

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: P382833

Luminaire Tested: **GLEON-SA2A-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8438.9 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

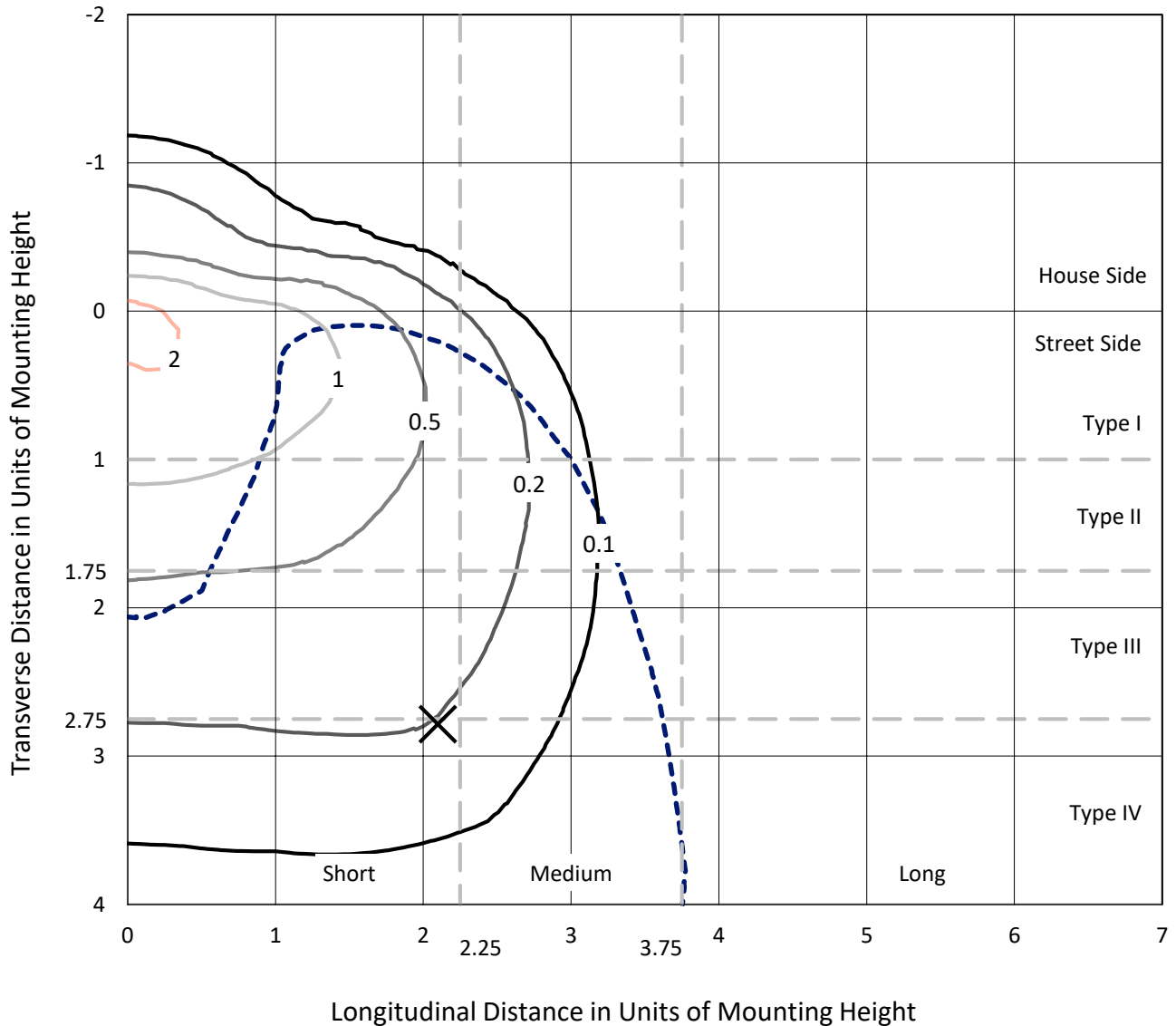
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

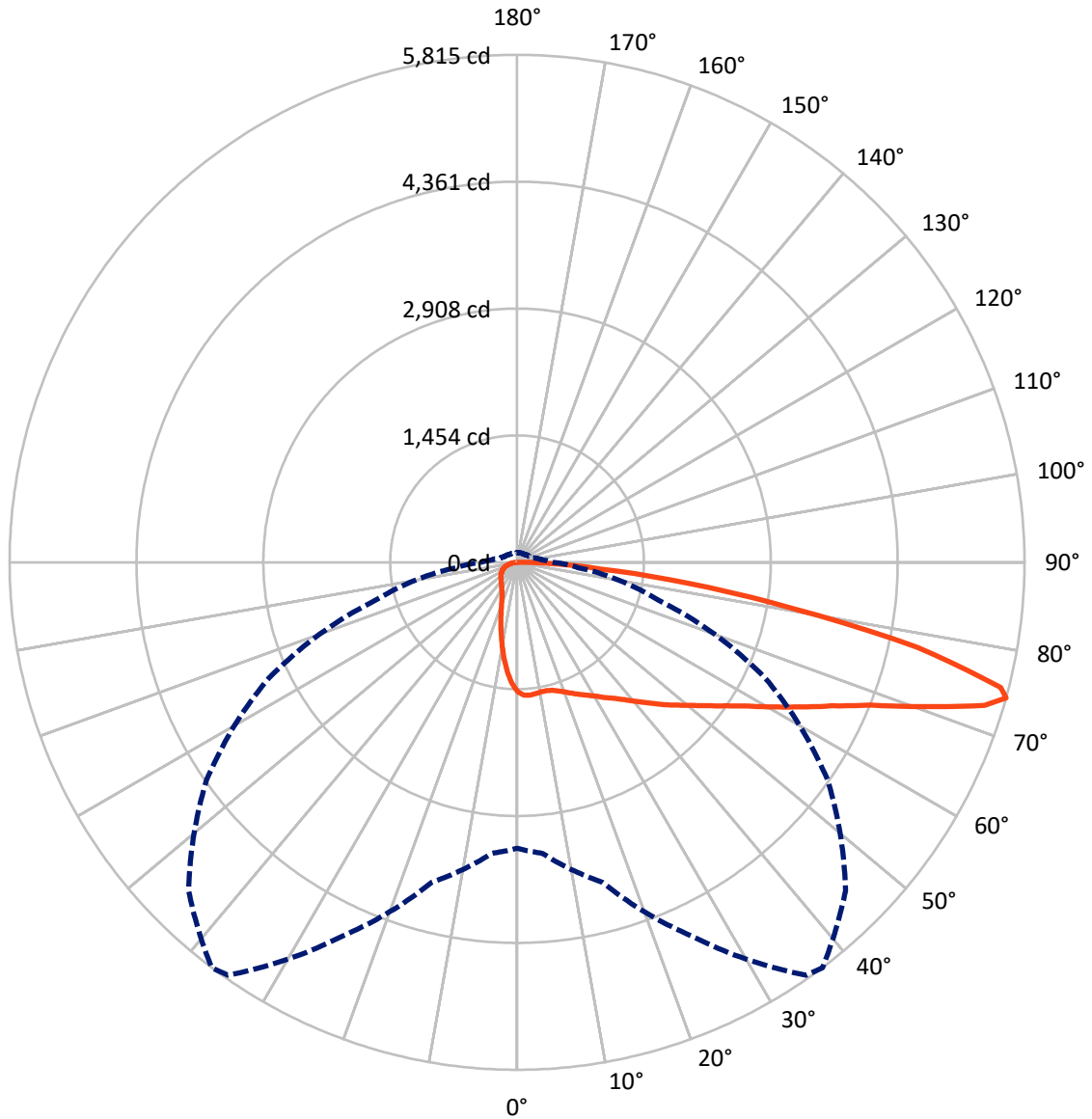
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical



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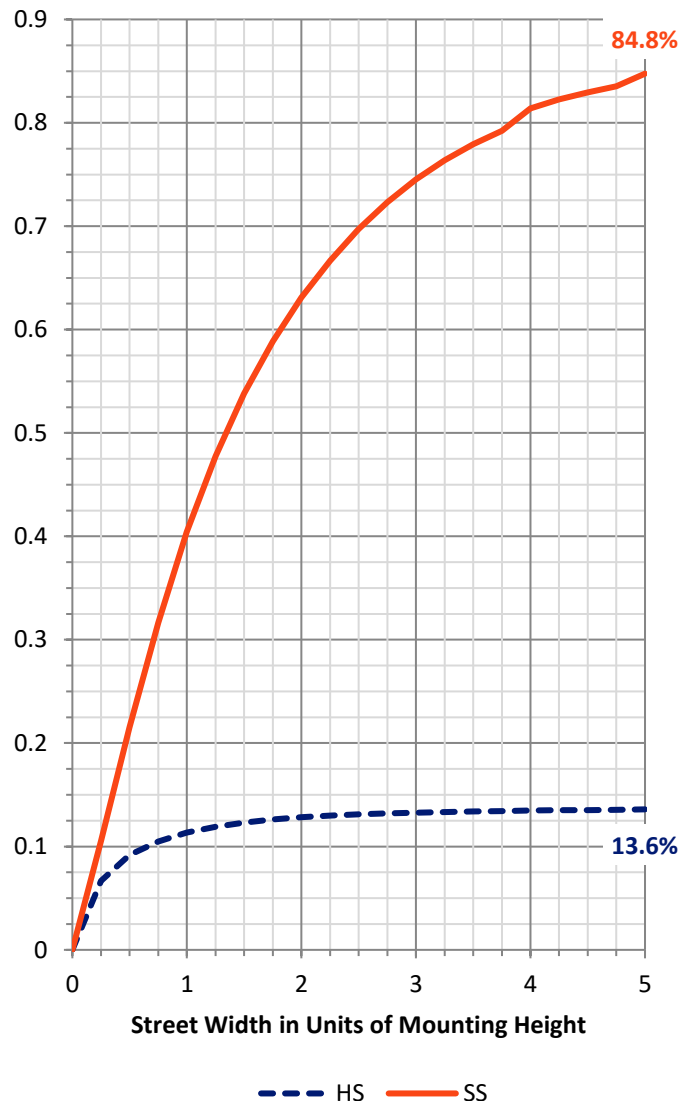
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1161.1	0.0	1161.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	7277.7	0.0	7277.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	8438.9	0.0	8438.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	1.6
10°-20°	335.6	4.0
20°-30°	517.1	6.1
30°-40°	752.0	8.9
40°-50°	1106.8	13.1
50°-60°	1554.3	18.4
60°-70°	1967.3	23.3
70°-80°	1732.3	20.5
80°-90°	342.5	4.1
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°	8438.9	100.0
0°-180°	8438.9	100.0

Coefficient of Utilization



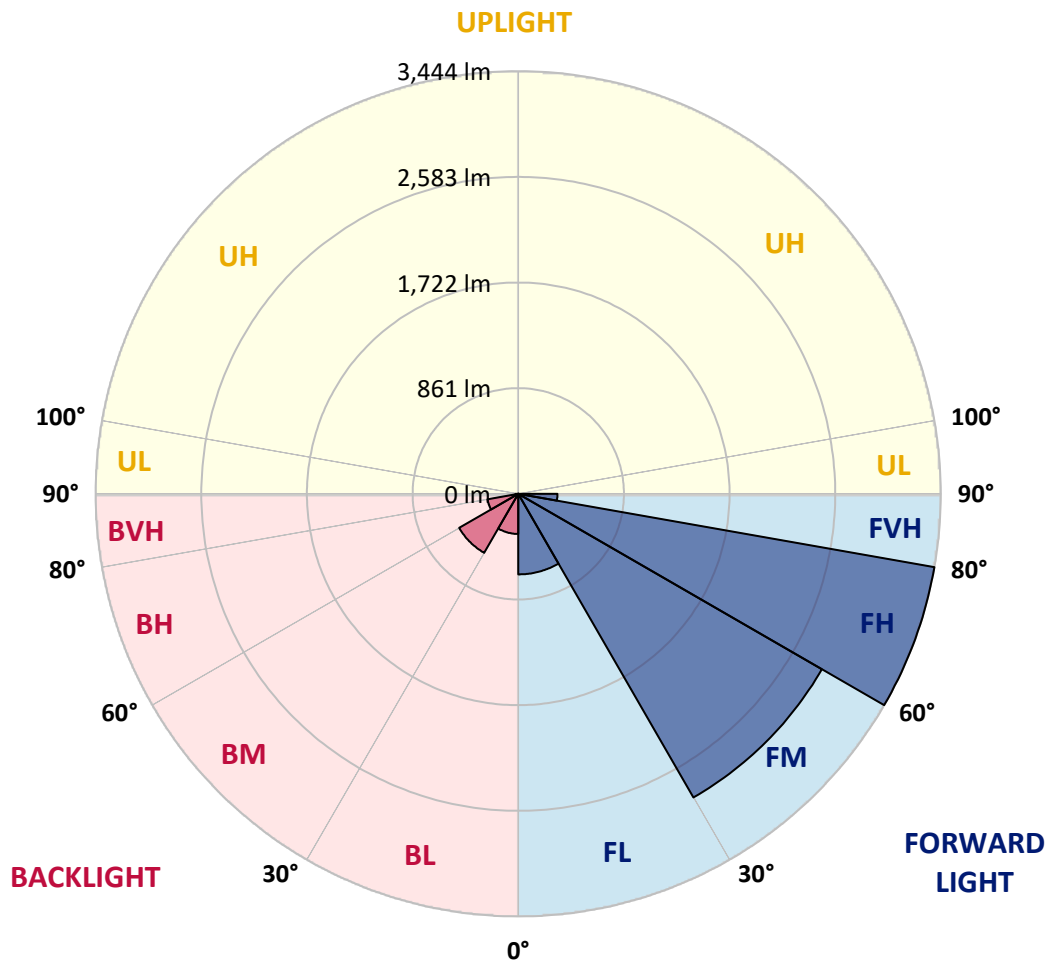
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	656.6	7.8			
FM (30°-60°)	2857.5	33.9			
FH (60°-80°)	3444.3	40.8			G2/5000
