

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: P318836

Luminaire Tested: **GLEON-SA2B-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318836
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-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 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: 8647 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

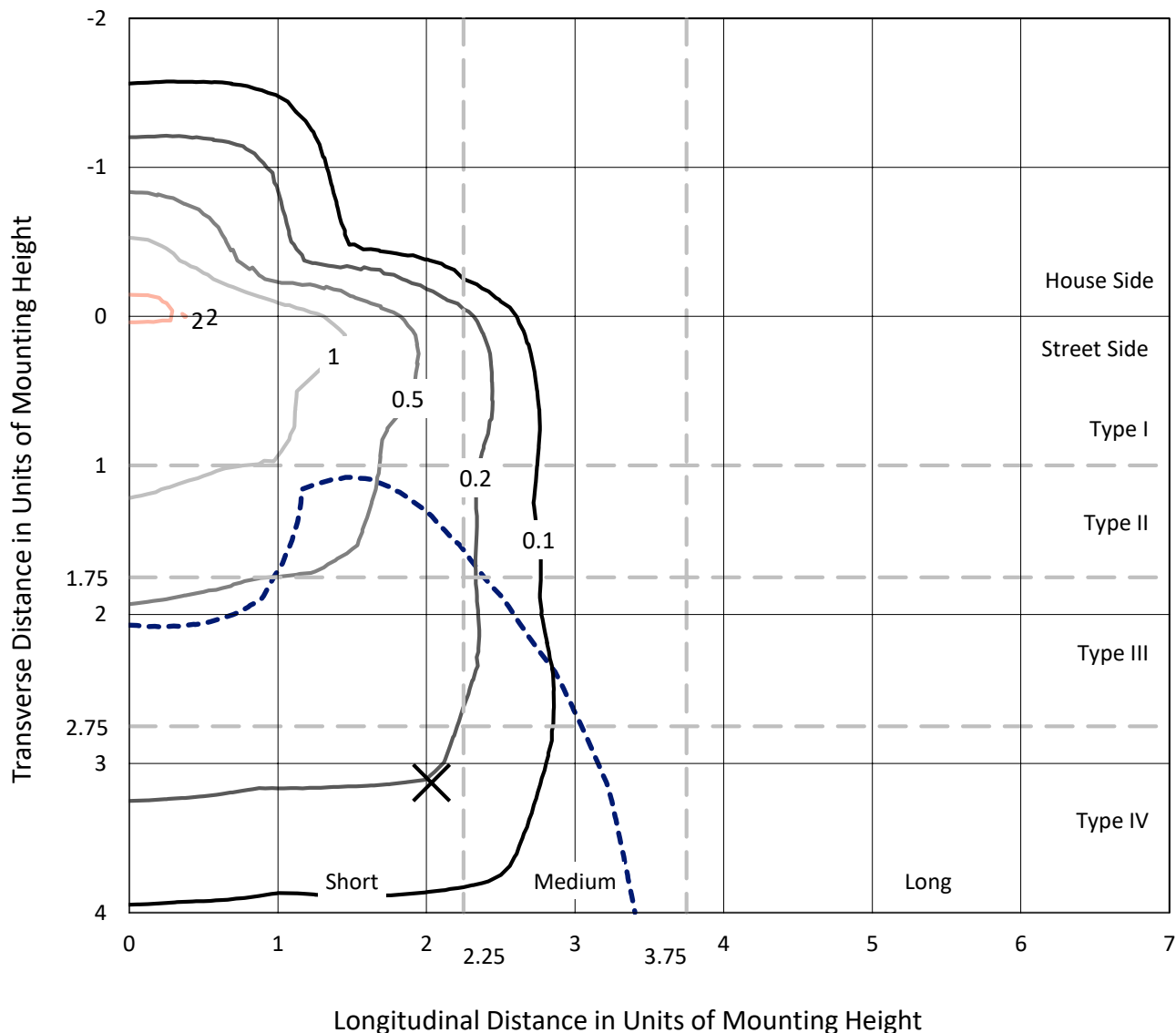
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

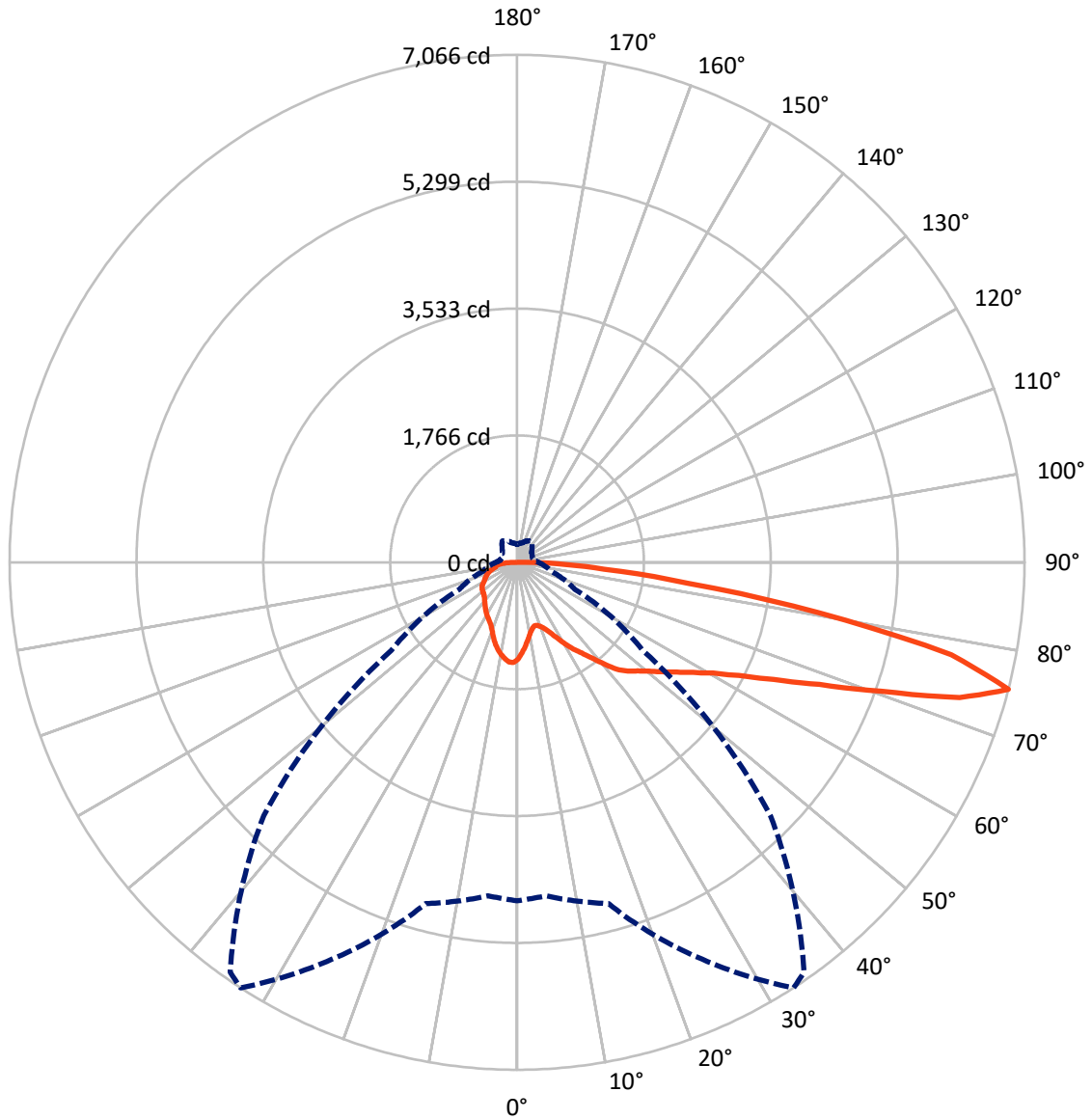
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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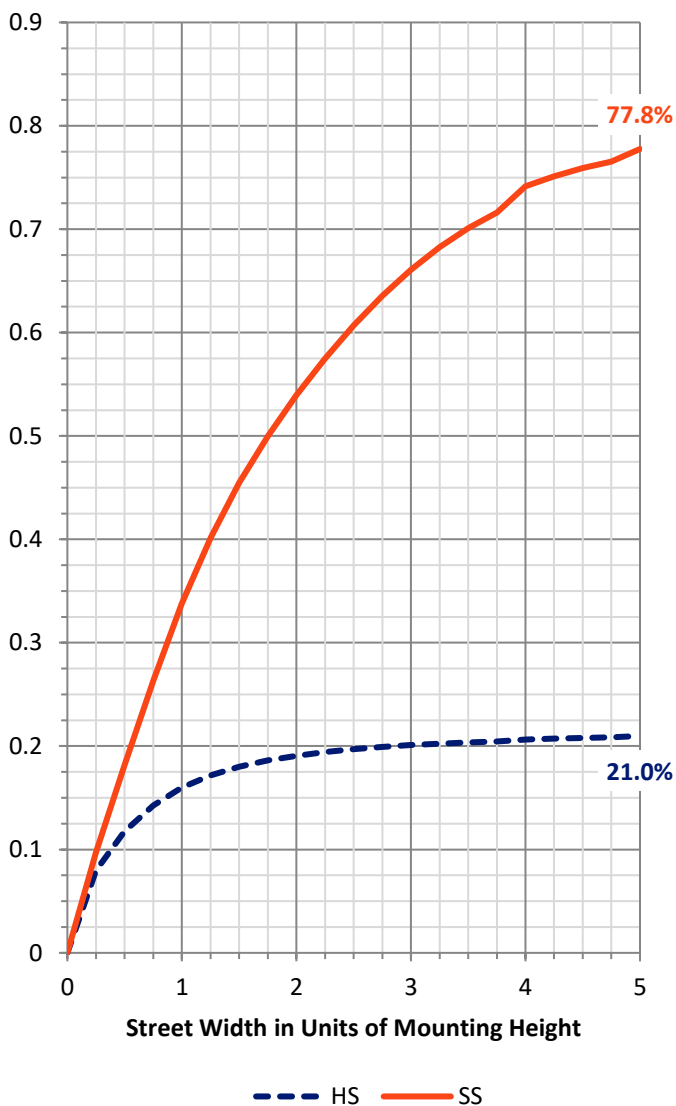
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1856.7	0.0	1856.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6790.3	0.0	6790.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	8647.0	0.0	8647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	1.4
10°-20°	331.1	3.8
20°-30°	540.7	6.3
30°-40°	805.2	9.3
40°-50°	1154.8	13.4
50°-60°	1585.4	18.3
60°-70°	1984.9	23.0
70°-80°	1795.6	20.8
80°-90°	327.1	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°	8647.0	100.0
0°-180°	8647.0	100.0

Coefficient of Utilization



