

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: P648292

Luminaire Tested: **GALN-SA2B-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9168.9 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

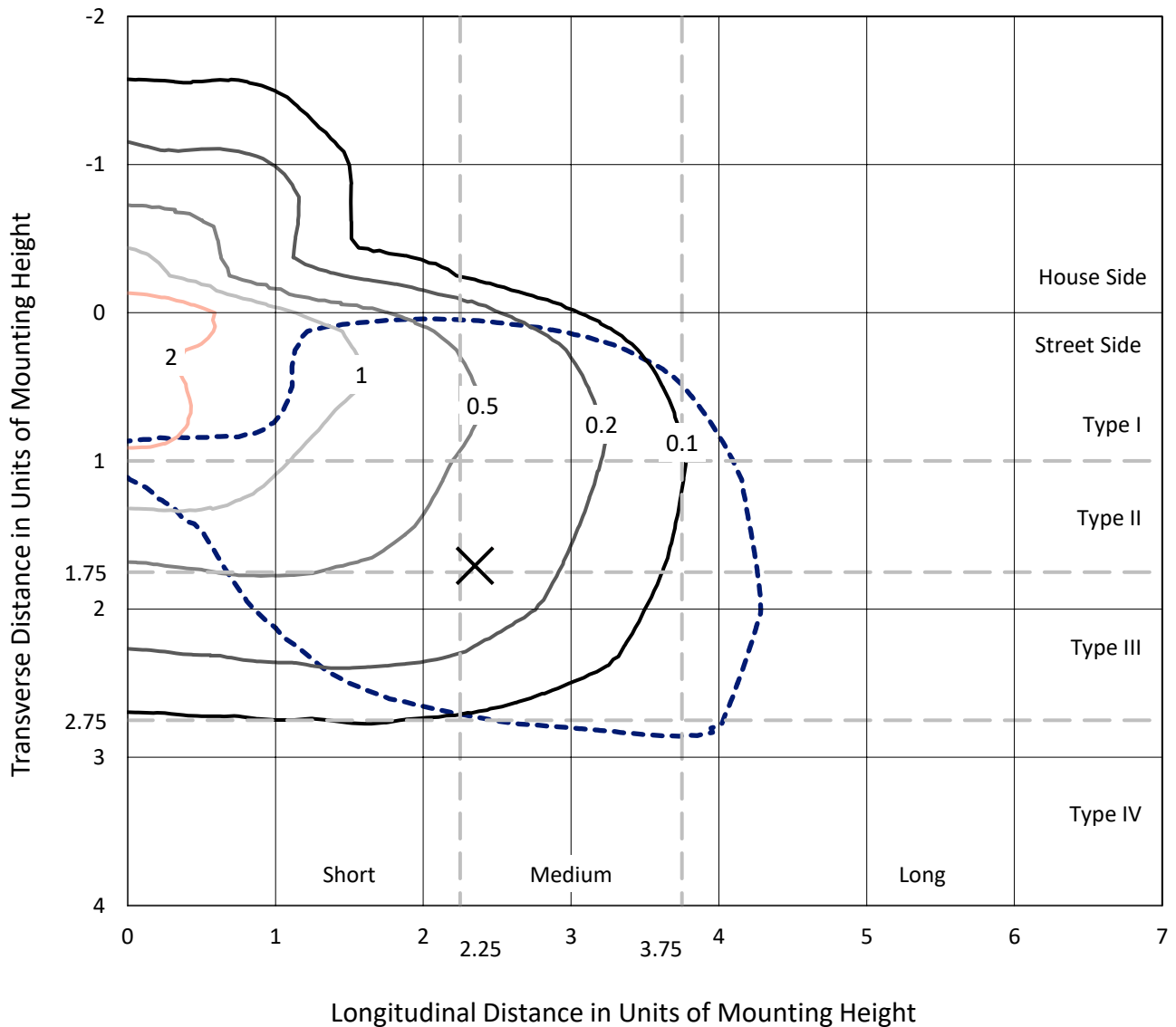
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

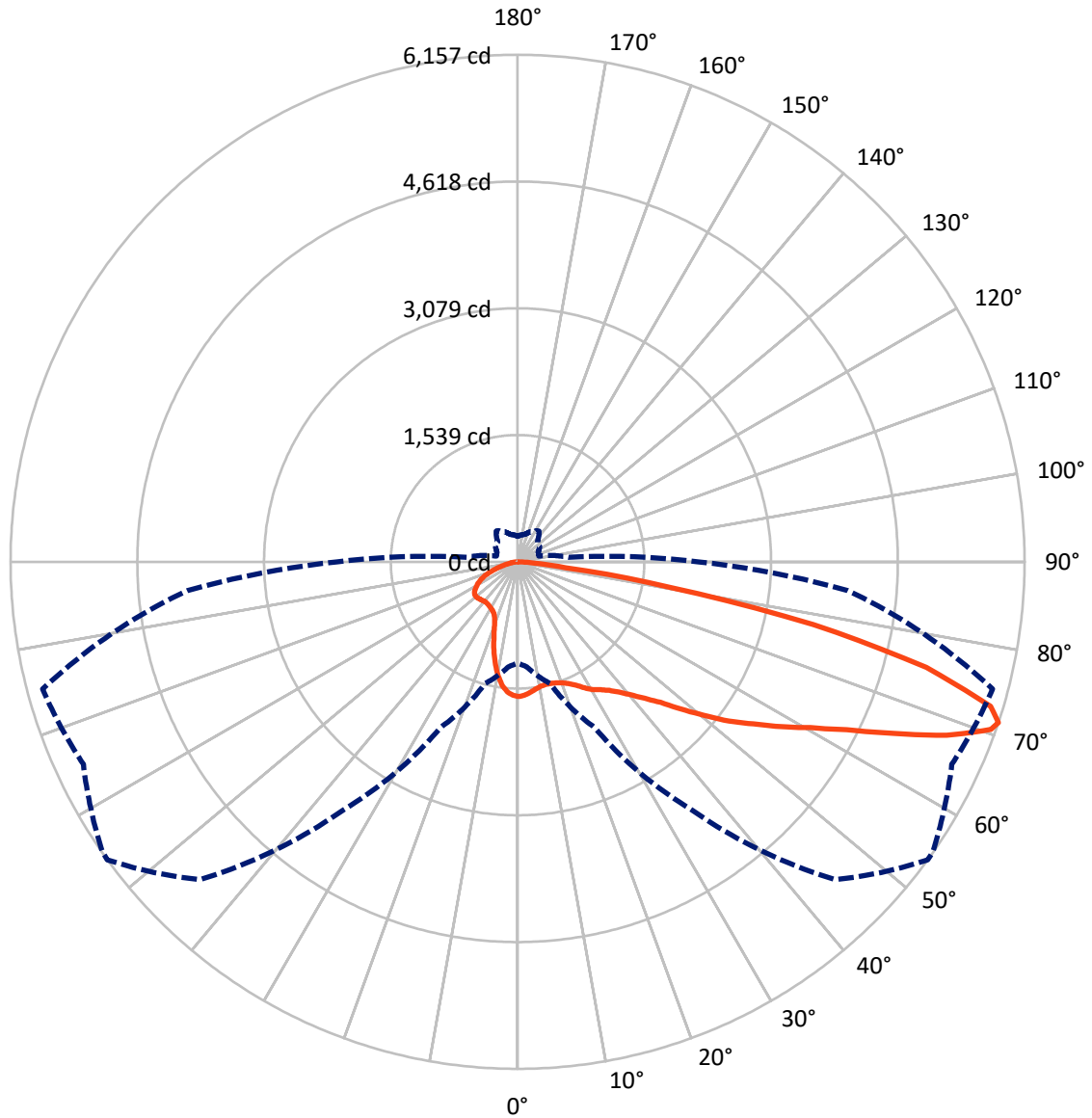
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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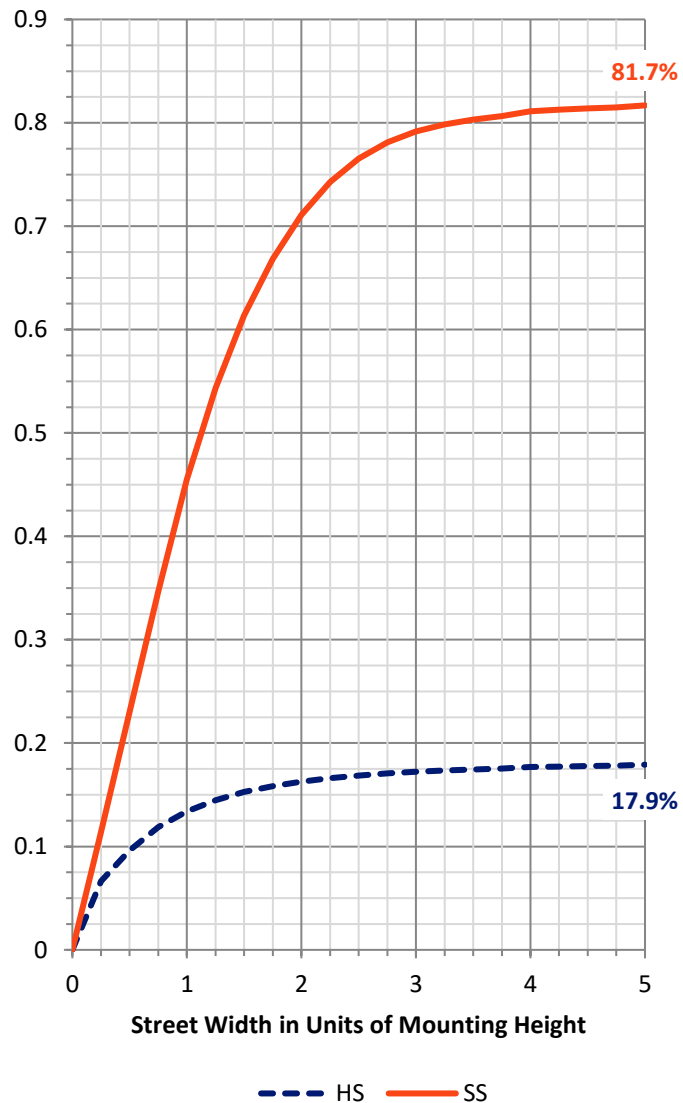
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1655.4	0.0	1655.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7513.5	0.0	7513.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	9168.9	0.0	9168.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	1.6
10°-20°	384.9	4.2
20°-30°	640.9	7.0
30°-40°	947.7	10.3
40°-50°	1334.9	14.6
50°-60°	1787.5	19.5
60°-70°	2253.0	24.6
70°-80°	1538.8	16.8
80°-90°	135.3	1.5
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°	9168.9	100.0
0°-180°	9168.9	100.0

Coefficient of Utilization



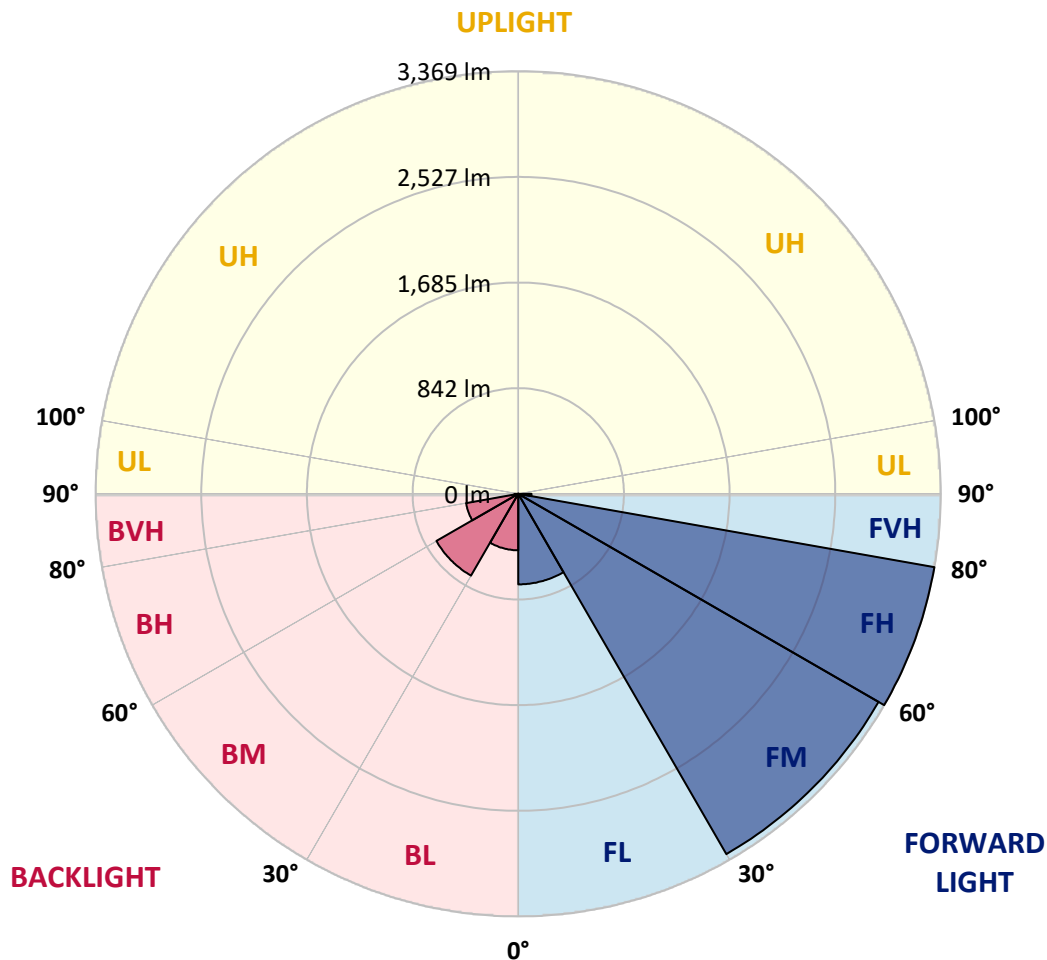
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.7	7.9			
FM (30°-60°)	3317.0	36.2			
FH (60°-80°)	3369.0	36.7			G2/5000
