

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: P318516

Luminaire Tested: **GLEON-SA2B-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
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-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8597 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

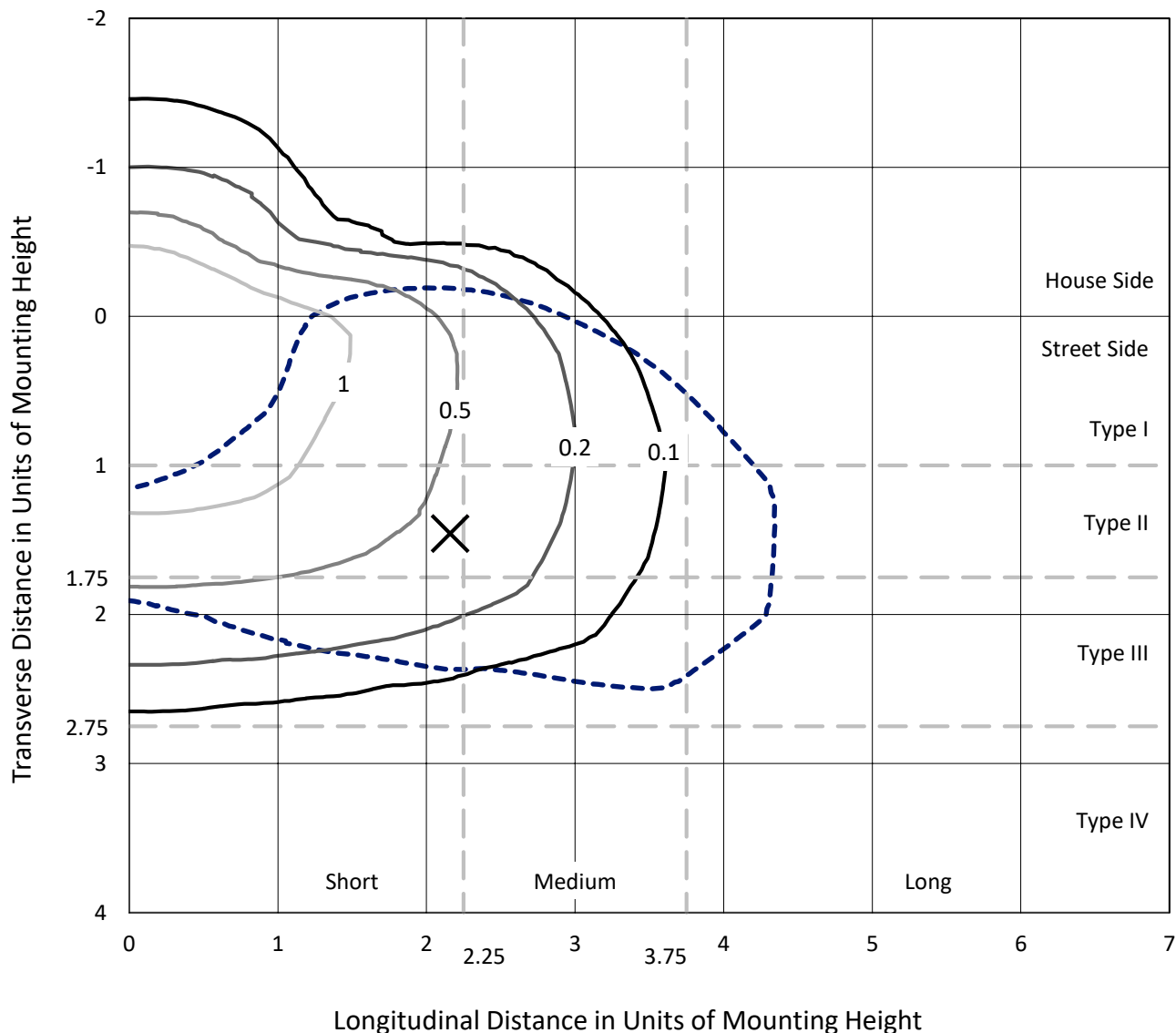
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

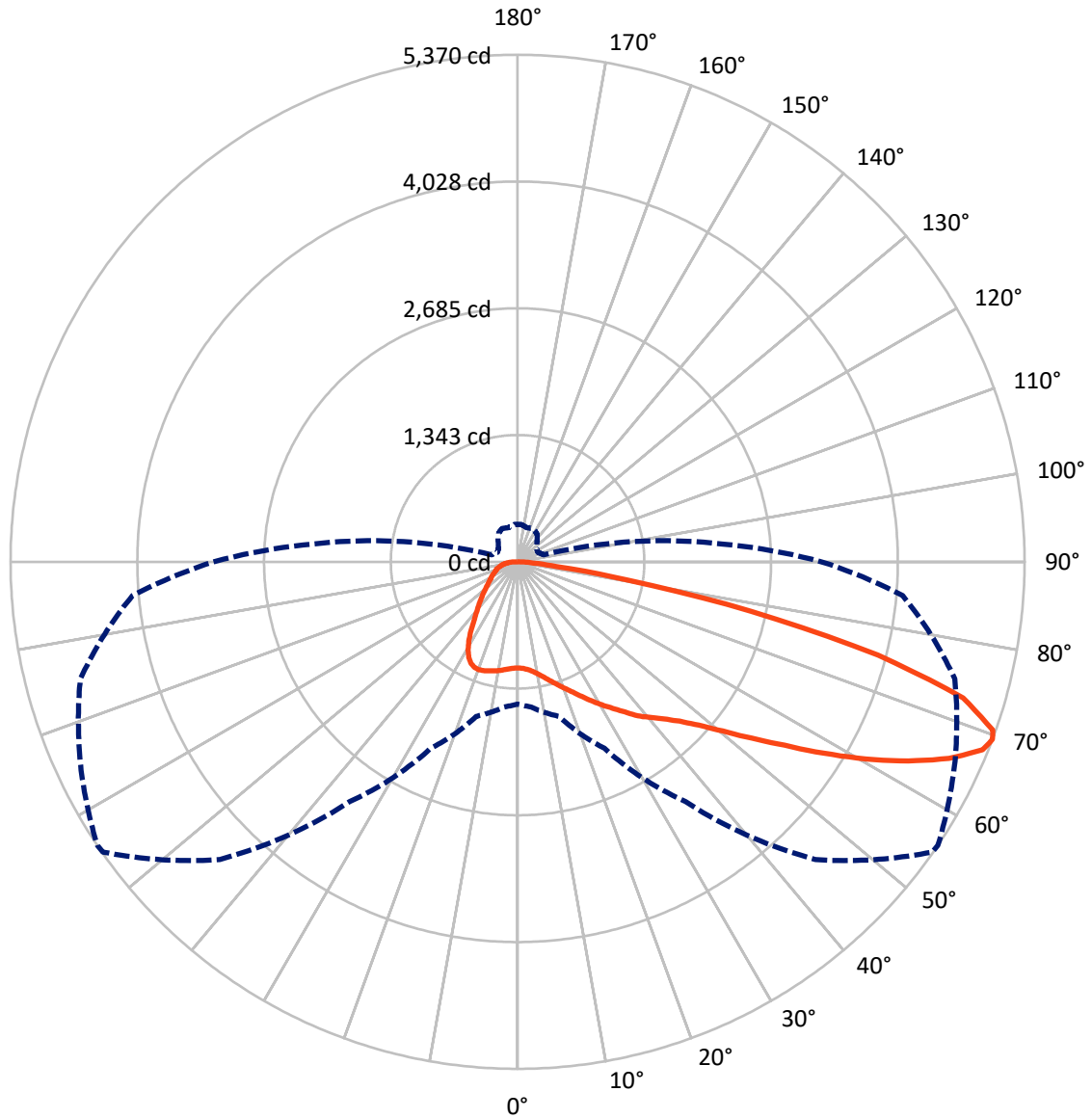
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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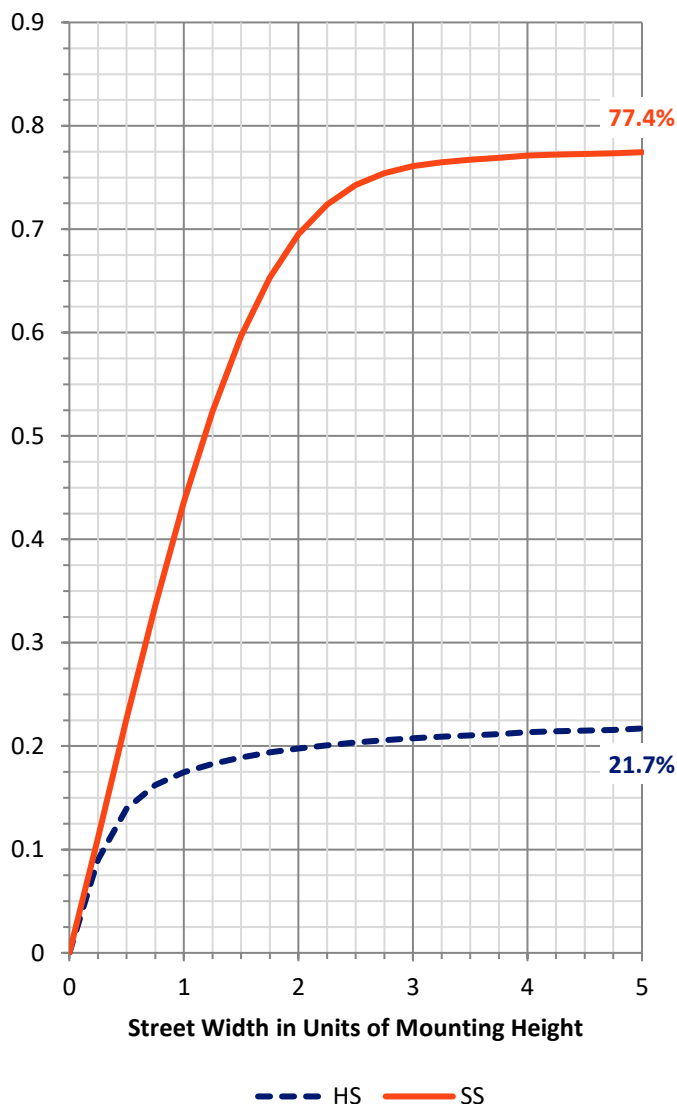
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1914.5	0.0	1914.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	6682.5	0.0	6682.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	8597.0	0.0	8597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	1.3
10°-20°	355.0	4.1
20°-30°	619.6	7.2
30°-40°	890.1	10.4
40°-50°	1231.8	14.3
50°-60°	1804.8	21.0
60°-70°	2200.4	25.6
70°-80°	1216.5	14.2
80°-90°	168.5	2.0
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°	8597.0	100.0
0°-180°	8597.0	100.0

Coefficient of Utilization



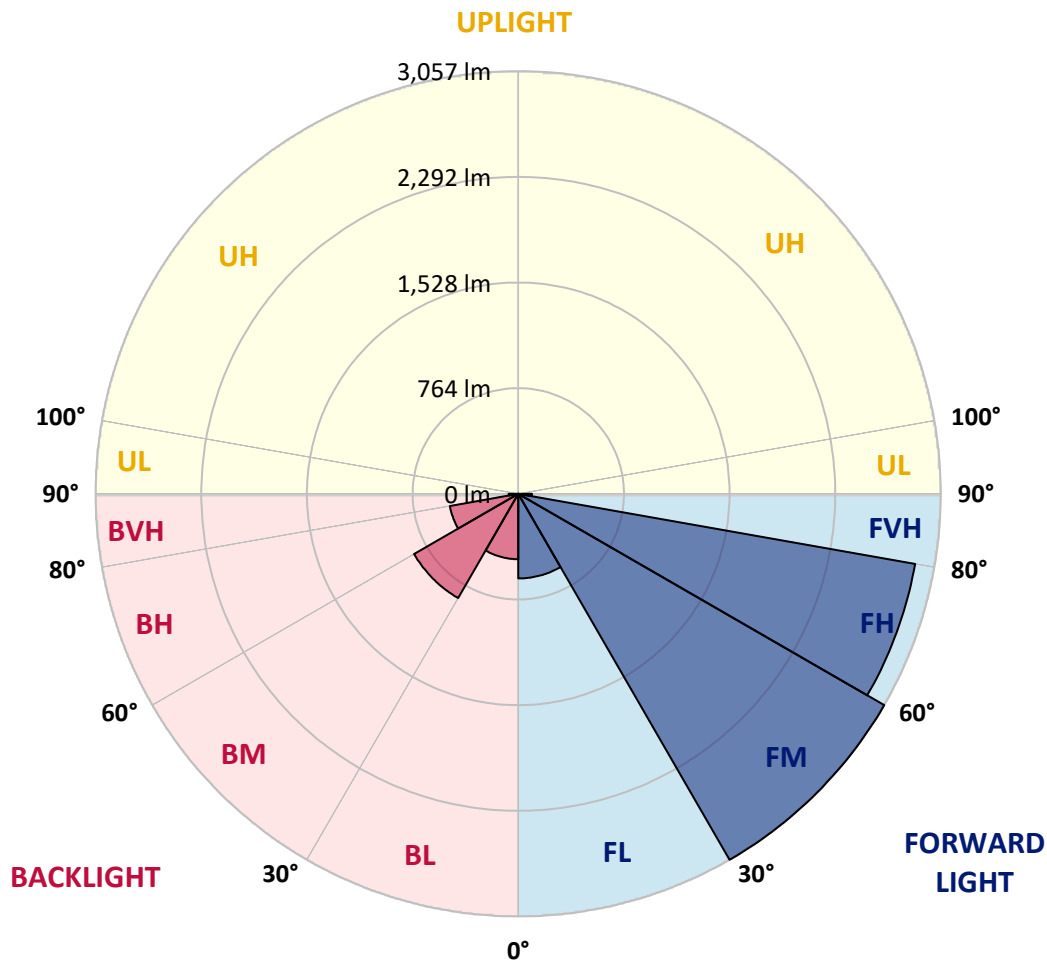
