

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: P450426

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450426
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-SA1B-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4862 lumens
Efficiency: N/A
Efficacy: 110.5 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

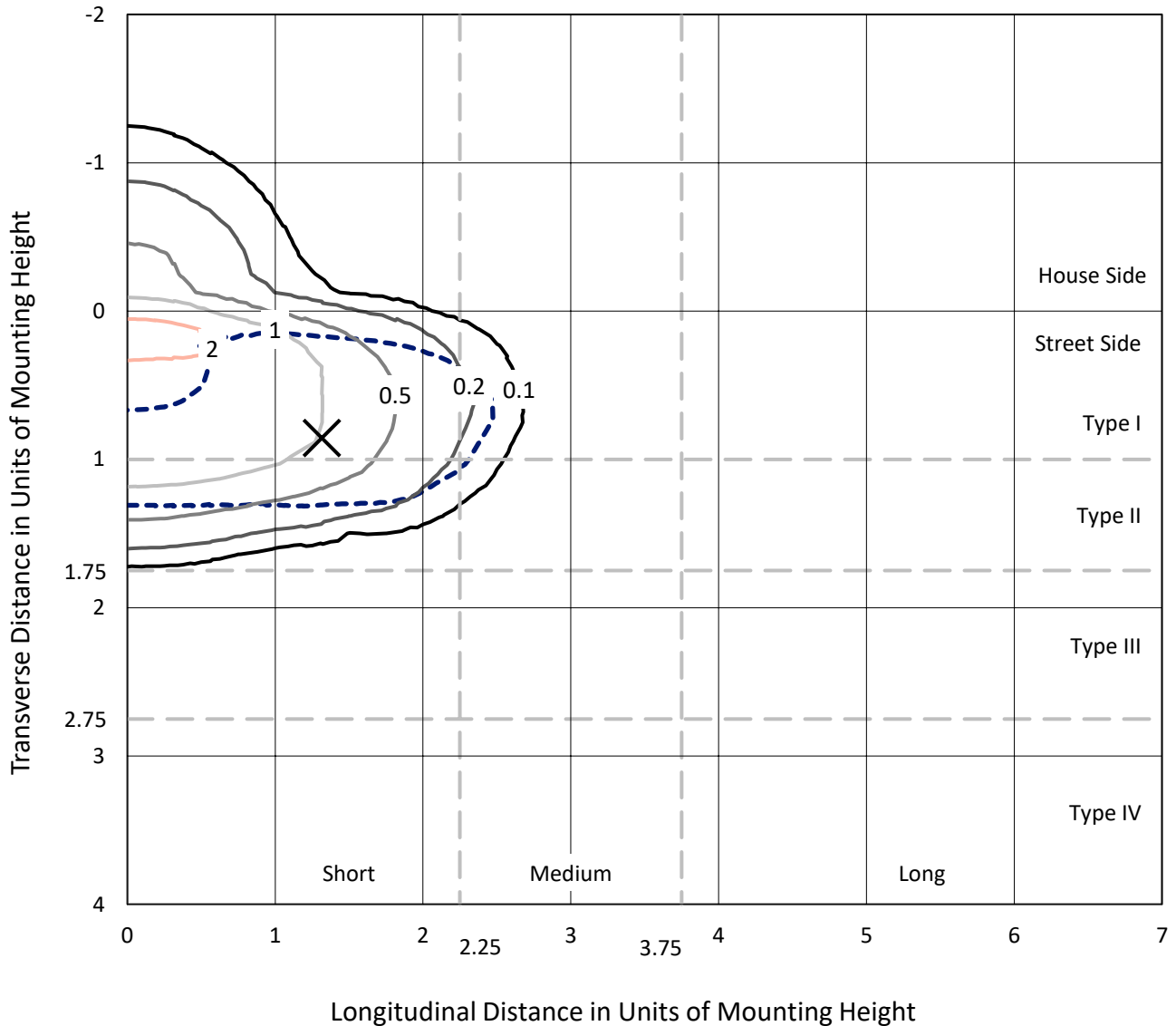
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

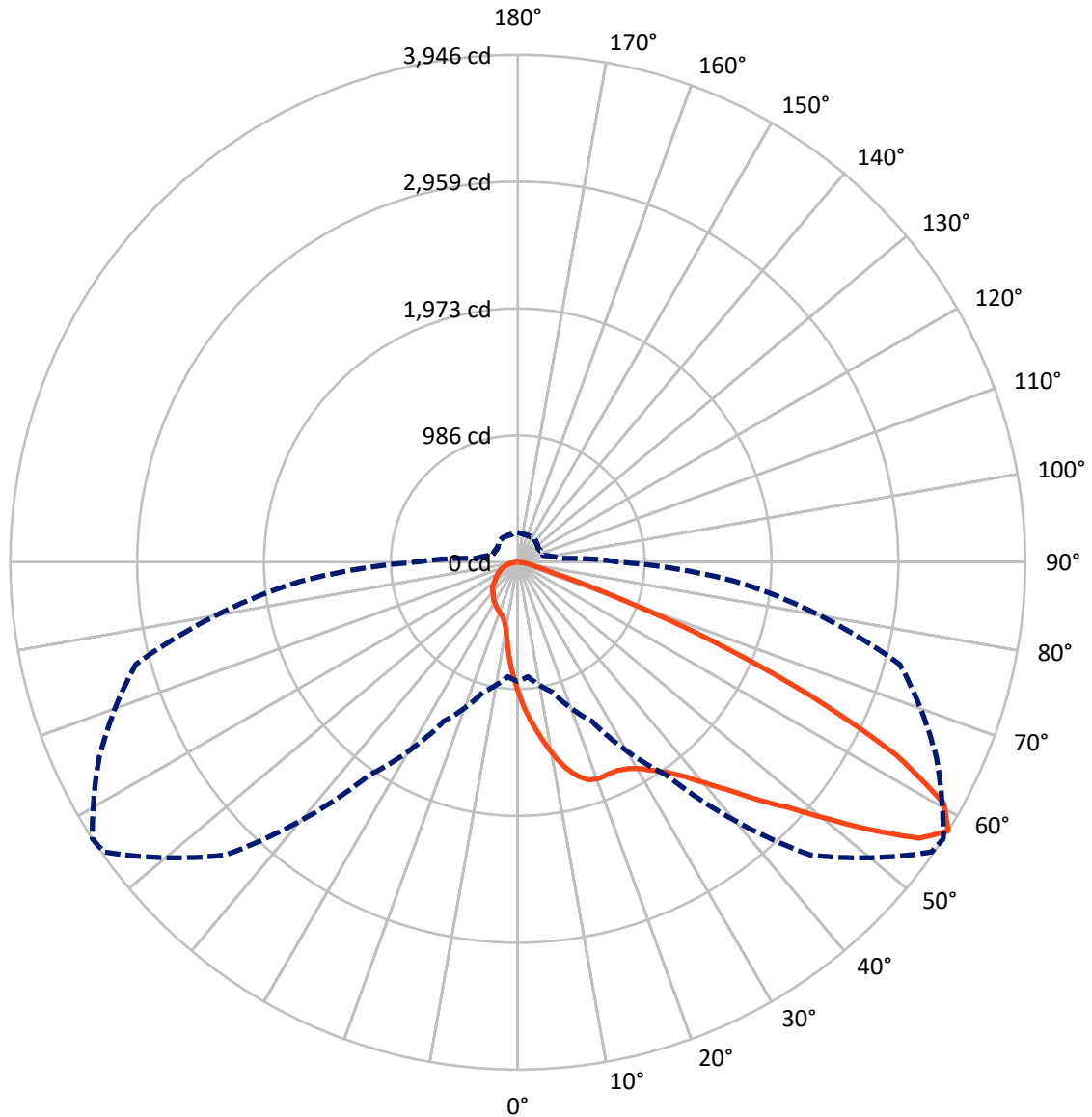
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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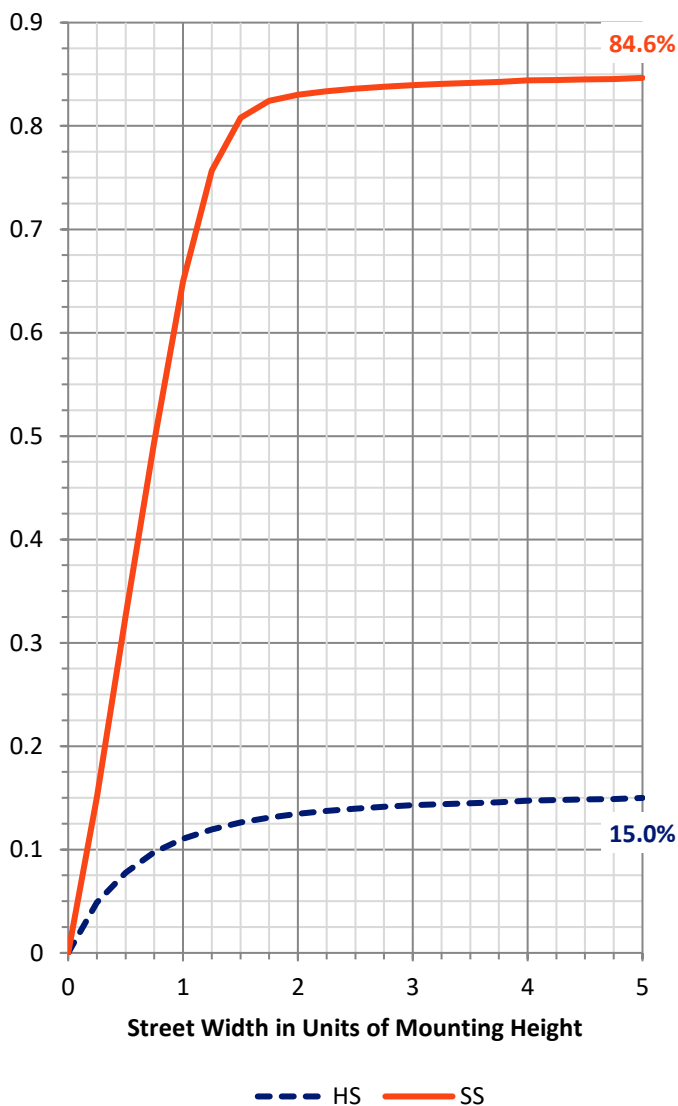
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	739.4	0.0	739.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	4122.6	0.0	4122.6
	% Fixture	84.8	0.0	84.8
Total	Lumens	4862.0	0.0	4862.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	2.0
10°-20°	289.3	6.0
20°-30°	480.4	9.9
30°-40°	723.6	14.9
40°-50°	1086.5	22.3
50°-60°	1217.8	25.0
60°-70°	712.7	14.7
70°-80°	210.8	4.3
80°-90°	42.6	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°	4862.0	100.0
0°-180°	4862.0	100.0

Coefficient of Utilization