FVH (80°-90°)	105.8	1.2			G2/225
BL (0°-30°)	449.9	4.9	B1/500		
BM (30°-60°)	753.2	8.2	B1/1000		
BH (60°-80°)	422.8	4.6	B1/500		G1/500
BVH (80°-90°)	29.5	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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1635.8	1635.8	1635.8	1635.8	1635.8	1635.8	1635.8	1635.8	1635.8	1635.8	1635.8
2.5°	1580.4	1587.8	1589.8	1594.7	1605.2	1613.6	1622.0	1621.0	1632.9	1637.9	1642.3
5°	1510.1	1512.1	1519.5	1529.4	1547.7	1571.0	1593.8	1594.3	1623.5	1646.8	1658.2
7.5°	1458.6	1465.0	1469.9	1480.3	1499.7	1525.0	1561.1	1564.0	1616.0	1662.2	1686.4
10°	1424.9	1432.3	1437.7	1450.7	1469.9	1498.2	1537.3	1542.7	1610.6	1686.4	1729.0
12.5°	1394.2	1401.6	1406.6	1423.4	1448.6	1483.3	1527.4	1533.8	1612.6	1714.6	1775.5
15°	1413.0	1419.0	1417.0	1421.9	1438.8	1478.4	1531.4	1537.8	1620.0	1741.9	1821.6
17.5°	1496.7	1501.6	1485.3	1466.5	1458.6	1487.8	1543.8	1550.7	1634.9	1770.1	1868.6
20°	1620.0	1633.4	1597.7	1555.7	1517.5	1521.4	1569.5	1577.0	1655.7	1798.3	1916.7
22.5°	1780.5	1790.4	1746.8	1677.5	1607.2	1571.0	1608.1	1612.6	1686.9	1835.0	1969.2
25°	1969.2	1975.1	1914.7	1825.6	1724.0	1655.7	1661.1	1669.0	1738.4	1876.5	2015.8
27.5°	2152.5	2171.3	2101.4	1992.5	1858.8	1744.8	1734.0	1738.9	1794.3	1899.9	2047.9