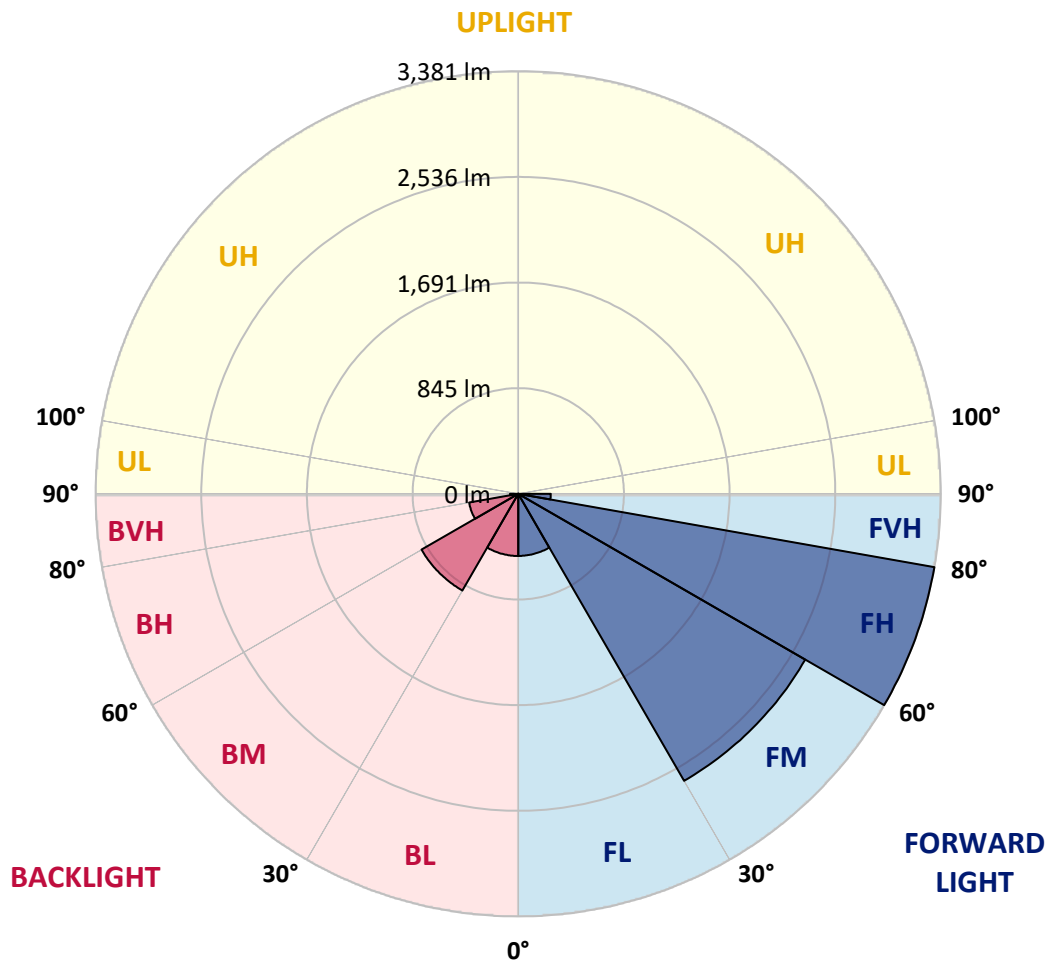
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.6	5.7			
FM (30°-60°)	2651.9	30.7			
FH (60°-80°)	3381.3	39.1			G2/5000
FVH (80°-90°)	260.5	3.0			G3/500
BL (0°-30°)	497.3	5.8	B1/500		
BM (30°-60°)	893.6	10.3	B1/1000		
BH (60°-80°)	399.2	4.6	B1/500		G1/500
BVH (80°-90°)	66.6	0.8			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°	33°	35°	45°	55°	65°	75°	85°
0°	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6
2.5°	1255.1	1250.3	1259.3	1260.5	1268.2	1271.2	1282.0	1298.7	1312.4	1328.3	1342.6
5°	1141.3	1138.0	1150.6	1159.5	1176.5	1183.7	1209.1	1244.6	1276.3	1312.1	1344.7
7.5°	1033.2	1031.4	1045.4	1065.7	1085.4	1095.3	1139.2	1190.9	1243.7	1301.7	1351.6
10°	942.1	941.5	954.9	974.9	1003.9	1015.0	1071.7	1139.8	1213.9	1293.6	1363.2
12.5°	891.0	893.1	899.4	916.1	943.0	954.0	1017.0	1097.1	1188.8	1290.9	1380.2
15°	903.5	906.8	896.1	895.5	914.6	923.3	982.4	1066.6	1170.9	1295.4	1405.0
17.5°	957.0	957.6	929.2	911.3	923.0	927.4	971.6	1049.3	1160.4	1305.6	1436.1
20°	1032.3	1030.8	980.6	950.7	957.0	958.2	986.9	1049.6	1159.5	1323.2	1476.4
22.5°	1132.0	1121.0	1053.5	1012.9	1011.4	1009.6	1026.0	1071.7	1172.7	1351.9	1524.5