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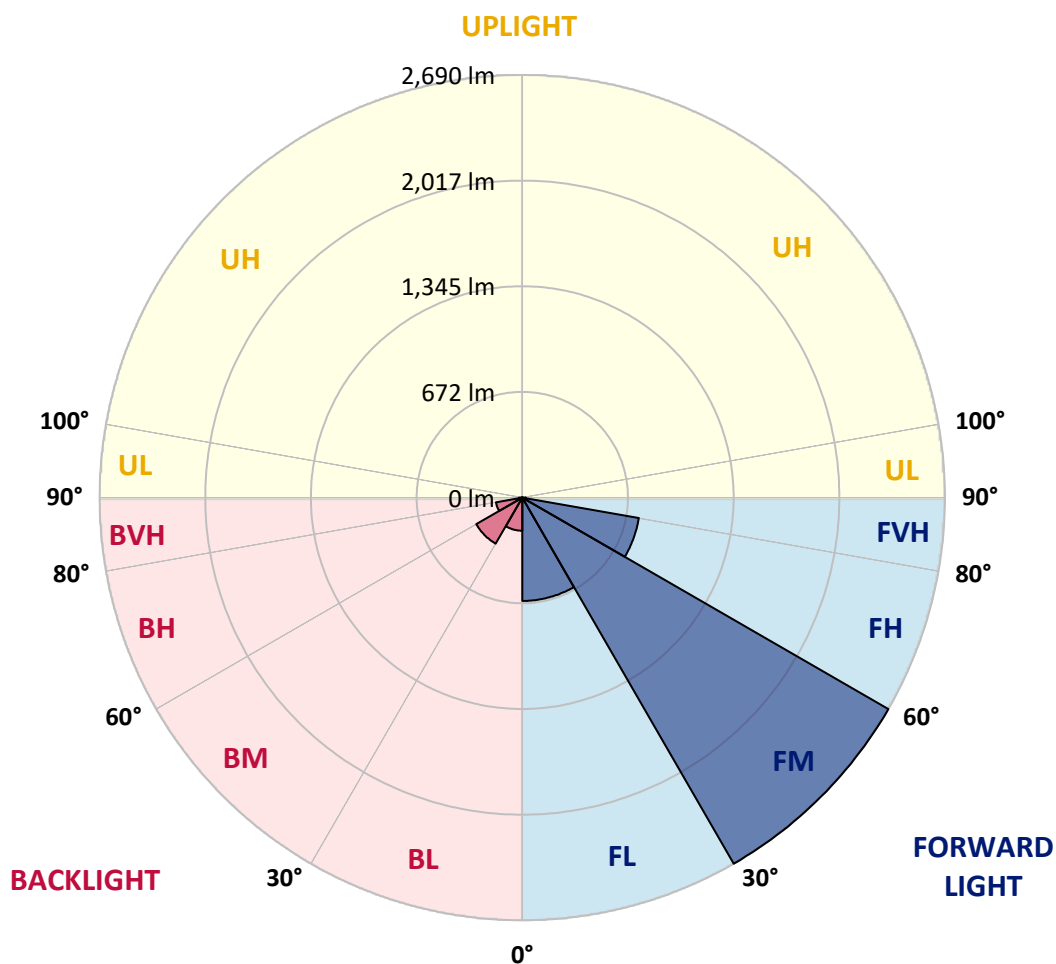
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	657.2	13.5			
FM	(30°-60°)	2689.9	55.3			
FH	(60°-80°)	753.4	15.5			G1/1800
FVH	(80°-90°)	22.1	0.5			G1/100
BL	(0°-30°)	210.7	4.3	B1/500		
BM	(30°-60°)	338.1	7.0	B1/1000		
BH	(60°-80°)	170.1	3.5	B1/500		G1/500
BVH	(80°-90°)	20.5	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°	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5
2.5°	1269.2	1255.4	1244.5	1234.9	1222.4	1188.6	1154.8	1154.3	1127.4	1085.9	1043.3
5°	1476.0	1457.4	1459.8	1430.0	1400.2	1351.2	1279.6	1275.9	1218.7	1140.9	1061.9
7.5°	1610.7	1611.0	1603.5	1586.5	1554.3	1498.6	1417.5	1399.1	1319.5	1201.6	1083.2
10°	1603.8	1611.0	1623.5	1638.1	1647.9	1620.5	1546.5	1524.2	1420.7	1275.1	1106.9
12.5°	1511.7	1522.9	1540.7	1577.4	1636.8	1682.0	1656.7	1638.6	1537.8	1348.3	1133.0
15°	1454.2	1460.8	1470.7	1495.4	1559.3	1667.6	1733.1	1723.5	1648.2	1431.0	1162.2
17.5°	1436.6	1443.3	1446.5	1461.6	1507.2	1618.1	1763.2	1780.2	1746.2	1507.2	1191.8
20°	1454.2	1457.4	1457.4	1466.4	1502.1	1589.1	1761.9	1796.2	1826.5	1598.4	1219.5