30°	2369.8	2368.3	2294.6	2168.3	1996.9	1841.9	1802.8	1801.8	1824.5	1911.2	2071.2
32.5°	2543.2	2563.5	2491.2	2353.5	2154.9	1942.5	1850.3	1848.3	1847.9	1931.0	2105.9
35°	2740.3	2743.3	2676.9	2538.3	2325.7	2068.8	1916.7	1906.8	1895.4	1973.6	2152.9
37.5°	2916.7	2930.5	2869.6	2714.0	2493.7	2200.0	2007.8	2001.3	1966.7	2047.5	2228.2
40°	3054.3	3064.7	3028.1	2880.0	2659.1	2341.6	2123.7	2111.8	2069.7	2168.3	2328.7
42.5°	3099.4	3120.7	3135.1	3062.2	2849.3	2509.5	2266.3	2251.5	2219.3	2351.5	2444.7
45°	3102.9	3136.5	3212.3	3215.8	3040.5	2710.6	2432.8	2422.4	2419.9	2586.3	2607.6
47.5°	3076.6	3110.8	3238.1	3306.9	3210.8	2913.7	2672.9	2656.6	2658.1	2876.5	2790.4
50°	3013.2	3053.9	3208.3	3365.3	3344.0	3124.6	2926.5	2921.1	2951.8	3207.9	2980.0
52.5°	2893.9	2942.9	3177.6	3402.0	3443.1	3306.5	3214.8	3199.4	3277.2	3567.4	3187.5
55°	2563.5	2637.3	3065.2	3422.3	3537.2	3480.3	3474.3	3502.0	3605.1	3959.7	3415.8
57.5°	2391.1	2446.6	2821.1	3425.8	3656.1	3682.3	3777.4	3784.3	3964.6	4376.2	3673.9
60°	2297.1	2346.1	2687.3	3403.0	3822.0	3932.5	4087.4	4112.2	4315.7	4827.4	3941.4
62.5°	2214.9	2256.9	2607.1	3324.2	4009.2	4303.4	4489.1	4501.0	4714.4	5325.7	4205.3