25°	1262.3	1251.8	1158.9	1103.4	1091.4	1086.9	1089.3	1118.9	1198.6	1382.6	1578.3
27.5°	1407.1	1388.9	1299.3	1220.7	1196.0	1189.7	1175.3	1185.5	1227.0	1412.2	1642.2
30°	1528.4	1518.5	1440.3	1347.1	1317.8	1308.9	1271.2	1260.2	1267.9	1452.5	1722.8
32.5°	1596.2	1589.6	1542.1	1466.9	1439.7	1427.1	1374.0	1351.9	1333.7	1516.2	1832.2
35°	1678.3	1674.2	1645.5	1590.8	1550.5	1537.4	1496.1	1473.1	1426.2	1603.7	1973.4
37.5°	1782.9	1778.4	1779.0	1734.8	1686.7	1674.5	1647.3	1623.1	1546.3	1718.7	2127.0
40°	1901.2	1892.5	1889.2	1887.1	1856.7	1849.8	1835.5	1802.6	1696.9	1856.1	2278.4
42.5°	2079.2	2048.4	1982.7	2007.5	2037.7	2034.1	2045.7	1998.5	1864.1	2018.6	2426.3
45°	2250.9	2200.5	2087.0	2092.3	2158.3	2178.3	2265.6	2232.1	2045.4	2196.6	2579.2
47.5°	2329.2	2291.0	2194.5	2194.8	2260.2	2301.7	2492.9	2469.0	2236.0	2398.8	2765.9
50°	2416.7	2378.5	2291.9	2324.4	2381.5	2425.7	2712.4	2700.2	2417.3	2620.1	2989.6
52.5°	2512.3	2447.5	2392.5	2450.8	2530.8	2582.2	2932.2	2898.8	2583.7	2842.9	3246.8
55°	2513.5	2495.9	2537.7	2580.4	2700.2	2763.2	3162.5	3074.1	2719.3	3061.9	3456.1
57.5°	2656.6	2627.9	2716.6	2736.3	2892.8	2963.9	3391.6	3226.8	2857.3	3229.7	3569.1
60°	2845.9	2821.4	2894.0	2946.0	3131.2	3226.2	3636.3	3383.6	2965.7	3356.4	3563.7