22.5°	1500.2	1501.6	1499.7	1502.9	1529.5	1597.1	1749.3	1791.9	1891.5	1675.9	1241.0
25°	1575.0	1577.2	1564.9	1557.5	1576.9	1632.2	1756.3	1795.4	1942.3	1749.9	1255.4
27.5°	1659.9	1662.6	1647.7	1630.4	1639.4	1675.6	1783.4	1818.5	1980.4	1822.8	1264.4
30°	1764.0	1765.0	1740.0	1719.3	1713.4	1740.3	1829.7	1862.5	2027.7	1908.8	1278.0
32.5°	1870.4	1878.4	1846.2	1816.9	1807.1	1815.4	1898.1	1929.8	2084.2	2001.1	1299.8
35°	2015.2	2016.6	1978.0	1942.3	1909.8	1920.5	1985.7	2008.6	2162.1	2107.8	1330.7
37.5°	2195.9	2208.2	2154.9	2088.4	2048.5	2033.1	2091.6	2116.6	2271.5	2238.8	1377.3
40°	2396.6	2401.1	2355.6	2314.1	2241.2	2196.5	2236.9	2264.1	2406.5	2395.0	1431.3
42.5°	2522.8	2532.6	2536.1	2531.8	2477.0	2401.9	2417.4	2430.1	2566.1	2541.7	1486.7
45°	2565.3	2580.0	2629.5	2734.3	2740.2	2666.2	2630.3	2642.5	2740.2	2689.6	1539.6
47.5°	2494.8	2519.8	2611.1	2826.2	2987.2	2992.8	2884.4	2857.6	2898.8	2812.3	1578.0
50°	2312.5	2317.8	2457.5	2768.9	3102.9	3304.9	3192.9	3142.9	3049.4	2903.1	1604.3
52.5°	2030.4	2036.5	2153.6	2503.1	3031.6	3523.2	3553.8	3464.4	3202.5	2973.6	1621.6
55°	1507.2	1542.6	1671.4	2009.1	2693.6	3502.7	3840.7	3789.9	3387.4	3029.5	1648.7
57.5°	926.7	894.2	1047.0	1366.9	2025.9	3221.1	3929.3	3945.8	3591.0	3076.3	1694.3