65°	2021.2	2069.2	2445.6	3245.5	4170.6	4767.0	5022.0	5008.1	5138.9	5755.5	4370.8
67.5°	1760.2	1821.1	2144.0	2973.6	4250.4	5273.6	5622.3	5604.9	5557.9	6037.3	4418.3
70°	1426.9	1459.6	1758.2	2503.6	3931.9	5539.6	6096.3	6078.0	5817.5	6074.4	4193.4
71°	1227.7	1278.8	1530.8	2223.7	3666.9	5458.4	6157.2	6152.3	5817.9	5971.9	4024.1
72.5°	958.3	989.6	1212.4	1723.1	3116.7	4996.8	6006.6	6025.4	5691.6	5687.2	3674.9
75°	606.2	620.1	760.8	1014.3	1710.2	3538.7	5127.6	5178.5	5053.7	4655.0	2732.9
77.5°	352.1	370.0	455.6	597.8	738.9	1920.6	3669.0	3724.4	3511.4	2563.0	1118.8
80°	205.1	224.9	300.1	347.2	339.3	712.7	1868.2	1962.7	1520.5	647.3	314.0
82.5°	113.9	127.3	211.0	211.5	180.8	232.8	587.9	615.1	433.9	261.0	128.3
85°	82.7	93.6	136.2	123.3	86.7	100.1	204.5	214.5	175.3	109.9	41.6
87.5°	29.2	41.6	74.8	59.4	23.8	20.8	59.0	48.1	44.6	30.7	9.4
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°	1635.8	1635.8	1635.8	1635.8	1635.8	1635.8	1635.8	1635.8	1635.8	1635.8	1635.8
2.5°	1644.8	1645.8	1640.9	1631.9	1623.0	1611.6	1598.7	1588.8	1584.4	1583.9	1583.4
5°	1662.6	1665.1	1646.3	1618.5	1587.8	1550.2	1518.0	1481.4	1472.0	1457.1	1461.5
7.5°	1691.4	1689.9	1652.7	1593.8	1522.0	1442.2	1374.9	1335.7	1295.2	1283.7	1284.2
