

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: P382875

Luminaire Tested: **GLEON-SA2B-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10957.8 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

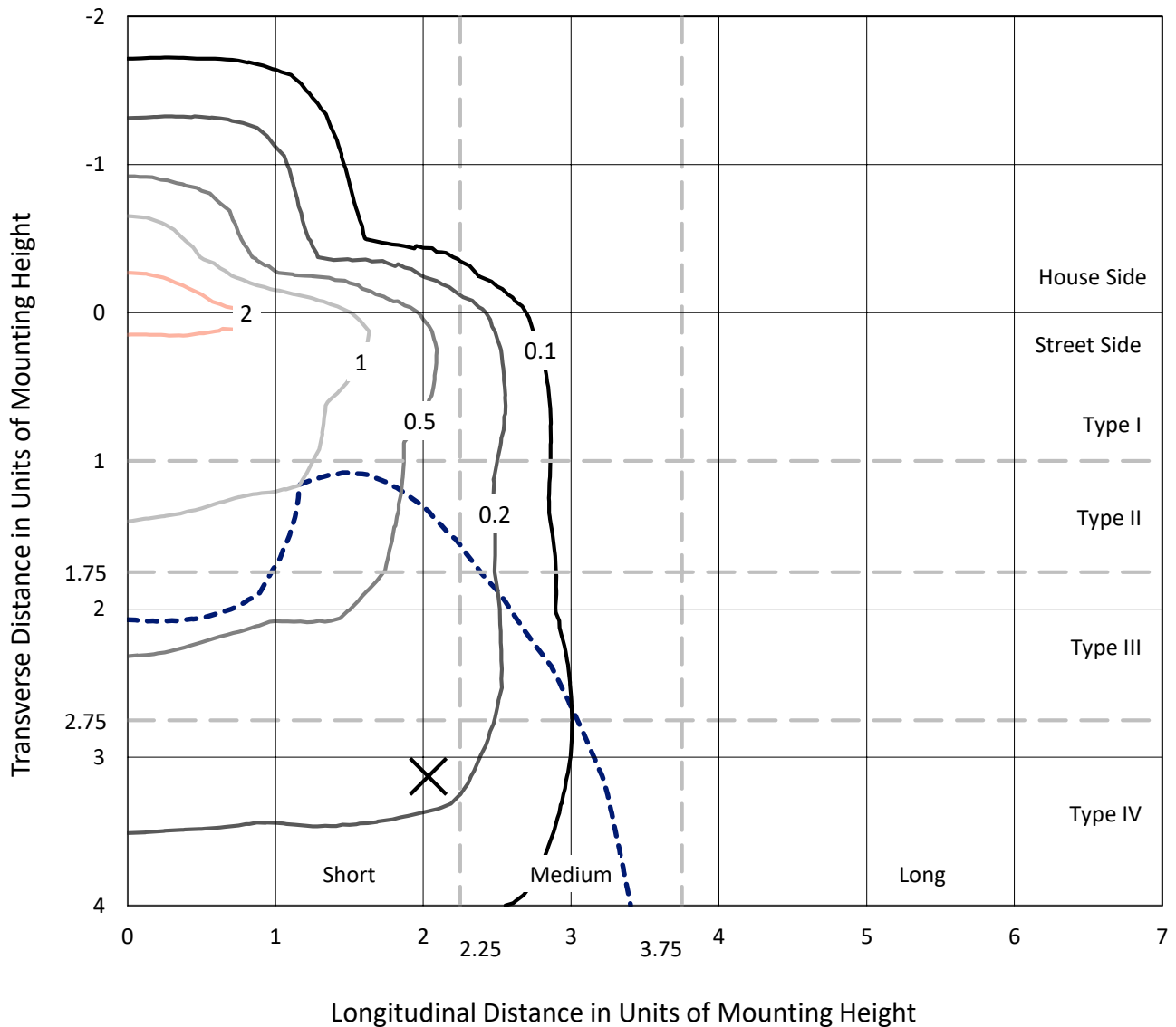
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

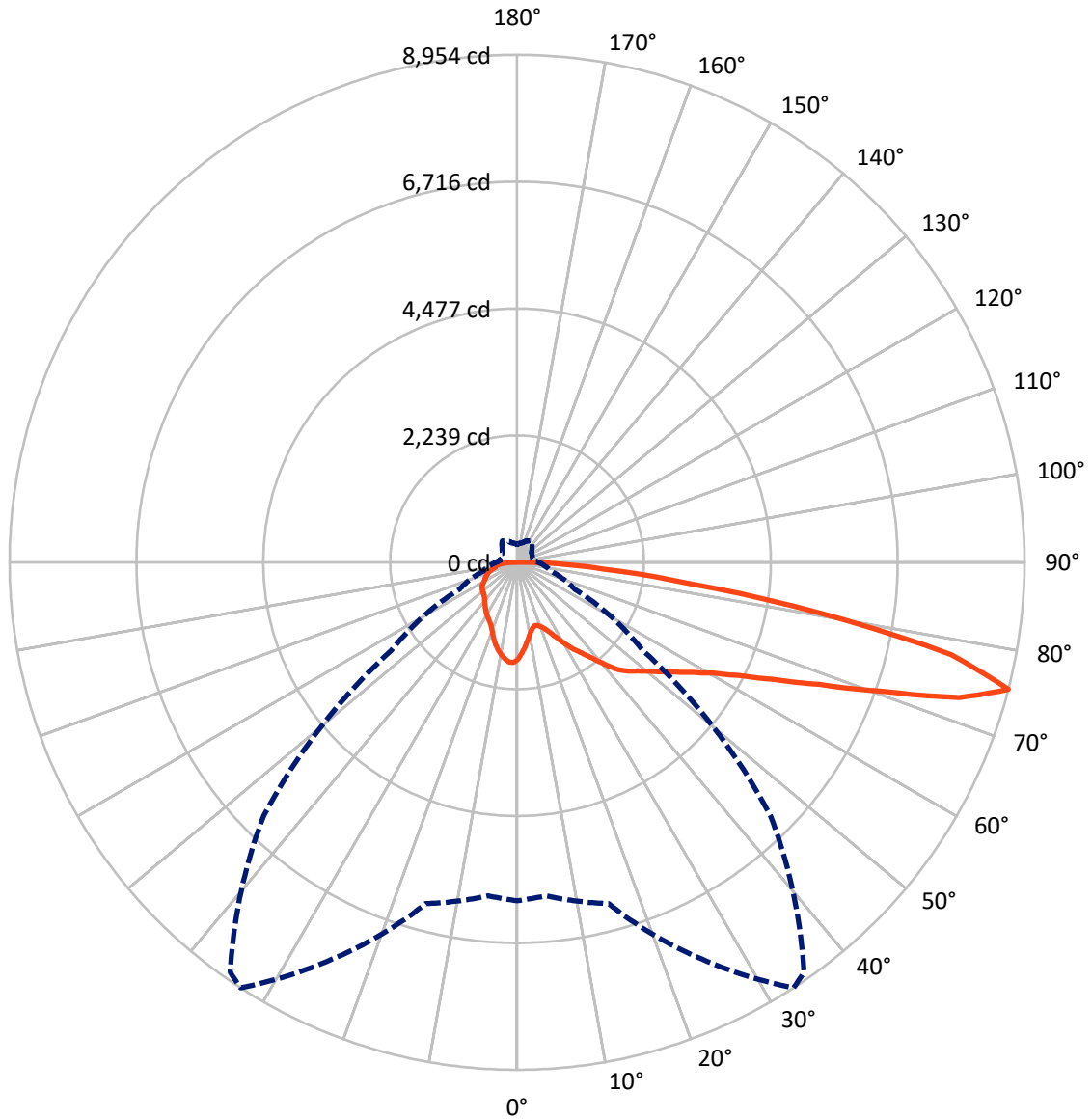
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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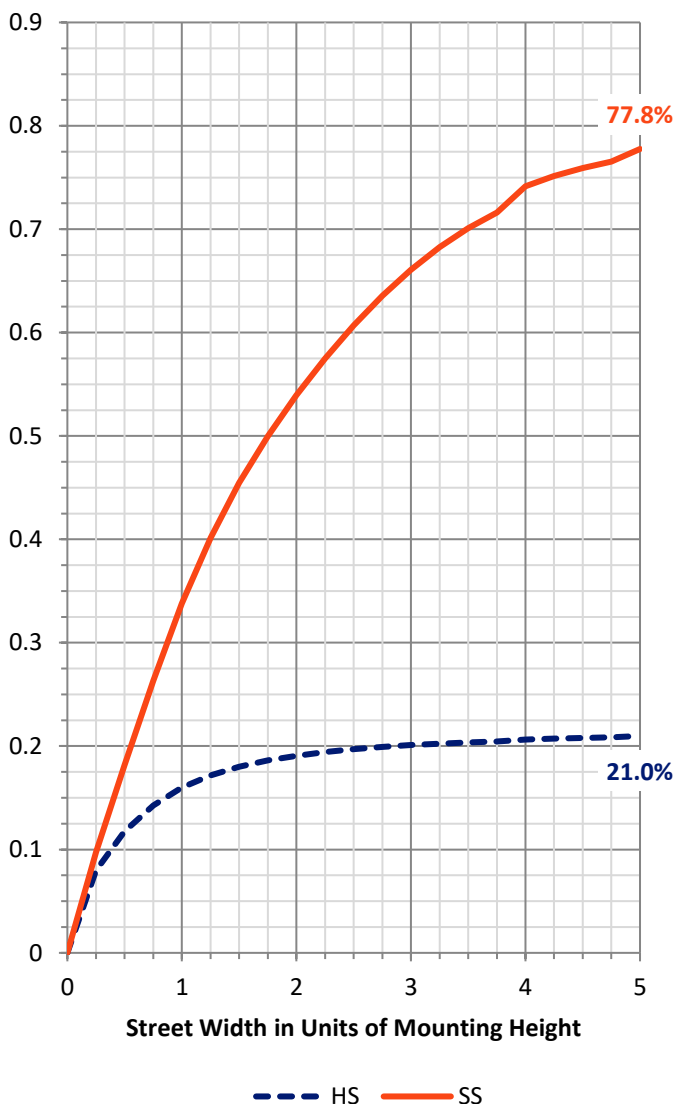
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2352.9	0.0	2352.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	8604.9	0.0	8604.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	10957.8	0.0	10957.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	1.4
10°-20°	419.5	3.8
20°-30°	685.2	6.3
30°-40°	1020.4	9.3
40°-50°	1463.5	13.4
50°-60°	2009.1	18.3
60°-70°	2515.3	23.0
70°-80°	2275.5	20.8
80°-90°	414.5	3.8
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°	10957.8	100.0
0°-180°	10957.8	100.0

Coefficient of Utilization



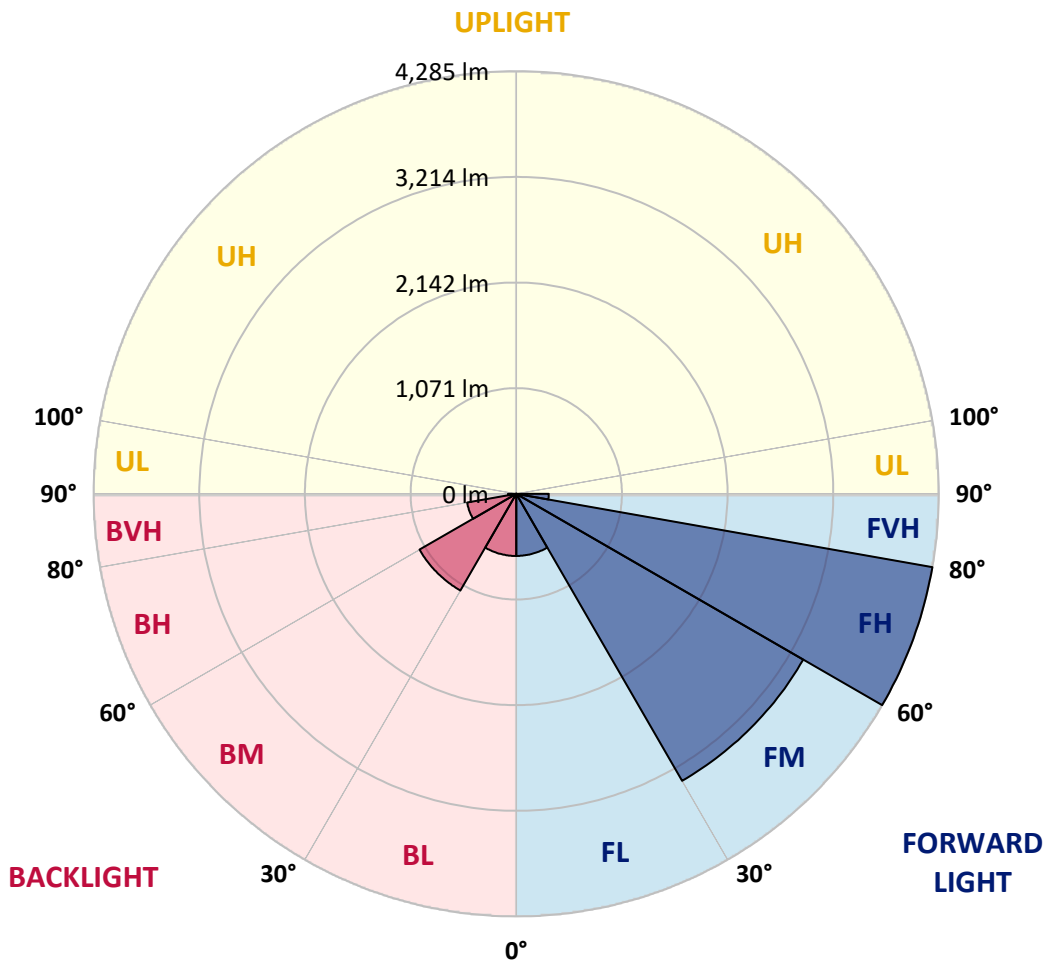
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	629.4	5.7			
FM (30°-60°)	3360.5	30.7			