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.9	7.1			
FM (30°-60°)	3056.6	35.6			
FH (60°-80°)	2914.8	33.9			G2/5000
FVH (80°-90°)	99.2	1.2			G1/100
BL (0°-30°)	473.1	5.5	B1/500		
BM (30°-60°)	870.1	10.1	B1/1000		
BH (60°-80°)	502.1	5.8	B2/1000		G2/1000
BVH (80°-90°)	69.2	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9
2.5°	1131.0	1132.2	1131.3	1133.7	1131.0	1132.8	1131.3	1131.3	1130.4	1127.8	1124.8
5°	1148.8	1151.2	1149.7	1152.1	1148.8	1149.4	1146.7	1146.7	1144.1	1138.4	1132.5
7.5°	1176.6	1179.3	1178.1	1180.5	1176.1	1176.1	1172.5	1172.5	1166.9	1157.7	1150.9
10°	1209.8	1213.4	1212.2	1215.7	1212.2	1213.4	1209.8	1209.8	1202.7	1189.7	1181.1
12.5°	1258.1	1262.5	1259.3	1259.0	1257.5	1259.9	1256.9	1256.3	1249.8	1232.0	1220.2
15°	1322.7	1327.4	1320.6	1320.0	1311.7	1310.8	1310.8	1309.9	1305.8	1284.4	1264.9
17.5°	1397.0	1398.5	1392.5	1383.1	1372.4	1365.6	1364.7	1367.1	1367.1	1342.2	1311.1
20°	1469.8	1472.5	1467.8	1457.1	1443.5	1433.4	1426.3	1431.0	1430.8	1401.1	1357.0
22.5°	1549.2	1555.4	1548.3	1534.7	1518.7	1507.5	1495.0	1499.2	1499.5	1463.0	1402.0
25°	1652.0	1646.4	1641.9	1622.7	1599.9	1588.3	1576.8	1580.9	1579.7	1529.7	1448.5
27.5°	1742.9	1744.1	1738.2	1717.7	1691.4	1665.9	1665.3	1668.0	1663.5	1599.0	1492.4