60°	426.4	432.7	495.8	705.0	1234.9	2519.8	3701.0	3805.3	3703.6	3074.7	1705.7
62.5°	293.8	288.0	272.0	309.5	563.2	1593.7	3126.1	3302.8	3477.9	2979.2	1660.2
65°	262.7	256.8	226.0	215.6	258.7	694.6	2272.6	2495.6	2928.4	2738.1	1546.8
67.5°	245.4	237.4	205.5	185.2	184.7	276.5	1340.0	1608.6	2172.0	2314.9	1340.3
70°	227.3	220.9	189.2	166.9	157.3	173.8	589.0	771.0	1410.3	1668.2	1044.1
72.5°	209.2	201.7	173.3	149.3	136.8	130.1	225.7	293.6	796.8	1000.2	640.1
75°	182.8	179.1	154.9	135.2	121.6	105.1	143.2	163.4	381.1	459.4	321.2
77.5°	160.0	156.0	137.6	118.2	108.3	85.4	101.7	111.0	160.7	186.3	145.0
80°	117.1	121.1	116.0	104.3	96.6	67.1	68.4	76.1	95.5	105.7	88.6
82.5°	74.3	81.7	89.4	80.4	73.2	53.0	47.4	50.3	65.2	69.2	39.4
85°	31.1	31.7	51.9	49.0	41.8	31.4	28.5	30.1	34.9	36.5	18.4
87.5°	12.0	11.7	18.4	17.0	13.0	9.0	9.0	10.1	13.8	12.8	5.9
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°	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5	1021.5
2.5°	1024.9	1006.0	968.5	921.9	887.8	849.5	815.7	791.5	782.5	778.2	770.2
5°	1024.1	986.9	909.1	827.7	762.2	695.2	638.5	601.7	598.6	574.1	571.7