FH (60°-80°)	4284.9	39.1			G2/5000
FVH (80°-90°)	330.1	3.0			G3/500
BL (0°-30°)	630.2	5.8	B2/1000		
BM (30°-60°)	1132.4	10.3	B2/2500		
BH (60°-80°)	505.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	84.4	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7
2.5°	1590.5	1584.5	1595.8	1597.3	1607.2	1610.9	1624.5	1645.8	1663.2	1683.2	1701.4
5°	1446.3	1442.1	1458.1	1469.4	1490.9	1500.1	1532.2	1577.3	1617.4	1662.8	1704.1
7.5°	1309.3	1307.0	1324.8	1350.6	1375.5	1388.0	1443.6	1509.1	1576.1	1649.6	1712.7
10°	1193.9	1193.0	1210.1	1235.4	1272.2	1286.2	1358.1	1444.4	1538.3	1639.3	1727.6
12.5°	1129.1	1131.7	1139.7	1160.9	1195.0	1209.0	1288.8	1390.2	1506.5	1635.9	1749.1
15°	1145.0	1149.2	1135.6	1134.8	1159.0	1170.0	1244.9	1351.7	1483.8	1641.6	1780.6
17.5°	1212.8	1213.5	1177.6	1154.8	1169.6	1175.2	1231.3	1329.7	1470.5	1654.4	1819.9
20°	1308.2	1306.2	1242.7	1204.8	1212.8	1214.3	1250.6	1330.1	1469.4	1676.8	1871.0
22.5°	1434.6	1420.5	1335.0	1283.5	1281.6	1279.4	1300.2	1358.1	1486.0	1713.1	1931.9
25°	1599.6	1586.3	1468.6	1398.3	1383.1	1377.4	1380.5	1417.9	1519.0	1752.1	2000.0
27.5°	1783.2	1760.1	1646.5	1547.0	1515.5	1507.6	1489.5	1502.3	1554.9	1789.6	2081.1