30°	1848.6	1849.2	1840.9	1822.6	1793.8	1761.0	1753.3	1757.7	1748.2	1664.7	1538.6
32.5°	1953.8	1956.7	1947.6	1925.3	1902.2	1862.3	1846.9	1849.8	1826.1	1731.9	1586.2
35°	2045.9	2050.0	2047.1	2032.3	2007.1	1972.7	1954.4	1952.6	1923.3	1814.3	1649.3
37.5°	2139.8	2143.6	2140.4	2127.9	2117.8	2081.4	2071.6	2071.6	2020.7	1898.4	1729.6
40°	2236.3	2242.2	2238.4	2221.2	2212.6	2196.0	2172.6	2167.0	2111.9	1999.4	1860.5
42.5°	2326.0	2333.7	2349.1	2339.1	2321.6	2324.0	2276.9	2273.9	2233.6	2148.6	2024.8
45°	2453.4	2464.6	2490.7	2483.0	2479.5	2466.4	2410.4	2407.8	2392.4	2349.4	2228.9
47.5°	2592.3	2607.7	2654.8	2656.3	2694.5	2669.9	2593.8	2584.6	2588.1	2589.9	2478.0
50°	2720.2	2737.1	2814.4	2850.8	2940.9	2946.2	2824.5	2816.2	2830.1	2871.0	2768.2
52.5°	2822.4	2843.7	2940.3	3052.8	3207.1	3251.0	3108.5	3102.3	3112.6	3183.1	3096.4
55°	2897.3	2920.4	3025.6	3230.5	3476.9	3554.2	3435.5	3429.5	3436.1	3525.8	3453.2
57.5°	2914.8	2920.4	3073.0	3350.2	3704.7	3890.4	3835.6	3823.7	3791.7	3869.9	3847.1
60°	2832.8	2855.3	3033.9	3392.2	3880.9	4221.8	4253.8	4238.9	4149.2	4213.2	4194.8
62.5°	2666.3	2706.6	2887.9	3328.2	3949.9	4492.5	4663.9	4646.2	4491.6	4533.0	4444.8
65°	2394.5	2411.6	2602.1	3107.6	3862.2	4665.7	5029.7	5020.8	4826.2	4761.4	4491.0
