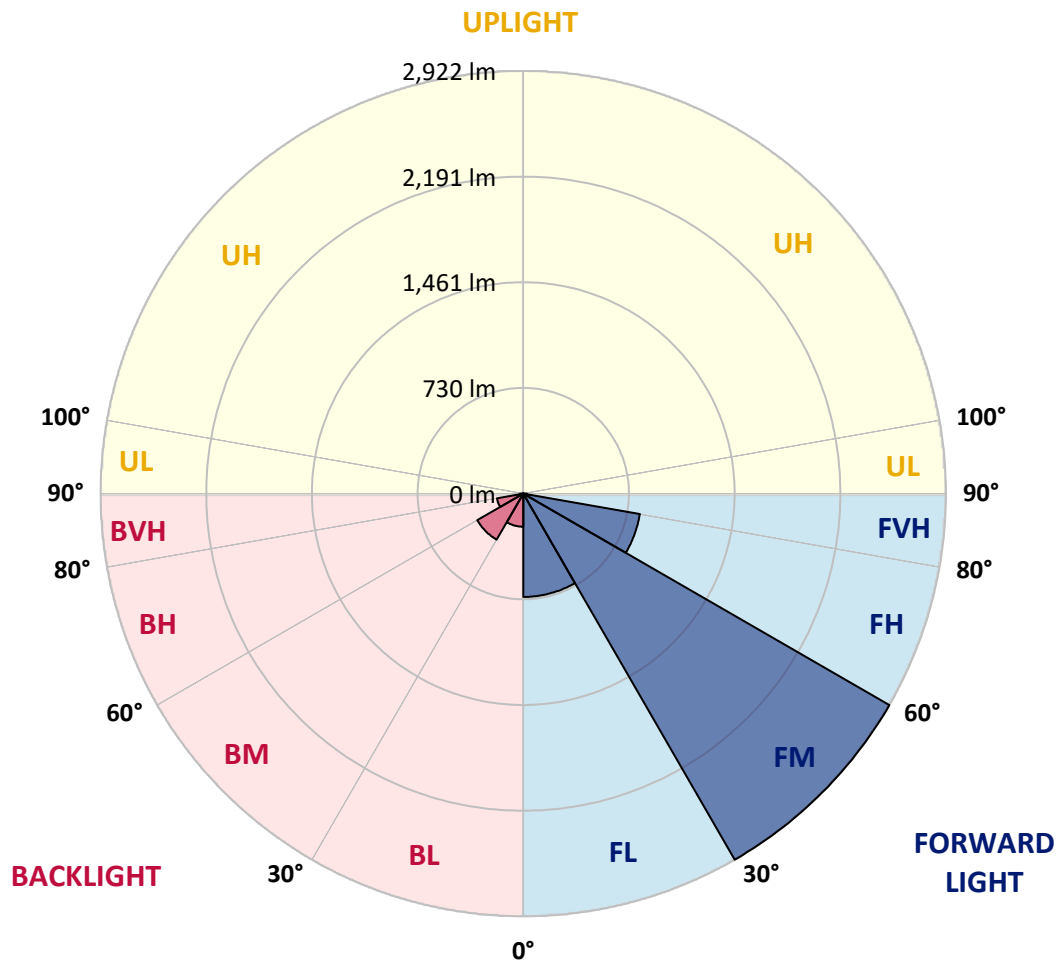
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	713.9	13.5			
FM (30°-60°)	2921.7	55.3			
FH (60°-80°)	818.3	15.5			G1/1800
FVH (80°-90°)	24.0	0.5			G1/100
BL (0°-30°)	228.8	4.3	B1/500		
BM (30°-60°)	367.2	7.0	B1/1000		
BH (60°-80°)	184.8	3.5	B1/500		G1/500
BVH (80°-90°)	22.3	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°	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5
2.5°	1378.6	1363.6	1351.7	1341.3	1327.7	1291.0	1254.3	1253.7	1224.5	1179.4	1133.2
5°	1603.2	1583.0	1585.6	1553.2	1520.8	1467.6	1389.9	1385.8	1323.7	1239.3	1153.4
7.5°	1749.5	1749.8	1741.7	1723.2	1688.2	1627.8	1539.6	1519.7	1433.2	1305.2	1176.5
10°	1742.0	1749.8	1763.4	1779.3	1790.0	1760.2	1679.8	1655.5	1543.1	1385.0	1202.3
12.5°	1642.0	1654.1	1673.5	1713.4	1777.8	1827.0	1799.5	1779.8	1670.3	1464.5	1230.6
15°	1579.5	1586.7	1597.4	1624.3	1693.7	1811.4	1882.5	1872.1	1790.3	1554.4	1262.4
17.5°	1560.4	1567.7	1571.1	1587.6	1637.0	1757.6	1915.1	1933.6	1896.6	1637.0	1294.5
20°	1579.5	1583.0	1583.0	1592.8	1631.6	1726.1	1913.7	1951.0	1983.9	1736.2	1324.6
22.5°	1629.5	1631.0	1628.9	1632.4	1661.3	1734.8	1900.1	1946.4	2054.5	1820.3	1348.0
25°	1710.8	1713.1	1699.8	1691.7	1712.8	1772.9	1907.6	1950.1	2109.7	1900.7	1363.6
27.5°	1803.0	1805.9	1789.7	1770.9	1780.7	1820.0	1937.1	1975.3	2151.0	1979.9	1373.4
30°	1916.0	1917.2	1890.0	1867.4	1861.1	1890.3	1987.4	2023.0	2202.5	2073.3	1388.1
32.5°	2031.6	2040.3	2005.3	1973.5	1962.8	1971.8	2061.7	2096.1	2263.8	2173.6	1411.9
35°	2188.9	2190.3	2148.4	2109.7	2074.4	2086.0	2156.8	2181.7	2348.5	2289.5	1445.4
37.5°	2385.2	2398.5	2340.7	2268.4	2225.0	2208.3	2271.9	2299.0	2467.3	2431.7	1496.0
40°	2603.1	2608.1	2558.6	2513.5	2434.3	2385.8	2429.7	2459.2	2613.8	2601.4	1554.7
42.5°	2740.2	2750.9	2754.6	2750.0	2690.4	2608.9	2625.7	2639.6	2787.3	2760.7	1614.8
45°	2786.4	2802.3	2856.1	2970.0	2976.3	2896.0	2856.9	2870.2	2976.3	2921.4	1672.3