10°	1732.5	1723.1	1652.7	1543.3	1423.4	1305.0	1210.9	1151.5	1119.3	1092.6	1082.7
12.5°	1776.0	1752.3	1636.9	1472.4	1296.6	1151.5	1050.5	970.2	949.5	927.6	928.2
15°	1817.7	1778.0	1605.7	1372.9	1159.9	987.6	889.5	841.5	835.0	837.5	837.0
17.5°	1855.2	1796.4	1558.1	1262.0	1000.4	846.9	794.9	798.3	815.7	828.1	829.6
20°	1893.5	1807.2	1487.3	1113.3	849.9	761.7	763.7	790.9	817.2	834.1	836.5
22.5°	1929.5	1812.2	1404.1	969.7	741.0	725.6	754.8	784.0	809.8	826.1	828.6
25°	1953.4	1800.8	1286.2	819.6	687.4	712.7	743.4	768.1	790.0	806.8	810.7
27.5°	1959.8	1764.2	1140.1	698.4	662.7	700.3	728.5	746.9	763.7	779.6	782.5
30°	1956.3	1710.2	979.6	627.0	648.3	686.0	707.8	721.1	741.4	753.8	756.3
32.5°	1950.8	1647.3	812.2	588.9	636.4	672.6	685.4	697.3	696.9	691.9	695.4
35°	1952.9	1572.0	676.5	566.1	626.0	662.7	673.5	658.7	616.1	614.1	612.1
37.5°	1963.2	1497.7	578.0	550.2	620.6	661.2	667.1	598.8	561.2	543.8	539.3
40°	1990.0	1411.0	513.1	538.4	620.1	672.6	637.9	568.5	496.3	462.6	460.1
42.5°	2025.6	1325.9	473.5	531.0	626.0	689.9	626.0	525.9	447.2	427.4	424.5
45°	2078.6	1228.3	451.7	527.4	634.9	696.3	622.1	494.8	427.4	411.5	411.5
47.5°	2138.6	1135.2	439.8	525.0	646.3	691.9	586.9	484.8	418.0	420.0	429.4