67.5°	1908.2	1940.4	2102.1	2646.5	3503.6	4645.3	5312.5	5311.6	5044.8	4846.1	4327.2
69°	1507.5	1540.9	1694.9	2180.0	3100.2	4458.4	5359.9	5370.3	5106.4	4794.5	4093.2
70°	1201.8	1240.6	1346.3	1836.2	2742.1	4212.0	5320.5	5339.2	5094.5	4709.5	3877.3
72.5°	511.5	542.9	618.1	946.5	1671.2	3145.2	4864.7	4935.2	4820.0	4310.3	3204.5
75°	223.3	233.1	267.1	385.9	741.9	1711.8	3811.0	3941.3	4121.4	3643.4	2387.1
77.5°	163.5	167.6	186.3	226.6	332.9	646.5	2450.7	2526.5	2972.3	2651.2	1464.2
80°	126.5	129.4	143.9	166.4	217.4	261.5	1117.7	1182.9	1671.2	1361.7	609.8
82.5°	100.7	102.8	112.8	122.6	150.2	158.4	371.1	411.7	616.9	376.1	161.4
85°	93.6	96.0	99.5	89.4	96.3	93.0	160.5	167.9	186.3	147.8	67.5
87.5°	42.4	50.1	98.6	69.6	51.2	40.9	65.7	68.7	77.3	77.6	29.9
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°	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9	1123.9
2.5°	1126.6	1125.7	1127.2	1123.6	1128.1	1127.8	1126.3	1126.9	1129.9	1129.6	1129.9
5°	1133.4	1132.8	1134.6	1131.9	1137.3	1139.0	1139.3	1142.0	1145.3	1146.1	1146.1
7.5°	1150.6	1150.6	1151.5	1147.9	1151.5	1151.2	1149.7	1152.4	1155.6	1155.9	1155.6
10°	1180.2	1180.5	1179.0	1169.8	1166.9	1158.9	1151.5	1151.8	1155.9	1159.2	1160.1
