

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: P648279

Luminaire Tested: **GALN-SA2B-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7515.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

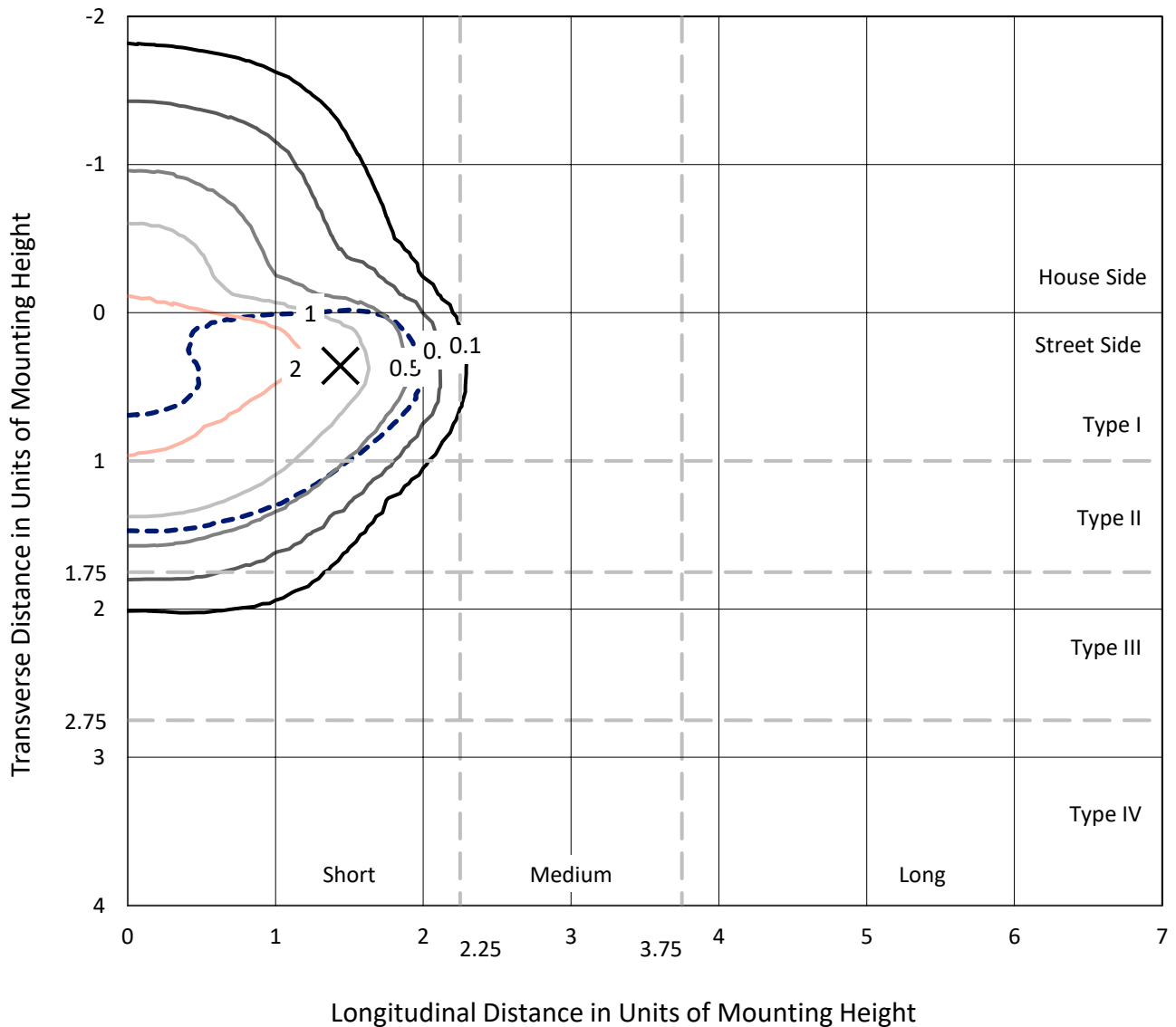
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

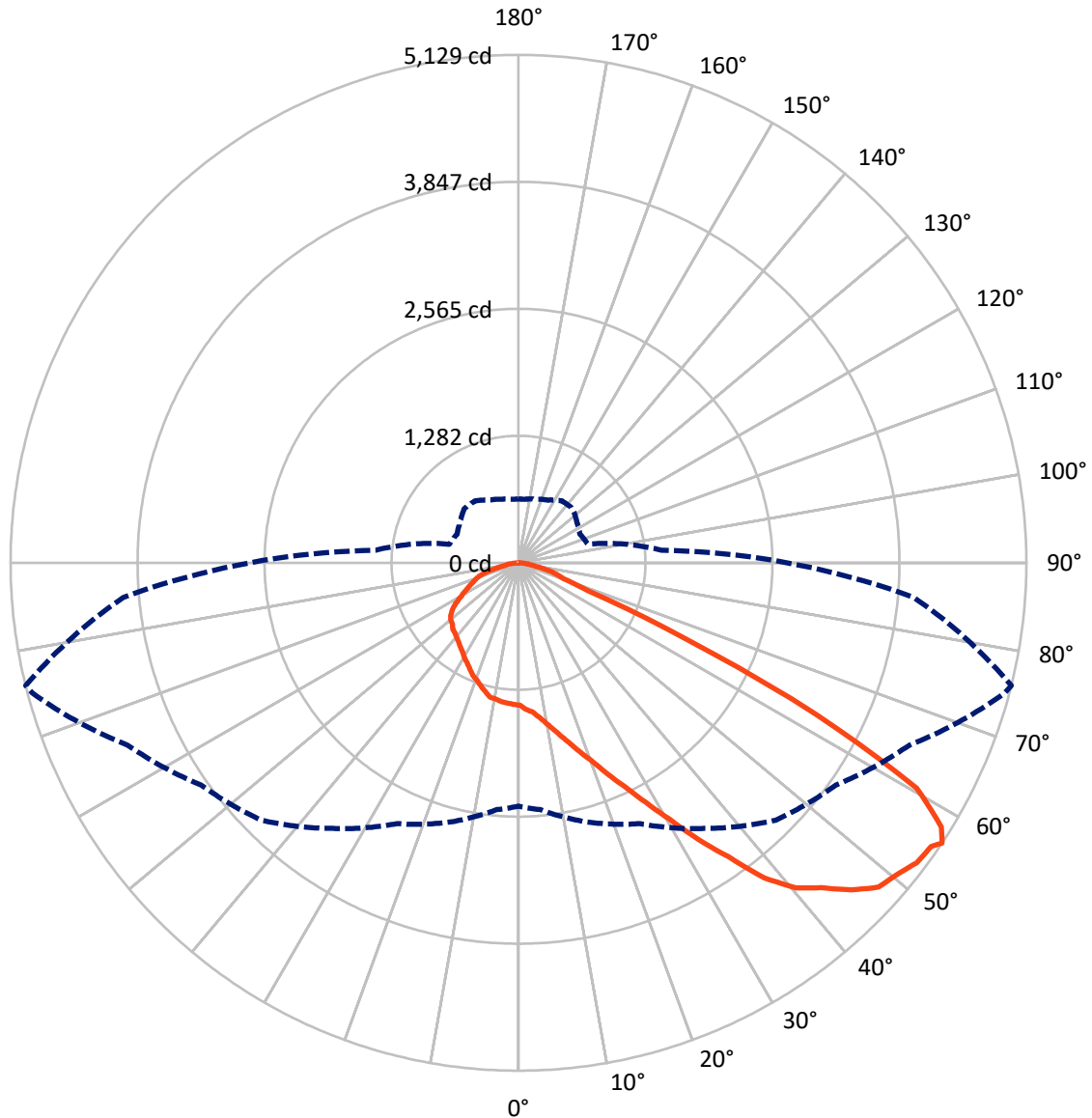
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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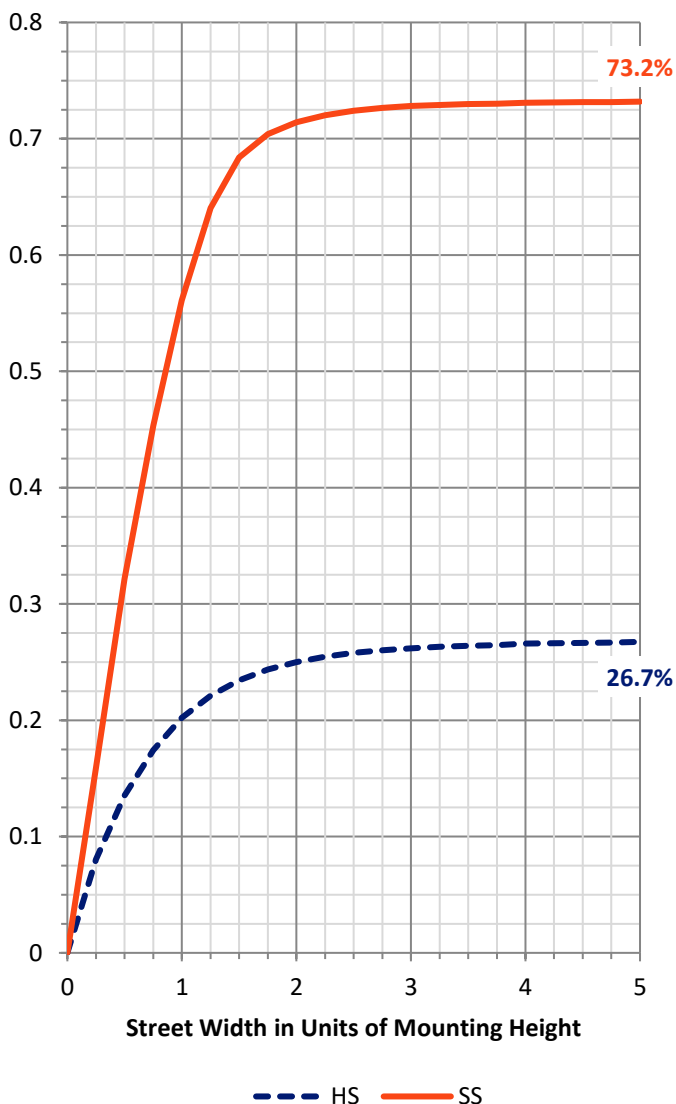
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2020.6	0.0	2020.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	5494.6	0.0	5494.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	7515.2	0.0	7515.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	1.9
10°-20°	448.0	6.0
20°-30°	783.4	10.4
30°-40°	1226.6	16.3
40°-50°	1784.4	23.7
50°-60°	1961.1	26.1
60°-70°	875.4	11.6
70°-80°	252.8	3.4
80°-90°	41.0	0.5
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°	7515.2	100.0
0°-180°	7515.2	100.0

Coefficient of Utilization



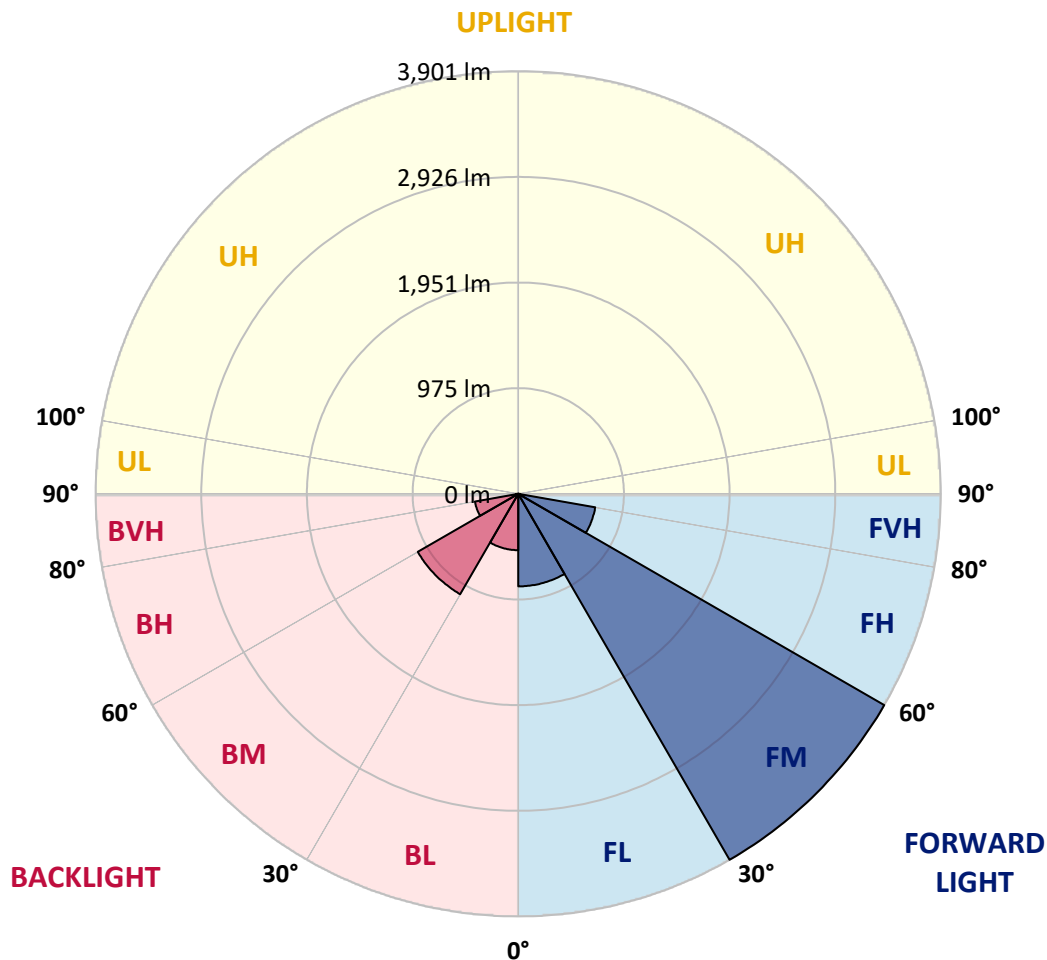
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	854.0	11.4			
FM (30°-60°)	3901.3	51.9			