30°	1936.9	1924.4	1825.2	1707.1	1670.0	1658.6	1610.9	1597.0	1606.8	1840.7	2183.3
32.5°	2022.8	2014.5	1954.3	1858.9	1824.4	1808.5	1741.2	1713.1	1690.0	1921.3	2321.8
35°	2126.8	2121.6	2085.2	2016.0	1964.8	1948.2	1896.0	1866.8	1807.4	2032.3	2500.8
37.5°	2259.4	2253.7	2254.4	2198.4	2137.4	2122.0	2087.5	2056.9	1959.5	2178.0	2695.3
40°	2409.3	2398.3	2394.1	2391.5	2352.8	2344.1	2326.0	2284.3	2150.3	2352.1	2887.3
42.5°	2634.8	2595.9	2512.6	2544.0	2582.2	2577.7	2592.4	2532.6	2362.3	2557.9	3074.7
45°	2852.5	2788.5	2644.7	2651.5	2735.1	2760.5	2871.0	2828.6	2592.0	2783.6	3268.4
47.5°	2951.6	2903.2	2780.9	2781.3	2864.2	2916.8	3159.1	3128.8	2833.6	3039.8	3505.0
50°	3062.6	3014.1	2904.3	2945.6	3017.8	3073.9	3437.2	3421.8	3063.3	3320.3	3788.5
52.5°	3183.7	3101.5	3031.9	3105.7	3207.1	3272.2	3715.9	3673.5	3274.1	3602.7	4114.5
55°	3185.1	3162.9	3215.8	3269.9	3421.8	3501.6	4007.7	3895.6	3446.0	3880.1	4379.8
57.5°	3366.5	3330.2	3442.5	3467.5	3665.9	3756.0	4298.0	4089.0	3620.8	4092.8	4522.8
60°	3606.5	3575.5	3667.4	3733.3	3967.9	4088.3	4608.0	4287.8	3758.2	4253.4	4516.0
62.5°	4020.9	3985.7	3984.6	4076.9	4393.0	4533.1	4955.8	4482.7	3812.7	4285.1	4323.3
65°	4627.6	4571.7	4466.0	4510.0	4980.1	5119.8	5344.6	4623.9	3740.8	4114.8	3827.2