FVH (80°-90°)	319.3	3.8			G3/500
BL (0°-30°)	327.1	3.9	B1/500		
BM (30°-60°)	555.6	6.6	B1/1000		
BH (60°-80°)	255.2	3.0	B1/500		G1/500
BVH (80°-90°)	23.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1486.9	1486.9	1486.9	1486.9	1486.9	1486.9	1486.9	1486.9	1486.9	1486.9	1486.9
2.5°	1537.7	1538.0	1537.7	1535.4	1529.7	1524.9	1521.1	1515.4	1503.0	1493.5	1479.2
5°	1552.3	1550.5	1549.3	1544.9	1535.9	1530.6	1523.2	1512.5	1492.0	1473.0	1449.8
7.5°	1545.4	1543.4	1540.7	1535.4	1525.2	1520.8	1510.4	1496.4	1471.8	1446.8	1413.4
10°	1524.4	1523.7	1522.6	1521.4	1512.7	1509.2	1499.7	1484.8	1460.5	1430.1	1391.2
12.5°	1500.9	1502.4	1507.2	1513.4	1509.5	1507.7	1501.7	1491.7	1466.7	1434.0	1387.0
15°	1486.0	1490.2	1503.0	1519.3	1522.6	1522.0	1520.5	1514.0	1487.5	1451.3	1396.6
17.5°	1481.0	1487.8	1512.2	1539.2	1548.7	1550.8	1551.4	1540.1	1510.7	1472.3	1406.4
20°	1490.2	1498.8	1534.4	1571.6	1586.8	1588.0	1585.3	1565.7	1532.7	1490.5	1411.7
22.5°	1518.1	1525.9	1570.4	1612.3	1629.6	1631.3	1623.3	1593.6	1555.9	1511.9	1419.1
25°	1571.9	1581.4	1626.0	1667.9	1676.9	1677.2	1665.5	1628.7	1586.1	1541.9	1435.1
27.5°	1642.0	1651.5	1691.7	1732.8	1728.0	1725.3	1709.6	1672.7	1625.7	1583.3	1463.7