FH (60°-80°)	721.6	9.6			G1/1800
FVH (80°-90°)	17.7	0.2			G1/100
BL (0°-30°)	519.9	6.9	B2/1000		
BM (30°-60°)	1070.8	14.2	B2/2500		
BH (60°-80°)	406.6	5.4	B1/500		G1/500
BVH (80°-90°)	23.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0
2.5°	1584.1	1558.7	1556.8	1549.9	1553.9	1536.3	1517.8	1493.5	1468.1	1483.7	1446.7
5°	1695.1	1661.1	1674.7	1651.3	1654.2	1630.8	1592.9	1564.6	1533.4	1514.9	1488.6
7.5°	1734.1	1737.0	1746.8	1742.9	1723.4	1723.4	1698.1	1648.4	1593.8	1583.1	1539.3
10°	1786.7	1787.7	1776.9	1779.9	1807.2	1794.5	1772.1	1750.6	1680.6	1667.9	1590.0
12.5°	1805.2	1787.7	1805.2	1820.8	1853.0	1870.5	1865.7	1850.1	1775.1	1766.3	1652.3
15°	1808.2	1797.5	1812.0	1847.1	1875.4	1949.4	1986.4	1975.7	1876.3	1877.3	1722.4
17.5°	1794.5	1809.1	1815.0	1845.1	1910.4	1979.6	2086.8	2101.4	2019.5	2006.9	1811.1
20°	1813.0	1802.3	1810.1	1837.4	1924.1	2032.2	2172.5	2269.0	2154.0	2145.3	1902.6
22.5°	1884.1	1869.5	1867.6	1885.1	1947.5	2059.5	2263.1	2436.5	2317.7	2322.5	2016.6
25°	1939.6	1947.5	1940.7	1939.6	1978.6	2100.4	2382.9	2636.2	2539.8	2511.6	2151.1
27.5°	2035.2	2053.7	2040.0	2058.5	2049.7	2161.8	2468.6	2857.4	2779.4	2741.4	2272.8