67.5°	5218.2	5216.3	5086.4	5176.5	5755.3	5867.4	5787.4	4637.9	3516.4	3521.7	2946.7
70°	5806.7	5814.3	5792.4	6105.7	6802.6	6919.2	6259.1	4449.8	3011.8	2543.2	1765.4
72.5°	6273.0	6271.2	6381.7	7189.9	8161.8	8135.8	6656.5	3879.7	2162.4	1372.8	843.7
75°	5971.0	5905.2	6234.5	7726.5	8954.0	8826.5	6318.5	2706.3	1122.3	624.9	454.2
77.5°	3894.5	3956.9	4440.3	6382.9	7832.2	7677.0	4635.7	1262.7	528.7	410.0	329.3
80°	1410.4	1476.2	2079.1	3615.5	5396.1	5370.7	2282.8	519.0	357.7	309.6	240.0
82.5°	485.2	509.5	820.2	1605.6	3046.6	3160.2	858.9	294.8	260.0	219.6	164.2
85°	190.4	218.0	375.1	772.5	1536.8	1548.1	347.8	176.3	180.9	143.8	90.1
87.5°	72.3	87.8	179.4	358.8	701.7	644.6	124.5	84.0	102.9	85.5	42.8
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°	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7	1712.7
2.5°	1715.4	1723.4	1740.0	1751.4	1763.5	1766.9	1768.4	1771.4	1774.5	1773.3	1773.7
5°	1726.0	1741.5	1768.4	1779.7	1785.0	1779.0	1767.2	1757.8	1751.0	1747.2	1746.1
7.5°	1743.4	1765.4	1794.2	1792.3	1780.1	1753.3	1723.0	1700.3	1681.4	1674.5	1670.7
10°	1766.5	1792.3	1812.3	1790.7	1755.5	1709.0	1663.6	1628.3	1599.9	1589.0	1587.1