62.5°	3173.0	3145.2	3144.3	3217.2	3466.6	3577.1	3910.8	3537.4	3008.7	3381.5	3411.6
65°	3651.8	3607.6	3524.2	3558.9	3929.9	4040.1	4217.5	3648.8	2952.0	3247.1	3020.1
67.5°	4117.7	4116.3	4013.8	4084.9	4541.6	4630.0	4567.0	3659.9	2774.8	2779.0	2325.3
70°	4582.2	4588.2	4570.9	4818.2	5368.1	5460.1	4939.1	3511.4	2376.7	2006.9	1393.1
72.5°	4950.2	4948.7	5035.9	5673.6	6440.7	6420.1	5252.8	3061.6	1706.4	1083.4	665.8
75°	4711.8	4659.9	4919.7	6097.2	7065.8	6965.2	4986.0	2135.6	885.6	493.1	358.4
77.5°	3073.2	3122.5	3503.9	5036.8	6180.5	6058.0	3658.1	996.4	417.3	323.5	259.9
80°	1112.9	1164.9	1640.7	2853.1	4258.1	4238.1	1801.4	409.5	282.3	244.3	189.4
82.5°	382.9	402.0	647.3	1267.0	2404.2	2493.8	677.7	232.7	205.2	173.2	129.6
85°	150.2	172.0	296.0	609.6	1212.7	1221.6	274.5	139.2	142.8	113.5	71.1
87.5°	57.0	69.3	141.6	283.2	553.8	508.7	98.3	66.3	81.2	67.5	33.8
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°	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6
2.5°	1353.7	1359.9	1373.1	1382.0	1391.6	1394.3	1395.5	1397.9	1400.3	1399.4	1399.7
5°	1362.0	1374.3	1395.5	1404.4	1408.6	1403.8	1394.6	1387.1	1381.7	1378.8	1377.9
7.5°	1375.8	1393.1	1415.8	1414.3	1404.7	1383.5	1359.6	1341.7	1326.8	1321.4	1318.4