30°	2167.7	2177.4	2164.7	2164.7	2138.4	2247.5	2546.6	3088.2	3056.1	3004.4	2416.0
32.5°	2342.0	2356.6	2331.3	2316.7	2312.8	2375.2	2686.9	3316.2	3370.8	3327.0	2606.1
35°	2572.9	2564.2	2533.9	2520.3	2467.7	2571.0	2895.4	3578.3	3721.5	3643.5	2835.9
37.5°	2776.5	2762.9	2760.9	2684.9	2697.6	2782.4	3072.6	3777.0	4061.5	4039.1	3078.5
40°	2966.5	2979.2	2999.6	2956.8	2937.3	3030.8	3279.2	3929.0	4325.5	4316.8	3265.6
42.5°	3170.1	3158.4	3194.5	3158.4	3129.2	3261.7	3503.3	4034.3	4557.4	4485.3	3461.4
45°	3465.3	3428.3	3440.9	3443.9	3422.4	3471.1	3595.8	4110.2	4720.1	4712.3	3604.6
47.5°	3711.7	3712.8	3691.3	3674.8	3609.5	3658.2	3699.1	4158.0	4907.1	4894.5	3660.1
50°	3803.3	3790.7	3853.1	3889.1	3893.0	3793.6	3779.9	4184.3	5005.6	4950.0	3715.6
52.5°	3474.1	3485.8	3584.1	3798.5	3922.2	3932.9	3874.4	4238.8	5045.5	5033.8	3760.5
55°	2796.0	2852.5	3014.2	3261.7	3554.9	3877.4	3976.8	4295.3	5066.9	5057.2	3959.2
56°	2457.9	2501.8	2712.2	2906.1	3274.3	3675.7	3912.4	4355.8	5083.5	5129.3	4006.0
57.5°	1978.6	2029.3	2180.3	2400.4	2835.0	3291.9	3735.1	4281.7	5019.2	5036.7	4040.0
60°	1237.2	1242.2	1423.3	1568.5	1874.4	2320.6	2850.6	3725.4	4645.1	4619.7	3629.0
62.5°	811.5	812.5	977.1	1096.0	1235.3	1337.6	1677.6	2470.6	3427.3	3382.5	2583.6