7.5°	1024.4	967.4	843.7	723.9	624.1	555.4	508.6	496.4	481.7	478.0	479.9
10°	1025.2	942.7	773.4	621.2	524.6	479.6	462.0	457.2	457.8	459.4	459.6
12.5°	1026.2	918.7	700.5	543.2	468.7	450.0	448.2	452.4	457.0	460.4	461.2
15°	1027.6	891.3	629.4	480.4	440.7	439.1	445.3	452.4	458.8	463.9	464.7
17.5°	1026.0	859.4	569.8	441.8	425.3	433.0	443.1	452.2	458.0	462.8	463.4
20°	1022.2	823.7	512.3	414.6	415.7	428.2	439.1	447.6	454.0	456.4	458.3
22.5°	1007.9	781.1	462.3	393.6	404.3	421.6	434.6	439.7	432.5	427.4	428.8
25°	983.4	725.8	415.7	376.6	393.9	412.3	425.6	413.3	407.5	405.3	406.4
27.5°	952.8	665.1	380.6	358.8	380.6	401.9	398.1	396.0	393.4	389.9	390.7
30°	919.8	605.7	350.8	344.9	366.2	378.5	380.0	383.5	380.6	375.3	377.4
32.5°	889.2	549.8	328.2	333.2	356.1	354.2	366.2	370.2	356.6	338.8	339.6
35°	863.1	498.0	311.1	321.8	338.8	339.6	351.6	337.7	323.1	314.6	315.1
37.5°	843.4	457.5	299.9	311.9	316.7	326.8	320.4	313.2	311.4	305.5	305.8
40°	831.7	422.1	292.8	304.2	303.4	310.3	289.8	297.0	299.7	297.8	298.1
42.5°	820.0	397.1	285.3	293.6	293.3	279.7	275.2	281.3	288.2	289.0	288.5
45°	810.7	377.7	277.6	277.3	282.6	261.4	260.0	263.7	273.6	278.4	278.1
47.5°	800.3	361.4	265.9	258.4	260.0	249.9	247.8	249.4	261.4	269.1	271.2