47.5°	2709.8	2737.0	2836.1	3069.7	3244.6	3250.7	3133.0	3103.8	3148.6	3054.7	1713.9
50°	2511.8	2517.6	2669.3	3007.6	3370.3	3589.8	3468.1	3413.7	3312.2	3153.3	1742.6
52.5°	2205.4	2212.0	2339.2	2718.8	3292.9	3826.8	3860.0	3762.9	3478.5	3229.9	1761.3
55°	1637.0	1675.5	1815.4	2182.2	2925.7	3804.5	4171.7	4116.5	3679.4	3290.6	1790.8
57.5°	1006.6	971.3	1137.2	1484.7	2200.5	3498.7	4267.9	4285.9	3900.5	3341.4	1840.3
60°	463.1	470.0	538.6	765.8	1341.3	2737.0	4019.9	4133.2	4022.8	3339.7	1852.7
62.5°	319.1	312.8	295.4	336.2	611.7	1731.0	3395.5	3587.4	3777.7	3235.9	1803.3
65°	285.3	279.0	245.4	234.2	281.0	754.5	2468.4	2710.7	3180.7	2974.0	1680.1
67.5°	266.5	257.9	223.2	201.2	200.6	300.4	1455.5	1747.2	2359.2	2514.4	1455.8
70°	246.9	239.9	205.5	181.3	170.8	188.8	639.7	837.5	1531.8	1811.9	1134.0
72.5°	227.2	219.1	188.2	162.2	148.6	141.4	245.1	318.9	865.5	1086.4	695.2
75°	198.6	194.5	168.2	146.9	132.1	114.2	155.5	177.5	414.0	498.9	348.9
77.5°	173.7	169.4	149.5	128.4	117.7	92.8	110.4	120.5	174.6	202.4	157.5
80°	127.2	131.5	126.0	113.3	104.9	72.8	74.3	82.7	103.8	114.8	96.3
82.5°	80.7	88.7	97.1	87.3	79.5	57.5	51.5	54.6	70.8	75.2	42.8
85°	33.8	34.4	56.4	53.2	45.4	34.1	30.9	32.7	37.9	39.6	19.9
87.5°	13.0	12.7	19.9	18.5	14.2	9.8	9.8	11.0	15.0	13.9	6.4
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°	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5	1109.5
2.5°	1113.2	1092.7	1052.0	1001.4	964.4	922.7	886.0	859.7	849.9	845.3	836.6
5°	1112.4	1071.9	987.5	899.0	827.9	755.1	693.5	653.6	650.1	623.5	620.9
7.5°	1112.7	1050.8	916.4	786.3	677.9	603.3	552.4	539.1	523.2	519.2	521.2
10°	1113.5	1023.9	840.1	674.7	569.8	520.9	501.8	496.6	497.2	498.9	499.2
12.5°	1114.7	997.9	760.9	590.0	509.1	488.8	486.8	491.4	496.3	500.1	501.0
15°	1116.1	968.1	683.7	521.8	478.7	477.0	483.6	491.4	498.4	503.9	504.7
17.5°	1114.4	933.4	618.9	479.9	461.9	470.3	481.3	491.1	497.5	502.7	503.3
20°	1110.3	894.7	556.5	450.4	451.5	465.1	477.0	486.2	493.2	495.8	497.8