65°	569.9	582.6	710.2	869.0	925.5	871.9	861.2	1302.5	1914.4	1850.1	1388.3
67.5°	416.9	418.0	531.0	701.4	783.2	663.4	538.7	636.2	757.9	756.0	643.0
70°	275.7	287.4	374.1	524.1	617.6	532.9	440.4	454.9	482.2	482.2	478.3
72.5°	160.7	171.5	228.9	332.2	346.8	333.2	348.7	389.7	407.2	406.2	401.4
75°	91.6	96.5	109.2	138.4	172.4	203.6	256.2	295.2	312.7	323.5	310.8
77.5°	53.6	56.5	64.3	78.9	89.7	110.1	139.3	166.6	190.0	187.1	189.0
80°	28.3	28.3	36.0	46.7	62.3	77.9	92.6	108.1	120.8	123.7	126.6
82.5°	16.6	17.5	23.4	34.1	44.8	55.5	71.1	81.8	93.5	94.5	96.5
85°	8.8	9.7	14.6	22.4	30.2	34.1	35.1	33.1	36.0	34.1	39.0
87.5°	2.9	2.9	4.9	3.9	3.9	4.9	5.9	5.9	7.8	7.8	7.8
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°	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0	1438.0
2.5°	1445.7	1445.7	1429.2	1398.0	1393.1	1380.4	1368.8	1367.8	1359.1	1351.2	1347.3
5°	1473.0	1442.8	1418.5	1390.2	1357.1	1341.5	1324.0	1304.5	1296.6	1304.5	1303.5
7.5°	1504.2	1478.9	1405.8	1353.2	1315.2	1299.6	1280.1	1259.7	1261.6	1261.6	1247.9
10°	1534.4	1500.3	1383.4	1316.1	1260.6	1249.0	1238.2	1246.0	1255.8	1257.7	1249.0
12.5°	1585.0	1508.1	1372.7	1279.1	1244.1	1218.7	1225.6	1247.0	1267.4	1261.6	1268.5