50°	787.2	345.2	251.2	241.1	234.5	239.3	239.8	240.1	252.0	260.8	262.7
52.5°	776.9	332.9	234.5	227.0	219.0	229.7	233.7	234.2	241.4	248.6	249.9
55°	783.0	326.0	218.0	212.6	205.5	219.8	227.6	228.6	230.2	235.5	236.3
57.5°	801.4	327.6	204.7	197.7	192.4	208.1	221.2	222.0	220.9	227.3	228.3
60°	806.9	326.8	194.8	181.2	178.0	195.6	211.8	213.4	213.2	222.5	224.4
62.5°	783.5	316.7	185.0	167.4	165.3	182.8	198.8	205.2	206.5	219.8	222.2
65°	728.4	295.9	171.9	152.8	152.8	169.3	186.3	195.1	198.8	216.6	219.3
67.5°	655.8	271.5	158.6	140.3	139.7	156.2	173.0	182.0	187.9	212.1	213.7
70°	544.3	238.5	142.1	126.7	126.7	141.6	156.8	167.7	176.2	203.6	203.6
72.5°	372.9	198.3	122.2	111.2	111.5	125.4	140.8	153.0	163.1	186.6	187.1
75°	235.8	154.9	100.3	94.7	95.8	108.9	124.8	137.6	157.8	184.4	185.2
77.5°	125.4	108.9	79.8	78.5	79.8	91.8	109.7	127.2	158.4	160.0	157.3
80°	81.2	77.2	63.1	60.4	60.9	74.0	97.7	120.8	127.2	128.8	123.0
82.5°	44.2	49.0	44.7	42.1	42.1	57.8	83.3	96.1	91.3	75.9	72.4
85°	18.9	22.9	23.2	20.2	19.4	35.7	55.9	52.4	48.7	46.6	46.0
87.5°	5.3	7.5	7.5	5.6	4.3	9.8	11.2	3.2	0.0	0.3	0.5
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)