12.5°	1217.5	1216.3	1209.8	1192.9	1180.5	1164.2	1156.5	1156.2	1160.4	1163.0	1163.9
15°	1260.2	1256.9	1240.0	1212.5	1190.6	1174.6	1162.1	1159.2	1156.8	1153.8	1154.1
17.5°	1300.4	1293.0	1264.9	1226.7	1203.6	1182.3	1158.3	1139.0	1125.7	1118.0	1115.6
20°	1341.3	1326.8	1286.2	1240.0	1210.7	1171.9	1125.7	1086.6	1062.3	1051.1	1049.0
22.5°	1378.6	1355.2	1306.1	1253.9	1205.1	1137.0	1064.4	1007.5	973.8	958.7	959.9
25°	1415.1	1382.5	1326.8	1263.7	1176.6	1075.4	979.1	909.2	870.1	853.2	852.6
27.5°	1447.0	1410.0	1349.3	1255.7	1123.6	987.7	878.1	810.0	777.4	762.9	760.5
30°	1483.8	1444.7	1379.2	1225.2	1046.0	886.4	779.5	731.5	708.4	693.9	691.2
32.5°	1528.5	1491.8	1403.8	1169.8	946.8	780.7	702.5	669.0	648.0	631.7	628.7
35°	1593.6	1554.0	1410.0	1090.5	837.8	697.2	645.9	611.6	583.1	562.1	560.0
37.5°	1675.4	1631.8	1395.8	987.7	732.1	643.0	598.8	556.5	519.5	489.8	485.1
40°	1793.3	1727.5	1356.4	869.2	654.2	601.2	552.9	504.7	458.8	424.1	417.3
42.5°	1934.8	1839.7	1296.0	751.4	597.1	558.9	507.3	447.5	403.7	379.1	375.5
45°	2114.9	1956.4	1212.2	648.3	540.8	516.5	458.2	403.1	375.8	357.8	354.8
47.5°	2320.4	2087.3	1124.2	564.5	493.1	476.8	418.8	383.2	361.6	347.4	344.7
50°	2573.0	2235.1	1030.9	495.8	445.1	429.1	400.1	372.3	355.1	344.1	341.5