10°	1394.0	1414.3	1430.1	1413.1	1385.3	1348.6	1312.7	1285.0	1262.6	1253.9	1252.4
12.5°	1417.3	1437.9	1440.9	1404.7	1358.7	1308.6	1259.9	1223.1	1189.7	1178.9	1176.5
15°	1447.5	1466.9	1448.4	1390.1	1325.9	1258.4	1195.4	1145.5	1110.2	1097.1	1092.3
17.5°	1479.1	1497.6	1449.8	1365.9	1282.9	1198.9	1119.8	1068.7	1028.4	1013.2	1011.4
20°	1517.0	1525.4	1443.6	1331.3	1223.7	1121.9	1038.5	990.5	969.0	958.2	957.0
22.5°	1563.9	1555.0	1429.2	1284.4	1148.8	1032.9	965.1	942.7	937.3	934.9	935.8
25°	1613.5	1586.0	1408.0	1223.1	1054.1	943.9	911.3	917.6	924.7	923.8	923.8
27.5°	1668.2	1617.7	1375.5	1141.9	949.2	871.0	874.9	897.9	908.6	908.3	908.0
30°	1738.4	1653.6	1334.0	1044.2	851.3	819.6	843.2	871.3	885.9	885.3	885.6
32.5°	1824.7	1693.0	1277.5	935.2	780.5	781.7	808.9	836.6	853.7	852.2	852.5
35°	1925.7	1737.2	1201.0	827.7	733.6	751.5	773.0	792.4	808.6	806.5	804.4
37.5°	2035.6	1780.5	1099.5	731.5	695.4	723.4	741.3	744.6	752.1	746.7	742.8
40°	2140.1	1813.6	968.7	652.6	656.8	699.5	711.2	698.0	684.6	682.8	677.4
42.5°	2231.2	1824.7	836.3	589.6	616.2	674.4	681.6	654.1	629.9	618.6	613.8
45°	2327.4	1828.6	713.0	536.7	577.1	652.0	659.8	623.1	589.0	564.5	556.5
47.5°	2453.1	1856.7	617.1	497.6	547.2	637.1	648.2	598.3	554.1	519.1	511.7