12.5°	1796.0	1822.2	1825.9	1780.1	1721.9	1658.2	1596.6	1550.0	1507.6	1494.0	1490.9
15°	1834.3	1858.9	1835.4	1761.6	1680.2	1594.6	1514.8	1451.6	1406.9	1390.2	1384.2
17.5°	1874.4	1897.8	1837.3	1730.9	1625.7	1519.4	1419.0	1354.3	1303.2	1284.0	1281.6
20°	1922.4	1933.1	1829.4	1687.0	1550.7	1421.7	1316.1	1255.2	1227.9	1214.3	1212.8
22.5°	1981.9	1970.5	1811.2	1627.6	1455.7	1308.9	1222.9	1194.6	1187.7	1184.7	1185.9
25°	2044.7	2009.9	1784.3	1550.0	1335.7	1196.1	1154.8	1162.8	1171.9	1170.8	1170.8
27.5°	2114.0	2050.1	1743.0	1447.1	1202.9	1103.7	1108.6	1137.8	1151.4	1151.0	1150.6
30°	2202.9	2095.4	1690.4	1323.3	1078.7	1038.7	1068.6	1104.2	1122.7	1121.9	1122.3
32.5°	2312.3	2145.4	1618.9	1185.1	989.0	990.6	1025.0	1060.2	1081.8	1079.8	1080.3
35°	2440.3	2201.4	1522.0	1048.8	929.6	952.3	979.6	1004.2	1024.6	1022.0	1019.3
37.5°	2579.5	2256.3	1393.3	927.0	881.2	916.7	939.5	943.7	953.1	946.3	941.3
40°	2712.0	2298.3	1227.5	827.0	832.3	886.5	901.3	884.6	867.6	865.3	858.4
42.5°	2827.5	2312.3	1059.8	747.2	780.8	854.7	863.7	829.0	798.2	783.9	777.8
45°	2949.4	2317.2	903.5	680.2	731.3	826.3	836.2	789.6	746.4	715.4	705.2
47.5°	3108.8	2352.8	782.0	630.6	693.4	807.4	821.3	758.2	702.1	657.9	648.4