30°	1720.3	1730.6	1768.7	1797.8	1786.5	1781.2	1768.4	1720.8	1680.7	1639.7	1507.4
32.5°	1801.1	1810.6	1843.9	1863.8	1849.6	1847.2	1827.9	1784.5	1752.3	1725.9	1578.1
35°	1884.1	1890.9	1923.6	1934.9	1915.8	1915.3	1909.9	1870.1	1849.9	1862.3	1681.0
37.5°	1968.7	1970.5	1998.4	1999.1	1993.4	1995.8	2001.4	1976.5	1982.1	2021.1	1814.7
40°	2044.3	2049.0	2069.2	2075.5	2085.3	2093.7	2121.9	2105.5	2149.2	2218.2	1981.2
42.5°	2100.2	2109.4	2141.7	2157.8	2189.6	2202.7	2242.5	2257.7	2345.7	2449.1	2179.3
45°	2147.4	2161.7	2213.7	2246.7	2300.5	2323.4	2380.5	2431.3	2567.7	2699.7	2387.6
47.5°	2198.5	2216.7	2281.7	2344.8	2417.9	2443.8	2547.5	2623.6	2804.7	2951.8	2584.1
50°	2273.7	2287.7	2351.3	2450.3	2541.5	2574.9	2718.4	2827.5	3045.4	3191.9	2754.4
52.5°	2378.7	2373.3	2427.1	2565.9	2688.4	2729.4	2900.9	3044.6	3289.5	3409.3	2898.3
55°	2484.3	2475.3	2513.0	2687.0	2859.7	2902.8	3102.0	3262.5	3521.6	3604.9	3008.6
57.5°	2601.6	2584.7	2616.5	2823.4	3054.6	3106.1	3326.9	3494.0	3749.9	3763.0	3078.8
60°	2722.6	2699.7	2735.4	2992.5	3302.2	3362.9	3590.3	3719.9	3965.1	3889.7	3101.3
62.5°	2828.5	2812.3	2867.4	3181.3	3581.4	3648.0	3849.0	3960.1	4177.4	3942.3	3019.9
65°	2920.9	2923.6	3018.7	3393.5	3892.7	3963.6	4145.6	4256.1	4344.5	3911.1	2829.3