52.5°	2857.9	2401.9	963.7	441.6	405.4	393.9	390.3	366.4	352.4	344.1	341.5
55°	3164.8	2571.6	891.1	396.0	371.1	374.3	383.8	366.9	357.5	347.4	343.5
57.5°	3471.9	2746.9	810.3	357.5	343.8	359.8	379.4	368.1	360.1	350.4	346.8
60°	3714.7	2857.9	685.0	325.2	322.2	343.8	368.7	359.2	348.9	349.2	348.6
62.5°	3828.2	2852.0	546.7	296.5	300.6	322.2	351.5	345.3	336.7	348.3	349.2
65°	3764.5	2709.9	425.6	270.4	277.5	299.7	333.8	338.5	341.5	363.7	366.6
67.5°	3497.4	2433.3	329.6	247.6	256.5	284.3	335.5	368.7	372.6	396.0	395.7
69°	3221.0	2173.8	286.4	235.7	246.1	288.2	358.7	388.0	373.5	398.3	394.8
70°	2989.4	1968.6	263.3	227.7	241.4	295.0	374.1	387.7	369.0	390.3	384.4
72.5°	2302.4	1416.2	223.3	212.9	225.4	282.2	378.5	379.1	358.7	362.8	352.7
75°	1579.1	895.0	194.9	192.8	201.1	254.4	364.3	362.2	331.7	325.8	317.5
77.5°	870.7	454.6	165.6	173.5	179.2	225.4	331.1	328.1	303.0	290.5	287.6
80°	335.8	199.0	139.8	154.3	157.9	195.2	290.2	287.6	266.5	250.6	246.1
82.5°	126.8	104.2	115.5	133.6	132.4	161.1	245.8	244.3	223.9	200.5	193.4
85°	58.6	62.5	91.5	110.2	101.6	119.4	196.7	199.3	174.4	146.6	146.6
87.5°	24.9	34.9	64.9	83.2	68.4	80.6	144.2	137.7	126.5	87.7	82.3
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)