22.5°	1094.7	848.4	502.1	427.5	439.1	457.9	472.1	477.6	469.8	464.3	465.7
25°	1068.1	788.3	451.5	409.0	427.8	447.8	462.2	448.9	442.6	440.3	441.4
27.5°	1034.9	722.4	413.4	389.7	413.4	436.5	432.5	430.1	427.3	423.5	424.4
30°	999.1	657.9	381.0	374.6	397.8	411.1	412.8	416.6	413.4	407.6	409.9
32.5°	965.8	597.2	356.4	361.9	386.8	384.8	397.8	402.1	387.4	368.0	368.9
35°	937.5	540.9	337.9	349.5	368.0	368.9	381.9	366.8	350.9	341.7	342.3
37.5°	916.1	496.9	325.8	338.8	344.0	355.0	348.0	340.2	338.2	331.9	332.1
40°	903.4	458.5	318.0	330.4	329.5	337.1	314.8	322.6	325.5	323.5	323.8
42.5°	890.6	431.3	309.9	318.9	318.6	303.8	298.9	305.6	313.1	313.9	313.4
45°	880.5	410.2	301.5	301.2	307.0	283.9	282.4	286.5	297.2	302.4	302.1
47.5°	869.3	392.6	288.8	280.7	282.4	271.4	269.1	270.9	283.9	292.3	294.6
50°	855.1	374.9	272.9	261.9	254.7	259.9	260.5	260.7	273.8	283.3	285.3
52.5°	843.8	361.6	254.7	246.6	237.9	249.5	253.8	254.4	262.2	270.0	271.4
55°	850.5	354.1	236.8	231.0	223.2	238.8	247.2	248.3	250.1	255.8	256.7
57.5°	870.4	355.9	222.3	214.8	209.0	226.1	240.2	241.1	239.9	246.9	248.0
60°	876.5	355.0	211.6	196.9	193.4	212.5	230.1	231.8	231.6	241.7	243.7
62.5°	851.0	344.0	200.9	181.8	179.5	198.6	215.9	222.9	224.3	238.8	241.4
65°	791.2	321.5	186.7	165.9	165.9	183.9	202.4	211.9	215.9	235.3	238.2
67.5°	712.3	294.9	172.3	152.3	151.8	169.7	187.9	197.7	204.1	230.4	232.1
70°	591.2	259.0	154.4	137.6	137.6	153.8	170.3	182.1	191.4	221.1	221.1
72.5°	405.0	215.4	132.7	120.8	121.1	136.2	152.9	166.2	177.2	202.6	203.2
75°	256.1	168.2	109.0	102.9	104.1	118.2	135.6	149.5	171.4	200.3	201.2
77.5°	136.2	118.2	86.7	85.3	86.7	99.7	119.1	138.2	172.0	173.7	170.8
80°	88.2	83.8	68.5	65.6	66.2	80.4	106.1	131.2	138.2	139.9	133.6
82.5°	48.0	53.2	48.6	45.7	45.7	62.7	90.5	104.4	99.2	82.4	78.6
85°	20.5	24.9	25.1	22.0	21.1	38.7	60.7	56.9	52.9	50.6	50.0
87.5°	5.8	8.1	8.1	6.1	4.6	10.7	12.1	3.5	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)