67.5°	3031.2	3046.3	3208.6	3673.0	4284.5	4362.3	4577.3	4579.0	4437.8	3728.0	2454.2
70°	3191.9	3223.2	3469.9	4060.6	4841.5	4948.5	5114.4	4768.7	4306.7	3231.5	1931.0
72.5°	3334.7	3393.0	3747.9	4504.1	5520.4	5601.6	5428.6	4659.2	3758.9	2421.7	1203.0
74°	3276.7	3348.9	3798.4	4722.6	5776.1	5815.0	5322.5	4340.0	3134.0	1677.2	699.1
75°	3151.9	3230.3	3724.7	4720.5	5743.6	5721.9	5066.2	3975.3	2581.1	1143.8	465.2
77.5°	2543.7	2626.6	3138.5	4045.7	4709.5	4689.0	3891.7	2666.7	1130.5	375.1	236.3
80°	1478.8	1542.2	1948.2	2569.2	3175.6	3212.8	2559.4	1319.5	444.7	210.7	160.2
82.5°	656.9	700.6	941.1	1311.5	1916.5	1964.3	1340.3	691.4	274.7	128.1	96.3
85°	431.0	463.4	571.3	624.5	912.6	945.3	656.1	538.3	181.4	70.4	70.7
87.5°	310.0	341.2	424.5	370.7	418.8	396.6	357.0	498.2	72.8	40.1	23.8
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°	1486.9	1486.9	1486.9	1486.9	1486.9	1486.9	1486.9	1486.9	1486.9	1486.9	1486.9
2.5°	1473.0	1468.2	1457.5	1437.3	1425.9	1416.4	1400.7	1391.5	1387.4	1387.0	1388.8
5°	1436.4	1425.4	1397.7	1363.9	1336.8	1312.1	1281.5	1263.1	1250.0	1242.2	1244.4
7.5°	1393.9	1376.6	1333.2	1279.1	1235.7	1187.8	1140.6	1112.4	1090.4	1074.0	1077.0