50°	2198.0	1054.5	430.9	519.5	656.2	689.4	572.5	484.4	420.5	445.8	462.6
52.5°	2266.9	997.5	420.0	510.6	656.2	673.5	568.1	494.3	427.4	434.9	442.2
55°	2350.0	979.6	406.1	491.3	644.3	633.9	565.6	508.6	432.4	415.1	418.0
57.5°	2460.0	1008.3	392.8	467.1	617.1	592.8	564.6	512.6	420.9	406.6	403.6
60°	2587.8	1065.3	388.8	442.2	580.0	557.7	558.7	501.2	405.1	390.2	392.8
62.5°	2677.4	1099.5	386.3	423.4	539.3	519.1	544.3	487.3	398.2	385.3	387.8
65°	2677.4	1057.9	363.5	394.7	486.9	472.5	527.0	470.0	389.3	374.4	371.9
67.5°	2575.9	936.5	328.9	351.6	428.9	419.5	502.7	449.2	375.9	364.5	358.5
70°	2311.4	710.2	285.2	301.1	355.6	364.0	471.5	420.9	353.6	339.7	330.8
71°	2195.1	618.6	266.9	275.4	327.4	339.7	456.6	409.1	343.7	323.9	308.0
72.5°	1970.7	521.0	239.2	242.7	279.8	302.1	425.4	386.3	324.9	296.7	278.8
75°	1497.2	380.4	192.7	190.7	207.0	239.7	360.0	344.2	284.8	246.6	236.2
77.5°	646.8	207.0	144.2	145.6	140.6	181.7	283.3	295.7	244.1	200.6	191.2
80°	196.1	119.3	98.6	100.5	94.1	121.8	199.6	231.8	196.1	156.0	143.1
82.5°	100.5	71.3	67.3	66.4	59.9	68.8	120.8	158.5	140.2	97.6	86.2
85°	43.6	38.1	33.2	32.2	28.3	24.7	43.1	79.2	74.3	54.5	52.0
87.5°	10.9	9.9	6.4	6.0	3.4	0.5	0.0	0.0	0.0	0.0	0.0
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)