15°	1623.1	1514.9	1324.0	1241.1	1197.3	1209.0	1233.4	1247.9	1282.1	1278.2	1285.0
17.5°	1660.0	1518.8	1276.2	1190.5	1172.0	1204.1	1222.7	1264.5	1275.3	1298.6	1307.4
20°	1736.1	1526.6	1227.5	1159.3	1153.4	1190.5	1222.7	1242.2	1265.5	1286.0	1286.0
22.5°	1775.1	1522.7	1195.3	1118.4	1136.9	1160.3	1189.5	1222.7	1222.7	1242.2	1243.1
25°	1823.8	1507.1	1144.7	1098.9	1112.6	1135.0	1168.1	1156.4	1169.1	1169.1	1184.7
27.5°	1879.3	1474.0	1100.9	1063.9	1091.1	1115.5	1120.3	1112.6	1097.9	1096.0	1090.2
30°	1924.1	1433.0	1068.7	1052.1	1074.6	1088.2	1072.6	1056.0	1030.7	1028.8	1015.2
32.5°	1985.5	1382.4	1028.8	1022.9	1048.3	1049.2	1044.4	1019.0	982.0	966.5	950.8
35°	2088.7	1353.2	998.6	1007.3	1015.2	1012.2	1003.4	976.2	939.1	932.3	926.4
37.5°	2164.7	1331.7	967.4	978.1	984.9	988.9	962.5	932.3	933.3	919.6	915.8
40°	2250.4	1318.1	942.1	947.0	947.9	960.6	928.4	913.8	920.7	911.9	917.7
42.5°	2360.5	1322.0	915.8	911.9	930.4	925.5	909.9	890.4	894.3	868.0	871.9
45°	2419.0	1348.3	900.2	882.7	903.1	902.1	881.7	863.2	839.8	789.1	791.1
47.5°	2457.9	1355.1	863.2	851.4	872.9	885.6	862.2	819.3	786.2	750.1	741.3
50°	2497.9	1367.8	845.6	821.3	830.1	860.2	831.0	790.1	757.9	725.8	730.7