10°	1364.7	1341.0	1277.6	1199.7	1127.5	1058.0	992.8	953.9	923.0	899.2	901.0
12.5°	1354.9	1322.8	1235.1	1131.1	1029.7	934.6	849.6	789.9	758.0	731.0	733.0
15°	1356.4	1313.3	1199.5	1069.2	941.7	821.9	718.8	648.9	605.8	587.1	587.4
17.5°	1357.6	1302.3	1162.0	1003.0	854.6	716.7	604.7	533.9	493.2	475.9	476.2
20°	1353.7	1284.5	1115.6	926.9	763.7	620.1	511.6	451.5	420.6	407.3	407.3
22.5°	1348.7	1263.4	1063.3	850.5	673.9	536.3	445.0	399.3	381.4	372.4	372.2
25°	1351.0	1247.6	1009.8	772.0	591.3	469.4	400.8	370.4	358.5	352.9	352.6
27.5°	1363.9	1240.2	960.4	693.8	519.1	419.1	370.9	349.6	341.9	338.2	338.2
30°	1387.0	1240.2	909.0	627.2	459.0	381.9	348.1	333.5	328.2	325.8	325.8
32.5°	1427.4	1247.0	859.4	561.3	411.1	352.9	329.0	319.2	315.1	313.9	313.9
35°	1497.0	1270.2	810.9	498.8	372.4	329.0	311.0	305.3	302.3	302.0	302.9
37.5°	1594.8	1317.5	765.5	452.7	345.1	309.7	295.8	291.3	289.5	291.0	292.2
40°	1717.9	1381.7	724.1	411.1	324.3	294.3	281.8	278.8	278.0	280.0	281.8
42.5°	1866.5	1468.5	690.3	381.1	308.2	281.2	269.9	266.3	265.5	267.8	270.2
45°	2027.3	1561.8	666.4	358.8	295.8	271.4	259.5	255.6	253.8	255.1	257.8
47.5°	2173.6	1650.1	656.9	343.0	283.8	263.1	250.3	245.6	242.6	242.0	244.1