50°	3317.2	2423.2	683.2	592.7	668.9	794.9	810.7	727.5	665.8	612.4	603.0
52.5°	3548.9	2488.0	603.4	562.1	645.0	772.9	797.1	705.6	631.8	570.4	560.2
55°	3710.9	2438.3	539.0	530.3	614.0	741.5	778.2	687.0	582.9	529.5	520.5
57.5°	3741.9	2268.8	490.2	497.4	576.4	702.1	749.1	645.7	556.4	511.8	502.3
60°	3657.2	2032.6	453.8	467.1	536.4	652.5	694.6	616.6	531.1	492.8	484.9
62.5°	3444.1	1790.7	426.9	439.9	498.8	602.2	660.5	585.9	505.3	471.3	463.3
65°	3013.7	1503.4	401.2	415.6	464.1	558.6	629.8	557.5	479.9	453.8	446.3
67.5°	2274.8	1126.1	377.0	389.9	433.0	520.8	596.6	529.5	455.3	438.7	429.6
70°	1339.6	705.2	349.3	363.0	400.5	481.4	561.0	498.8	424.7	417.1	405.4
72.5°	623.4	424.3	317.9	331.2	359.6	428.9	515.1	458.8	388.4	371.7	355.8
75°	372.1	310.4	280.9	292.6	312.6	372.8	457.6	417.9	353.9	331.9	315.3
77.5°	278.2	237.4	240.0	252.4	268.8	326.3	405.4	385.7	327.4	310.4	299.0
80°	200.2	180.2	195.7	209.3	226.4	296.8	388.4	356.6	296.0	273.3	262.7
82.5°	133.6	129.5	147.3	161.3	177.9	259.6	364.9	312.3	252.8	224.0	200.7
85°	73.8	78.0	99.2	105.3	119.6	182.9	299.0	251.0	190.4	153.3	146.4
87.5°	30.6	36.0	53.4	51.5	63.6	109.0	196.8	151.4	121.1	90.5	70.4
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)