52.5°	2532.9	1392.2	811.5	775.5	791.1	824.2	808.6	758.9	723.8	697.6	689.7
55°	2688.8	1446.7	754.0	707.3	744.3	786.2	777.4	717.0	679.0	665.4	663.4
56°	2713.2	1448.6	723.8	683.9	718.0	773.5	762.8	698.5	664.5	643.0	643.9
57.5°	2717.1	1425.3	681.0	662.5	691.7	755.0	741.3	683.9	637.1	617.6	611.8
60°	2390.7	1112.6	627.4	615.7	649.8	698.5	693.7	643.9	591.3	568.9	579.7
62.5°	1629.9	815.4	585.5	583.6	601.1	648.8	636.2	591.3	547.5	532.9	526.1
65°	948.9	618.6	544.6	536.8	551.4	576.8	585.5	538.7	493.0	483.2	480.3
67.5°	560.2	511.5	492.0	479.4	474.4	490.0	496.8	469.6	423.8	410.1	421.8
70°	468.6	454.9	455.9	434.5	422.8	412.1	406.2	381.9	343.9	326.4	321.5
72.5°	404.3	398.5	394.6	375.1	364.3	340.0	314.7	290.3	262.1	247.4	248.4
75°	308.8	306.9	308.8	299.1	280.5	261.1	237.7	206.6	185.1	166.6	170.5
77.5°	184.2	190.0	192.9	189.0	181.2	163.6	149.1	128.6	108.1	93.5	91.6
80°	126.6	131.5	136.4	131.5	123.7	111.0	95.4	79.9	65.3	57.5	55.5
82.5°	96.5	101.3	104.2	99.4	89.7	76.0	65.3	54.6	42.8	35.1	33.1
85°	35.1	39.9	39.0	46.7	50.7	48.7	41.9	32.2	24.4	17.5	16.6
87.5°	9.7	8.8	9.7	9.7	9.7	8.8	7.8	7.8	7.8	4.9	3.9
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)