50°	2296.9	1715.8	661.4	333.5	274.3	253.8	241.4	236.1	231.6	228.9	230.4
52.5°	2386.7	1757.1	665.6	329.4	267.0	243.8	231.6	226.6	220.6	216.1	216.1
55°	2451.8	1766.6	656.4	326.1	261.3	232.8	220.6	215.8	209.9	204.8	204.2
57.5°	2477.4	1739.9	622.2	321.4	257.4	222.4	208.9	205.4	200.4	194.4	194.1
60°	2442.9	1657.2	556.1	311.2	252.4	213.7	197.4	195.0	192.6	187.0	186.7
62.5°	2304.4	1475.9	470.9	290.7	242.3	204.5	186.7	187.9	188.2	184.3	183.7
65°	2053.2	1226.8	387.6	264.0	227.1	193.5	175.7	181.4	184.6	184.0	183.1
67.5°	1688.2	954.8	328.5	235.7	207.2	178.4	163.8	170.3	173.0	175.1	174.5
70°	1252.9	673.3	271.7	206.0	183.1	160.5	148.3	151.6	149.8	152.2	153.1
72.5°	698.6	404.0	221.4	176.2	158.2	139.7	131.1	130.5	126.6	126.6	126.6
74°	419.1	296.3	194.7	157.8	143.0	126.0	118.6	116.0	112.3	112.6	112.3
75°	337.1	254.8	178.7	145.7	132.3	118.0	110.6	107.0	104.3	104.3	104.1
77.5°	212.9	193.5	143.8	116.0	105.8	97.2	92.1	87.4	87.4	87.1	86.8
80°	160.8	154.0	112.1	87.7	81.1	74.6	71.4	69.3	69.3	70.1	69.9
82.5°	110.3	116.0	78.8	61.2	57.9	53.2	52.6	52.9	52.0	50.9	50.5
85°	80.6	87.1	53.2	38.7	35.4	32.4	34.7	36.0	34.5	31.8	30.6
87.5°	30.9	57.1	28.5	16.0	14.9	12.8	14.9	15.5	16.7	13.0	13.4
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)