50°	2617.7	1912.2	539.1	467.7	527.8	627.3	639.8	574.1	525.4	483.3	475.8
52.5°	2800.5	1963.3	476.1	443.6	509.0	609.9	629.0	556.8	498.5	450.1	442.1
55°	2928.4	1924.2	425.3	418.5	484.5	585.1	614.1	542.1	460.0	417.9	410.7
57.5°	2952.9	1790.4	386.8	392.5	454.9	554.1	591.1	509.6	439.1	403.8	396.4
60°	2885.9	1604.0	358.1	368.6	423.2	514.9	548.1	486.6	419.1	388.9	382.6
62.5°	2717.8	1413.1	336.9	347.1	393.7	475.2	521.2	462.4	398.8	371.9	365.6
65°	2378.2	1186.4	316.6	328.0	366.2	440.9	497.0	440.0	378.7	358.1	352.2
67.5°	1795.1	888.6	297.5	307.7	341.7	411.0	470.7	417.9	359.3	346.2	339.0
70°	1057.1	556.5	275.7	286.4	316.0	379.9	442.7	393.7	335.1	329.2	319.9
72.5°	491.9	334.8	250.9	261.4	283.8	338.4	406.5	362.0	306.5	293.3	280.8
75°	293.6	244.9	221.6	230.9	246.7	294.2	361.1	329.8	279.3	262.0	248.8
77.5°	219.5	187.3	189.4	199.2	212.1	257.5	319.9	304.4	258.4	244.9	236.0
80°	158.0	142.2	154.4	165.2	178.6	234.2	306.5	281.4	233.6	215.7	207.3
82.5°	105.4	102.2	116.2	127.2	140.4	204.9	287.9	246.4	199.5	176.8	158.3
85°	58.2	61.5	78.3	83.0	94.4	144.3	236.0	198.0	150.2	121.0	115.6
87.5°	24.2	28.4	42.1	40.6	50.2	86.0	155.3	119.5	95.6	71.4	55.6
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)